Compendium of

47th Series

SPP : 2023-24







Student Project Programme





Supported by

Department of Science and Technology, Government of India
Department of Science and Technology, Government of Karnataka
Karnataka State Bioenergy Development Board, Government of Karnataka
AI and Robotics Technology Park (ART-Park), Indian Institute of Science

Karnataka State Council for Science and Technology
Indian Institute of Science Campus, Bengaluru

Compendium of the 47th Series
Student Project Program: 2023 - 2024

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September 2024

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A book on Compendium of the 47th series Student Project Programme 2023 - 2024 published by the Secretary, Karnataka State Council for Science and Technology (KSCST), Indian Institute of Science Campus, Bengaluru - 560012.

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Cover page Design: Ms. Ramyashree M. K.

Book Size: A4

No. of Pages: iv + 266

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Published by:
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Catalyzed and supported by:
Department of Science and Technology, Government of India
Department of Science and Technology, Government of Karnataka
Karnataka State Bioenergy Development Board, Government of Karnataka
AI and Robotics Technology Park (ART-Park), Indian Institute of Science

CONTENTS

1. Compendium of the 47th Series Student Project Programme 1
2. About Karnataka State Council for Science and Technology 2 - 4
3. Report on 47th Series of Student Project Programme (SPP) 5 - 33
4. Experts involved in 47th series SPP 34 - 36
5. Synopsis - Awarded projects 37 – 146
6. Technical Talk 147 – 148
7. Technical Lectures Organised during Seminar and Exhibition in the previous series of Student Project Programme 149
8. Annexure I - List of projects sanctioned under 47th Series of Student Projects Programme: 2023-24 150 - 254
9. Annexure II - List of projects awarded under the 47th Series of Student Project Programme: 2023-24 255 – 263
10. Annexure III - Institutions Recognized with the "Best Performing College of the Year Award" 264
11. Annexure IV - Chronology of SPP Seminar (Presently Poster Presentation) and Exhibition 265 - 266

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Compendium of the 47th Series
Student Project Program: 2023 - 2024

Overview

The **Compendium of the 47th Series Student Project Program** outlines the framework, objectives, and key components of student projects for the academic year **2023 - 2024**. This program aims to foster creativity, critical thinking, and practical application of knowledge among students.

Key Components

1. Program Objectives

- **Enhance Learning**: Promote experiential learning through hands-on projects.
- **Skill Development**: Equip students with essential skills such as teamwork, research, and problem-solving.
- **Innovation**: Encourage innovative thinking and solutions to real-world problems.

2. Project Categories

- **Research Projects**: In-depth studies on relevant topics.
- **Community Service Projects**: Initiatives aimed at benefiting local communities.
- **Technology Projects**: Development of tech-based solutions or applications.

3. Guidelines for Participants

- **Eligibility**: Open to all students enrolled in the program in the state of Karnataka.
- **Team Formation**: Teams can consist of up to 4 members.
- **Project Submission**: Project proposals must be submitted by February 2024.
- **Evaluation Criteria**:
    - Originality and creativity
    - Research and analysis
    - Presentation and clarity
    - Applicability, Impact and feasibility

4. Timeline

Milestone	Date / Month
Program Launch	**October 2023**
Proposal Submission Deadline	**20th February 2024**
Project Development Period	**February - June 2024**
Mid-term Evaluation of sanctioned projects	**May - June 2024**
Selection of projects for State-Level Poster Presentation & Exhibition	**June 2024**
Final Submission of Project Completion Reports Deadline	**July 2024**
Annual State-Level Poster Presentation and Exhibition	**9-10 August 2024**

5. Awards and Recognition

- **Best Project Award**: For outstanding projects in each category.
- **Certificates of Participation**: All participants will receive certificates.

Conclusion

The **47th Series Student Project Program for 2023 - 2024** aims to inspire and engage students through meaningful projects that contribute to their academic growth and community development. It is an excellent opportunity to apply knowledge and skills in practical settings while fostering collaboration and creativity.

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Secretary: Prof. Ashok M. Raichur, Professor, Materials Engineering, IISc

Executive Secretary: Dr. U. T. Vijay



Karnataka State Council for Science and Technology (KSCST) an autonomous S&T organization under Department of Science & Technology, Government of Karnataka established in the year 1975 is one of the first State S&T Councils to be set up in the country. Education, Water, Energy, Housing, Geospatial Technologies, Natural Resource Management are some of the sectors identified by KSCST to pursue research, development and dissemination of ideas, products, services and technologies with the support of State and Central government. During the last 47 years of its existence, KSCST has been pro-actively engaging itself to identify, propose and implement S&T based solutions to locale specific needs / problems. In association with the Indian Institute of Science and several other premier R&D institutions, KSCST has been executing many projects and programs aimed at improving socio-economic conditions of the people of the state.

Over the years, a number of technologies have been translated from research and demonstration phase to the implementation and operational phase. KSCST provides support to the State Government in formulation of S&T based policies. Also supports Central and State Governments in scientific surveys, project implementation, evaluation, co-ordination & monitoring, organization of scientific meets and awareness campaigns.

MAJOR PROGRAMMES

- **Natural Resources Data Management System (NRDMS**) - A Repository of Natural Resources and Socio-economic geo-database to support local level planning. Developed guidelines for generating village cadaster using high resolution satellite imageries. First state to generate Geospatial Action Plan for line departments and use of Geospatial Technologies for Preparation of Action Plan made mandatory. Support to urban/rural local bodies in developmental planning for informed decision-making and support to COVID management. Developed webapps for several GIS applications.

- **Karnataka State Spatial Data Infrastructure (KSSDI):** KSSDI is a web portal to find and access spatial information/services via the Internet. Assisted in establishing National Data Registry.
- **Academic and Industry Interaction Cell (AIIC)** – Under Student Project Program (SPP), supporting and mentoring innovative under-graduate and post-graduate engineering student projects. Supported more than 16,800 projects so far. More than 100 projects commercialized. Established E-learning centers in government high schools to improve access to advanced educational resources, digital contents and lab experiments in the form of 3D animations using latest IT gadgets & internet. Support to faculty projects to develop innovative products & services. Science popularization / Communication / Teachers Enrichment programs; Science radio serial; National Science Day / National Mathematics Day
- **Rainwater Harvesting (RWH)** - End-to-end solution on RWH including awareness and technical support, implementation, preparation of DPR and support to enforcement. Has a patent on RWH and assisted state government in drafting RWH policy and guidelines Installations of more than 1.75 lakhs RWH structures for Institutions and Residence in Bangalore. Supporting urban local bodies in implementing RWH system in their buildings.
- **Digital Heritage -** Laser scanning of state archaeological sites and Hampi World Heritage site for creating virtual walk through and reconstruction/restoration. Mapping of all the state archaeological sites is in process.
- Geospatial mapping of **Traditional Surface Water Bodies** for restoration and rejuvenation. Mapped over 13,000 Traditional Surface Water Bodies across Karnataka, which includes Kalyani, Kunte, Gokatte and Katte**.** Based on the reports state government is taking up restoration works of surface water bodies under Jal Shakti Abhiyan and MGNREGA programs.
- **Energy Cell** – Demonstration and dissemination of new technologies, workshops, techno-economic feasibility reports and energy conservation & management including bio-energy. Providing detailed project reports to government institutions.
- **Housing** - Research, development & dissemination of energy efficient building technologies. Over 1 lakh houses built in India and over 20,000 houses built in Bengaluru using cost- effective energy efficient building technologies. Organizing training programs to engineers and architects.
- **Patent Information Centre** - Promotion, protection and commercialization of Intellectual Property Rights of inventors and creators. Established over 55 IP cells in engineering and degree colleges/institutions to encourage faculty, students, start-ups and entrepreneurs. Supported filing more than 100 patents, designs, copyrights and trademarks.
- **State Awards for Scientists and Engineers** - Recognize and reward Scientific and Technological eminence in the state. Instituted by Government of Karnataka.

- **Established SC/ST cell** to promote adaptation of appropriate and relevant technologies for socioeconomic development of SC/ST and marginalized communities by assessing natural & human resource endowment, upgrading skills and creation of micro enterprises for sustainable livelihoods. Developed a tool to identify local specific training and skill building programs for improved livelihood and development of micro enterprises.
- **Establishing SHG/FPO enterprises** to address malnutrition, provide rural livelihoods and to reduce the fruit and vegetable spoilage and post-harvest losses because of lack of primary processing facilities by adopting fuel-efficient biomass dryers in Yadgir District of Karnataka. Envisaged to produce variety of nutrition products to address malnutrition specifically among children and women.

* ~ * ~ *

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru - 560012

REPORT ON 47th SERIES OF STUDENT PROJECT PROGRAMME (SPP)

STUDENT PROJECT PROGRAMME (SPP)

KSCST initiated Student Project Programme (SPP) during 1978–79 to support innovative engineering student projects to improve the quality of education in technical institutions. The SPP program has been playing a very important role in engineering education for the last forty-five years and has become a flagship program of the Council. Products, Services, Innovation and technologies are needed for self-reliance, sustainable development and livelihoods.

The main purpose of this program is to bring out the hidden talent and innovative spirit of young engineers graduating from colleges across the State. Under this program, the Council has been providing both technical and financial support to selected projects undertaken by the final year students of science and engineering colleges across the State. KSCST has been playing a crucial role in building confidence and enhancing the capabilities of engineers graduating from the colleges in the State. So far KSCST has conducted 47 series of uninterrupted events under SPP and since inception supported more than 16,800 projects of engineering and science students.

Many projects, sponsored under this program, deal with technology applications relevant to the State. This process has been ably supported by more than hundred faculty and scientists of Indian Institute of Science (IISc), National Aerospace Laboratories (NAL), Central Manufacturing Technology Institute (CMTI), Karnataka State Council for Science and Technology (KSCST) and experts from various other research institutions and government departments. The Student Project Program of KSCST has attracted the attention of various incubation centers of engineering colleges, start-ups and technologists in the country.

The work discipline acquired by students in evolving and executing their projects, improves their analytical method and technical capabilities enabling better performance as professionals. The sponsorship, by Karnataka State Council for Science & Technology, has become a benchmark of quality for engineering student projects and these projects have been recognized and valued by both academic and industrial communities.

In this program, several completed projects have also been identified as promising and having commercial potential. Concerned faculty/students of such projects are encouraged to go ahead for further modification wherever required and to take-up field trials or for scaling up. Projects have always been diverse, reflecting the varied interests of the students/guides and some of them are found to be very innovative.

47th Series of Student Project Programme (SPP):

KSCST had invited project proposals from final year students of science and engineering colleges across the State. As per the recommendations of the expert committee, project proposals were invited during November 2023 from the final year BE, B. Arch., M.Tech., M.Sc., M.Tech., / M.Sc., (Agriculture), MBA & MCA students for sponsorship, under the 47th series of Student Project Programme (SPP).

The following are the broad themes/areas provided by the expert committee for submitting the project proposal:

1. Structural Engineering, Geotechnical Engineering, Geomatics, Construction Technology and Management
2. Water and Environment Engineering, Transportation Engineering, Industrial and System Engineering
3. Energy Engineering, Energy for Sustainable Development, Waste Management
4. Data Science, Cyber Security, Computing, Pattern Recognition and Image Processing, Signal Processing
5. Big Data, integrating Internet of Things, Artificial Intelligence and Data Engineering (agriculture, health, education, digital literacy)
6. Networking and Communication Engineering, Embedded Systems, VLSI Design, Robotics
7. Power System Engineering, Electric Vehicles, Smart Grid Technologies and Micro-grids
8. Materials and Design Engineering, Thermal and Fluid Engineering, Manufacturing Processes and Analysis
9. Control and Automation, Biomedical Engineering, Sensors and Measurement Techniques
10. Rural Engineering and Technical support, Smart cities and infrastructure development
11. Biological / Medical Science, Physical Science, Chemical Science, Agriculture Science, Biotechnology
12. Healthcare management, Information Technology, Resources and Environmental Management.

In response, KSCST received a total of 6043 project proposals covering these themes as advertised on their website and SPP posters. For the 47th Series of SPP, 201 engineering colleges, universities, and institutions statewide participated and submitted project proposals for consideration. These proposals underwent evaluation by experts from institutions such as the Indian Institute of Science (IISc), National Aerospace Laboratories (NAL), Central Manufacturing Technology Institute (CMTI), Karnataka State Council for Science and Technology (KSCST), and others. Eventually, 1,530 project proposals from 200 institutions across the state were approved for financial support, amounting to Rs. 77,39,550/- (Rupees Seventy-Seven Lakhs Thirty-Nine Thousand Five Hundred and Fifty).

Sl. No.	Course / Degree	Total No. of projects submitted	No. of Projects Approved	Total Amount Sanctioned (Rs.)
1	B.E.	5,340	1,285	64,36,300.00
2	M.B.A	193	63	2,39,250.00
3	M.C.A.	97	33	1,56,500
4	M.Sc	268	106	6,59,500
5	M.Tech	138	41	2,31,500.00
6	M.Tech / M.Sc (Agri)	7	2	16,500.00
	Grand Total	**6,043**	**1,530**	**77,39,550**

Under the 47th Series of SPP, the KSCST approved a total of 1530 projects for sponsorship across 200 institutions. As part of this initiative, KSCST proposed to the AI and Robotics Technology Park at IISc., to provide support for selected projects focused on AI, ML, and robotics from the sanctioned 1530 projects.

After productive discussions and meetings with ART-Park officials, they agreed to fund 124 projects with a budget of Rs. 6,23,500/-. Here are the key details of the projects supported under ART-PARK at IISc:

Key Details of the Projects supported under ART-PARK, IISc:

- Total number of projects : 124
- B.E. : 113 Projects
- M.C.A. : 4 Projects
- M.Sc. : 3 Projects
- M.Tech. : 4 Projects
- Total number of colleges / institutions : 74
- Number of districts covered : 24

Out of the 1530 sanctioned projects, 124 projects received financial support from the AI & Robotics Technology Park (ART-Park) at IISc, amounting to Rs. 6,23,500/-. Additionally, KSCST allocated financial support of Rs. 71,16,050/- to 1406 projects, which includes 57 Biofuel projects supported by the Karnataka State Bioenergy Development Board (KSBDB), GoK, with a budget of Rs. 3,04,000/-.

List of bioenergy projects sanctioned under 47th series SPP

Sl. No.	Course	Selected for midterm evaluation	Sanctioned Amount in Rs.
1.	BE	34	1,89,500
2.	M.Tech	03	19,500
3.	M.Sc.	09	55,000
4.	MBA/MCA	11	40,000
		57	3,04,000

Amount of Rupees Three Lakhs Four Thousand only

As of June 2024, SPP grants were disbursed to 188 out of the 200 approved colleges in four batches. The remaining 12 colleges are pending disbursement of Rs. 2,18,000/- due to non-submission of Utilization Certificates (UC) / Statements of Expenditure (SE) for previous years. Additionally, two institutions have not provided their bank account details.

Mid-term evaluations of the supported projects took place between May and June 2024. 68 online sessions were conducted with the technical support of 41 experts. Out of the 1530 projects scheduled for online evaluation, 111 projects were absent during the mid-term evaluation, while 1419 projects were evaluated.

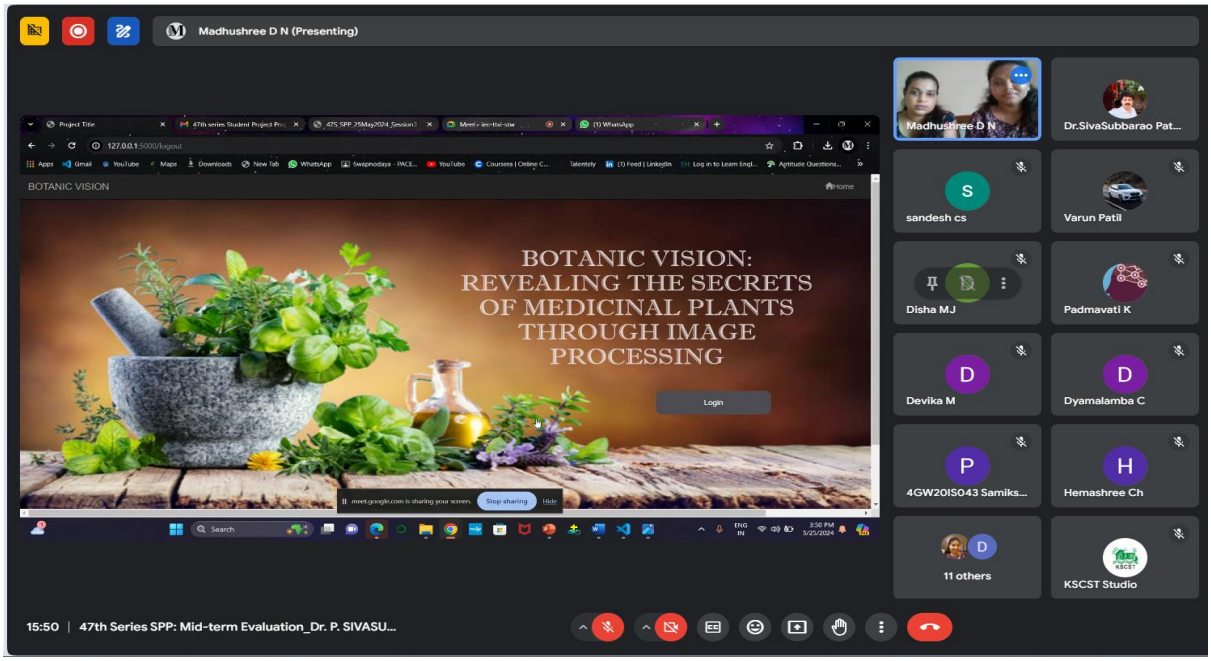
A total of 354 projects have been recommended by subject experts for the Annual State-level Poster Presentation and Exhibition. This selection comprises 153 projects for the Poster Presentation and 201 projects for the Exhibition, involving 142 engineering institutions across the state.

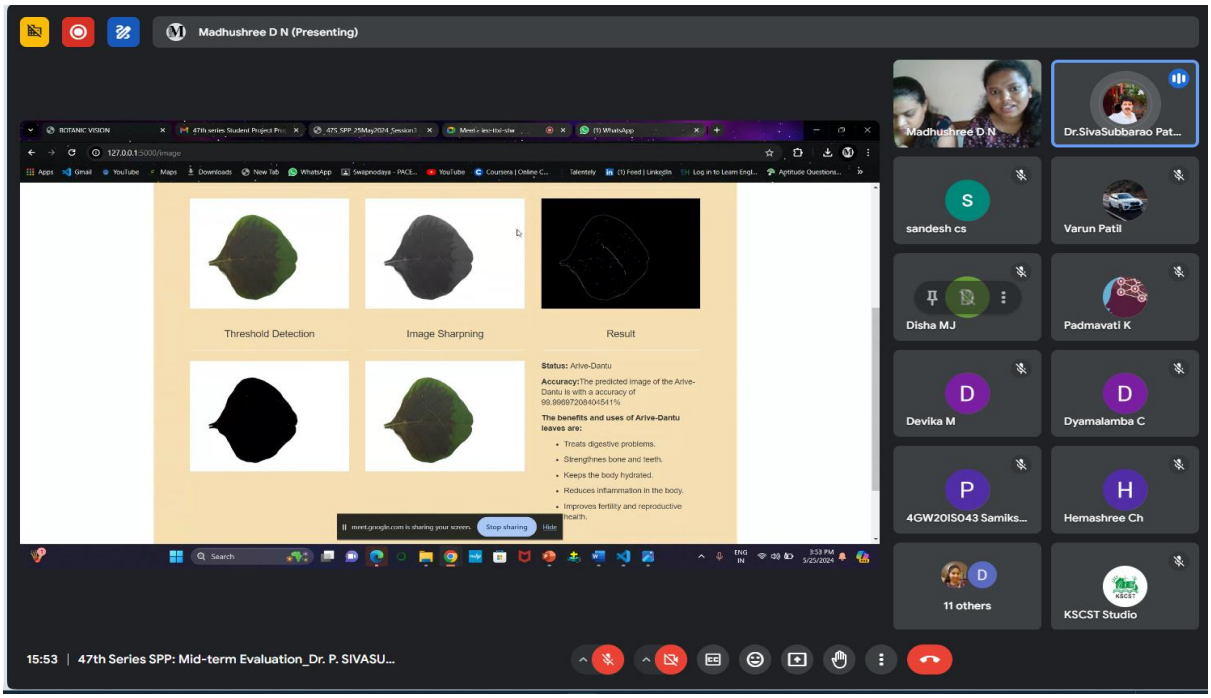
The projects selected for the State-level poster presentation and exhibition include 30 projects supported by ART-Park, IISc. Among these, 8 projects are designated for Poster presentation, while 22 projects are for the Exhibit project.

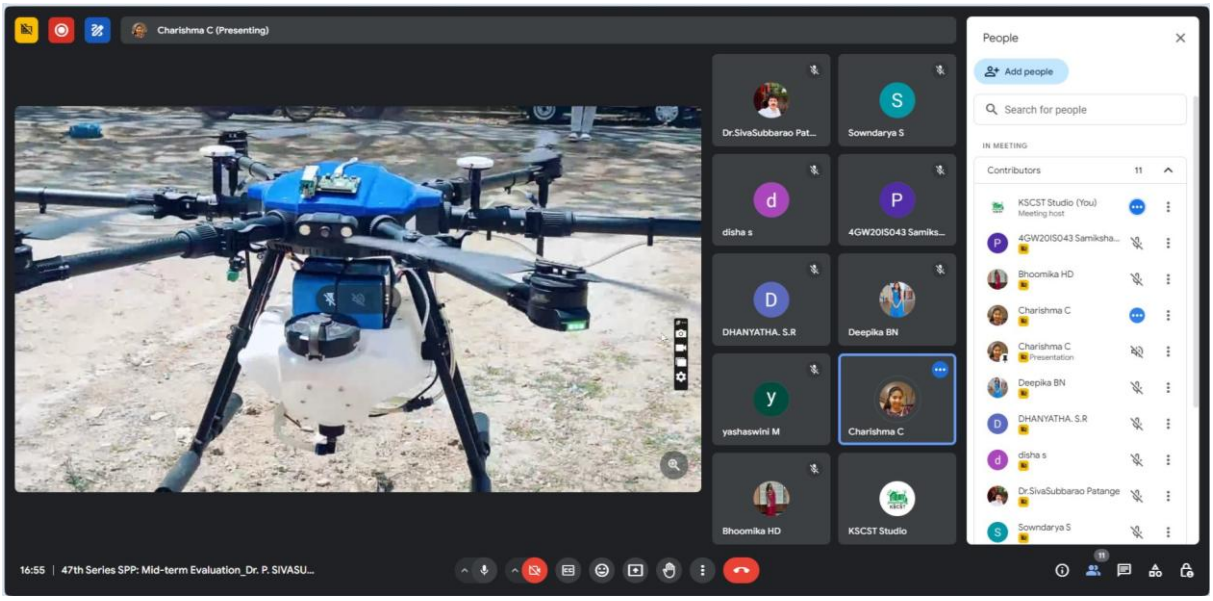
Additionally, for the State-Level Poster Presentation and Exhibition, 15 projects are supported by KSBDB, GoK. Out of these, 10 projects are allocated for Poster presentation, and 5 projects are for the Exhibit project.

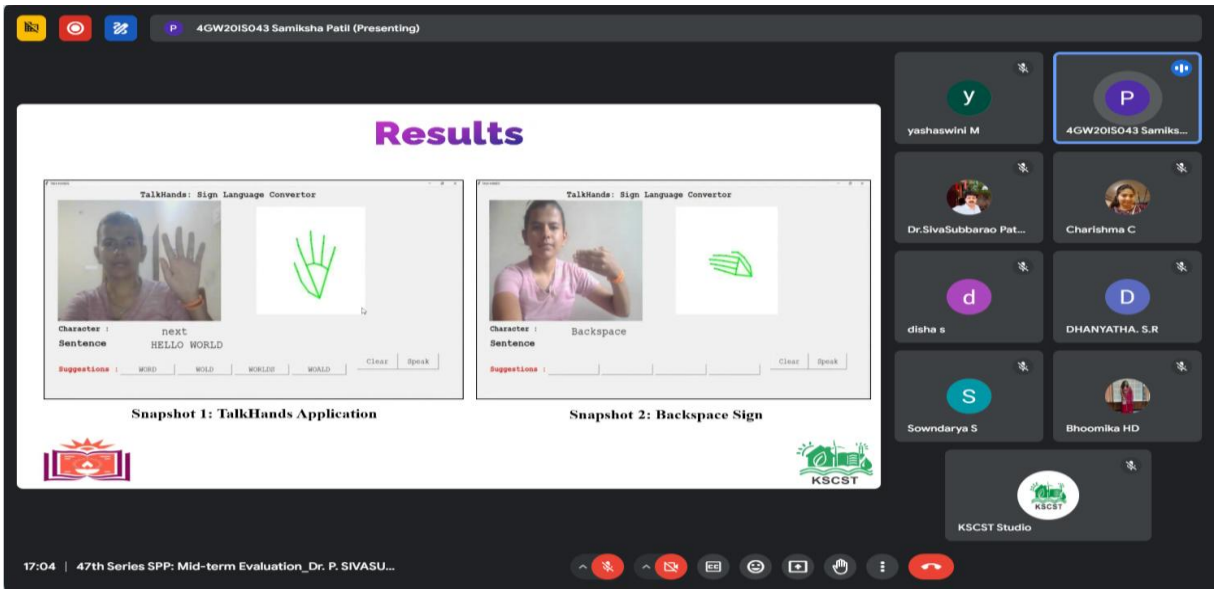
KSCST will be organizing Annual State-Level Poster Presentation and Exhibition of projects at Sharnbasva University, Kalaburagi on 9-10 August 2024.

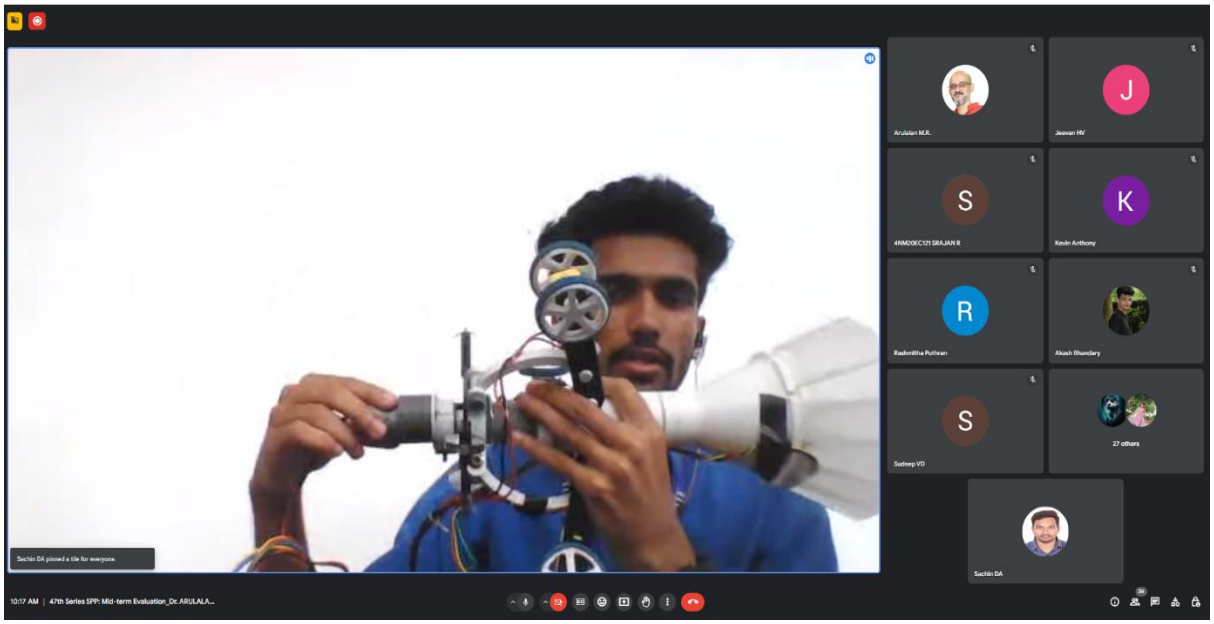
Glimpses of midterm evaluation conducted online

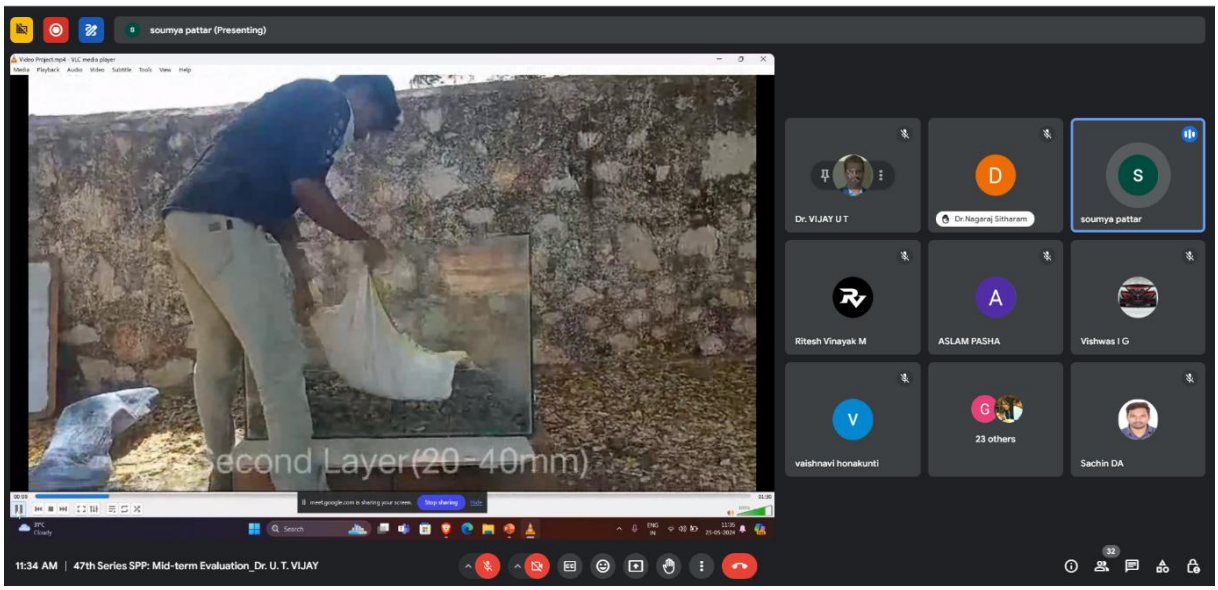


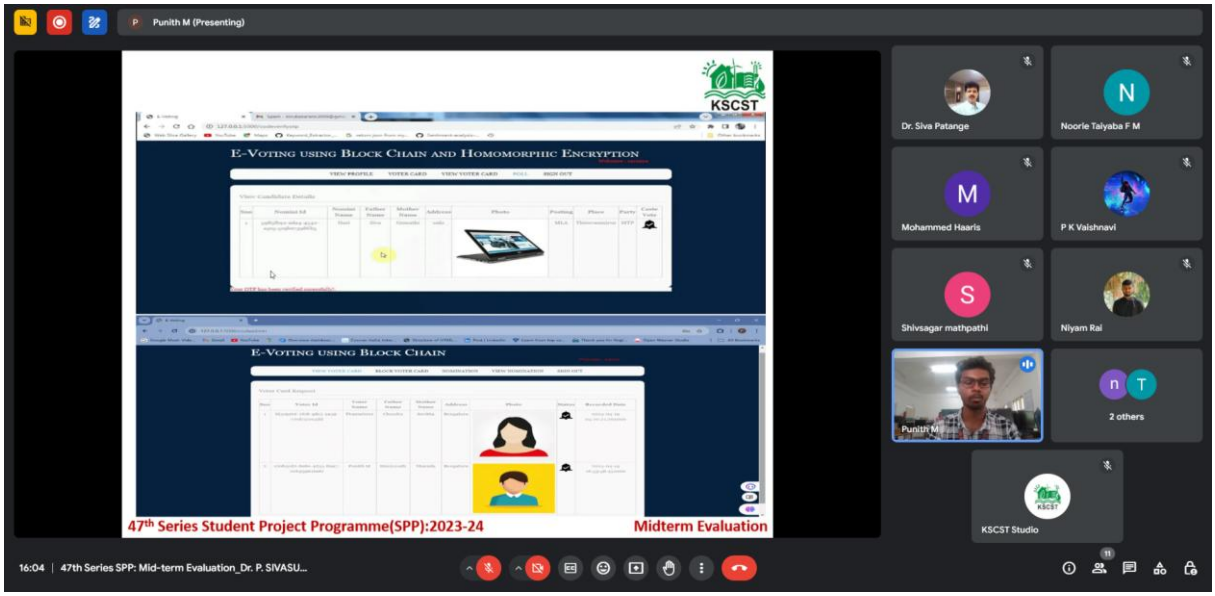


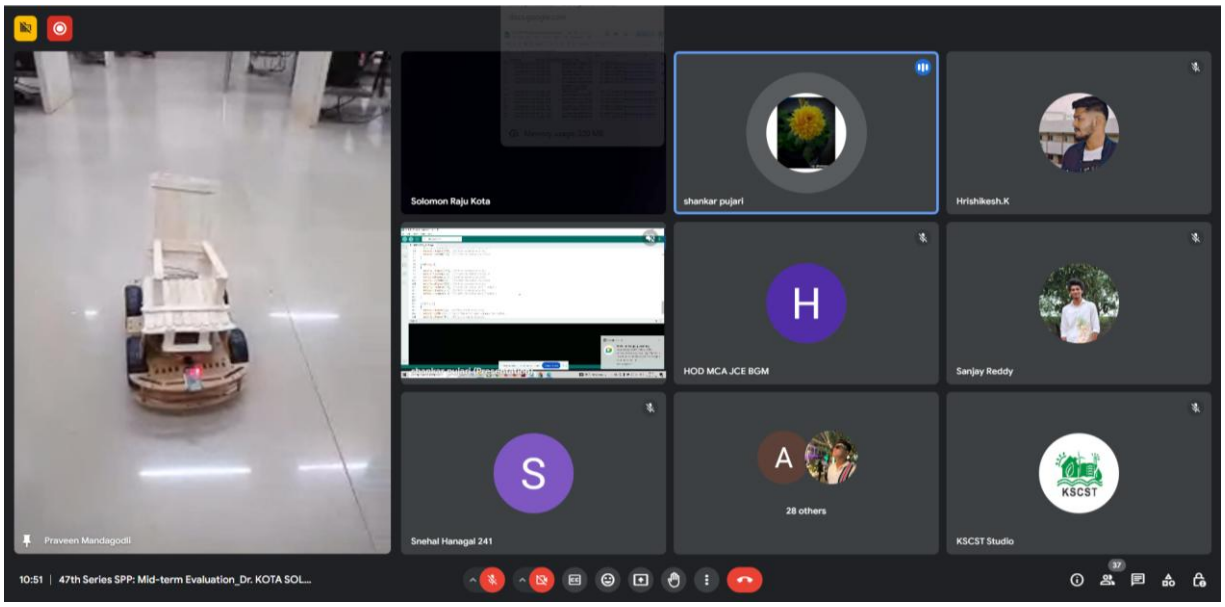

Charishma C (Presenting)
People
Add people
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IN MEETING
Contributors 11
Dr.SivaSubbarao Pat...
Sowndarya S
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4GW20IS043 Samiks...
DHANYATHA. S.R
Deepika BN
yashaswini M
Charishma C
Bhoomika HD
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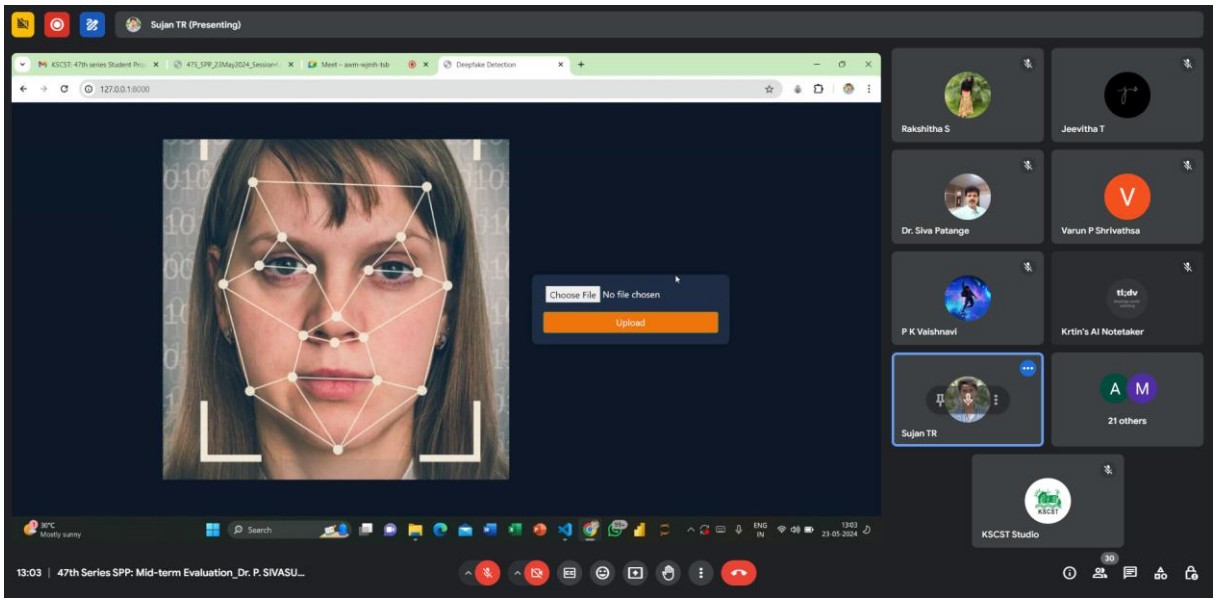

4GW20IS043 Samiksha Patil (Presenting)
Results
TalkHands: Sign Language Convertor
Character :
Sentence
next
HELLO WORLD
Suggestions :
Clear
Speak
Snapshot 1: TalkHands Application
Backspace
Snapshot 2: Backspace Sign
KSCST
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4GW20IS043 Samiks...
Dr.SivaSubbarao Pat...
Charishma C
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17:04 | 47th Series SPP: Mid-term Evaluation_Dr. P. SIVASU...

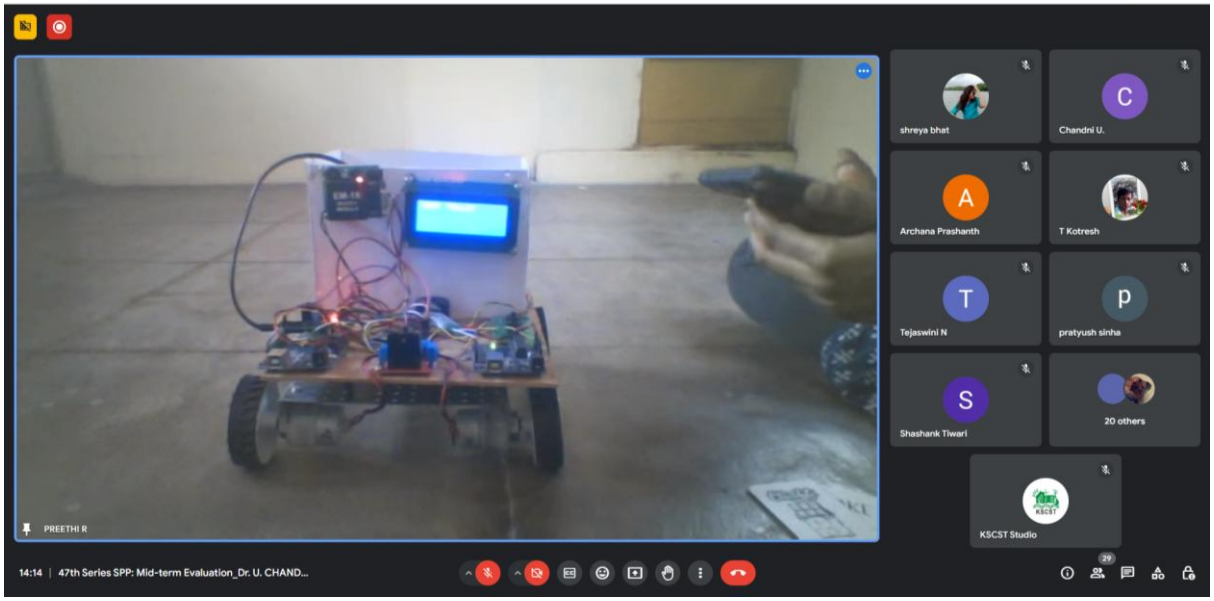

Sachin DA pinned a tile for everyone
10:17 AM | 47th Series SPP: Mid-term Evaluation_Dr. ARULALA...

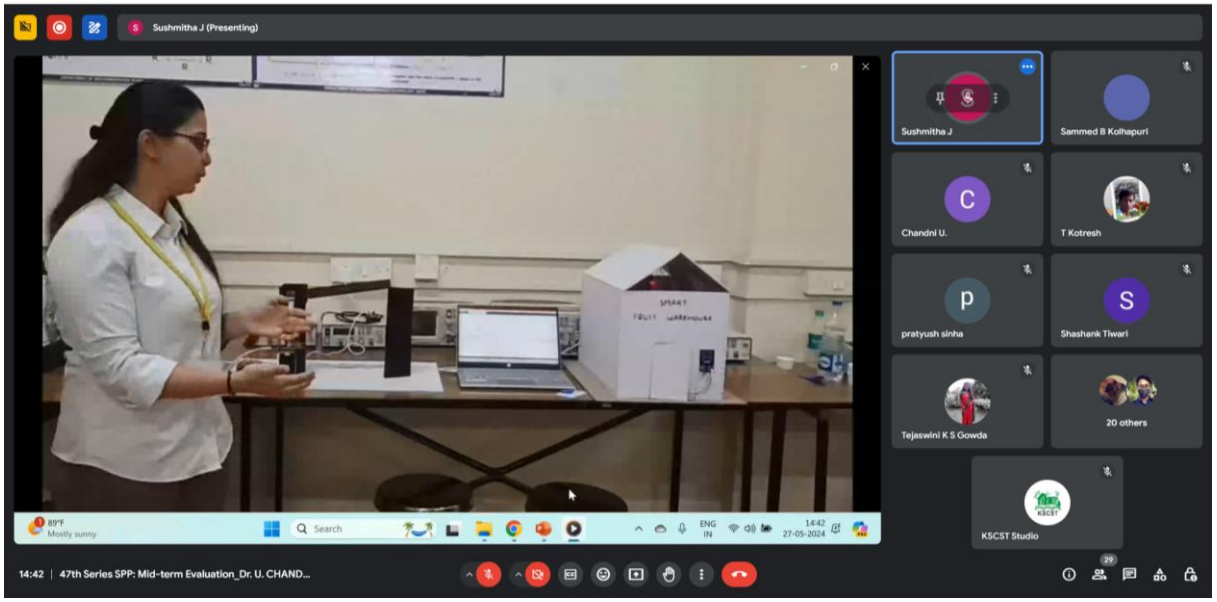

soumya pattar (Presenting)
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Dr. VIJAY U T
Dr.Nagaraj Sitharam
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Ritesh Vinayak M
ASLAM PASHA
Vishwas I G
vaishnavi honakunti
23 others
Sachin DA
11:34 AM | 47th Series SPP: Mid-term Evaluation_Dr. U. T. VIJAY

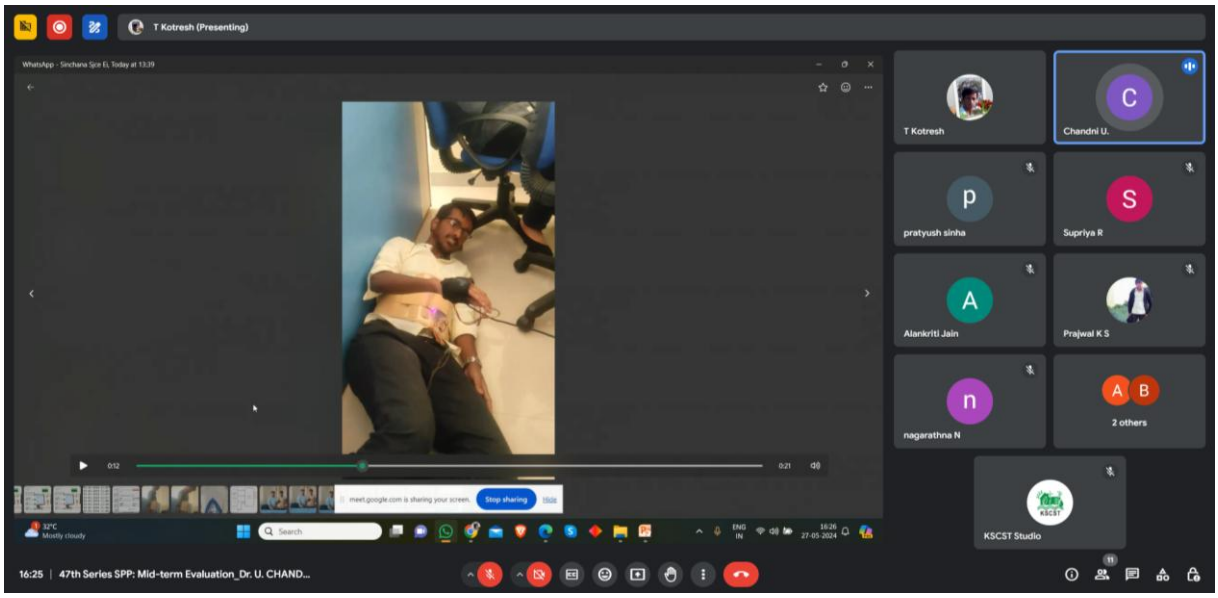

Punith M (Presenting)
KSCST
E-Voting using Block Chain and Homomorphic Encryption
E-Voting using Block Chain
47th Series Student Project Programme(SPP):2023-24
Midterm Evaluation
Dr. Siva Patange
Noorie Taiyaba F M
Mohammed Haaris
P K Vaishnavi
Shivsagar mathpathi
Niyam Rai
Punith M
2 others
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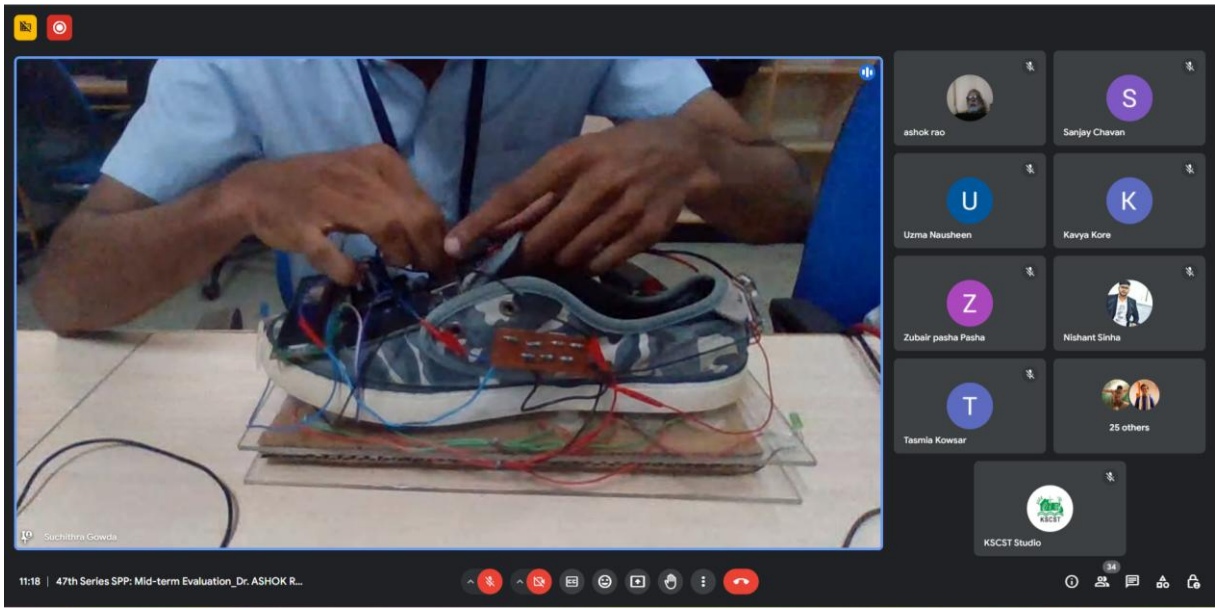

Solomon Raju Kota
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Sanjay Reddy
Praveen Mandagodli
Snehal Hanagal 241
28 others
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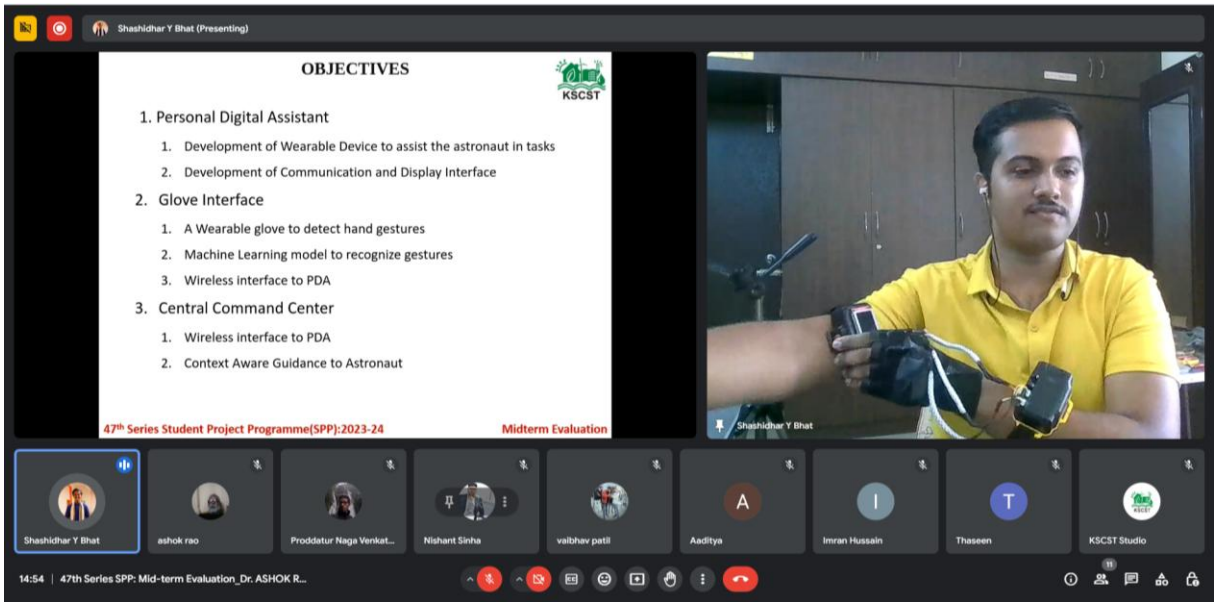

Sujan TR (Presenting)
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Rakshitha S
Jeevitha T
Dr. Siva Patange
Varun P Shrivathsa
P K Vaishnavi
Krtin's AI Notetaker
Sujan TR
21 others
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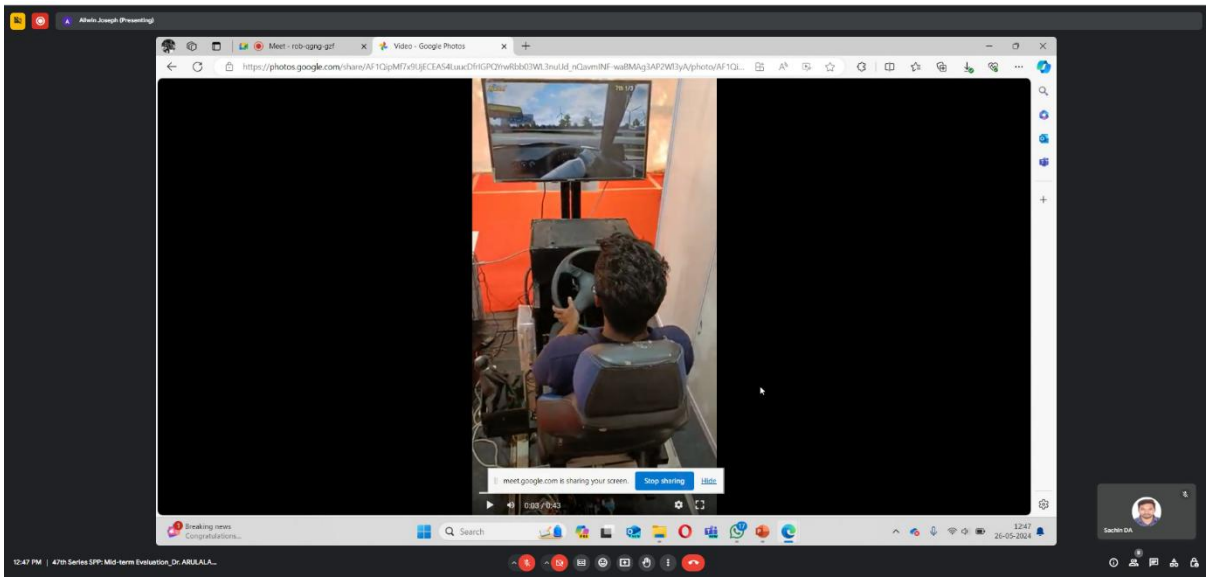

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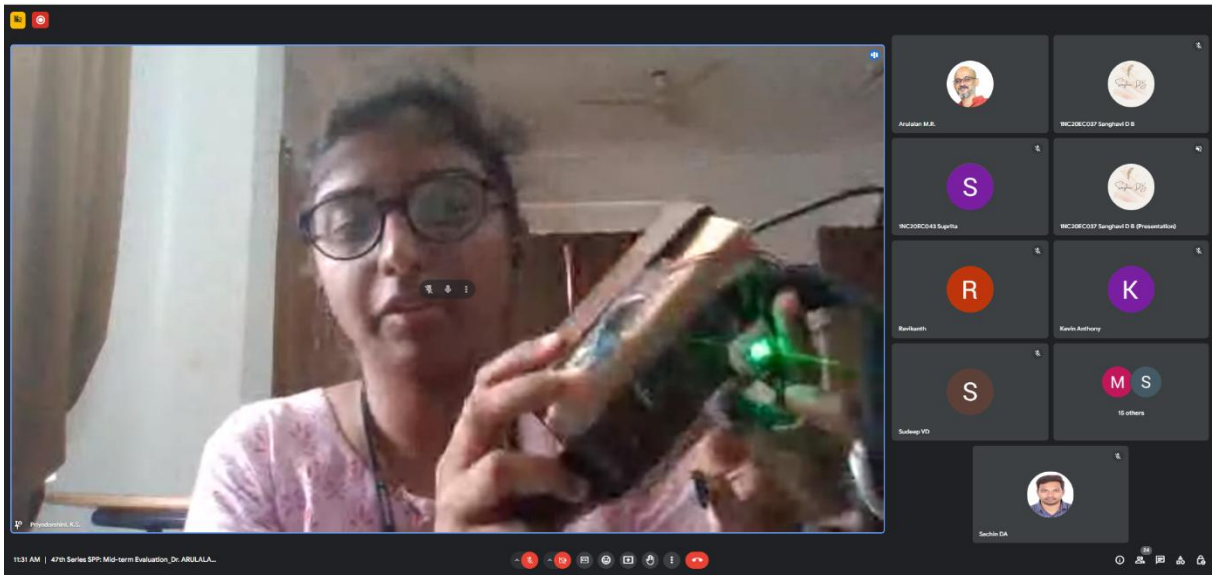

Sushmitha J (Presenting)
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T Kotresh
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Shashank Tiwari
Tejaswini K S Gowda
20 others
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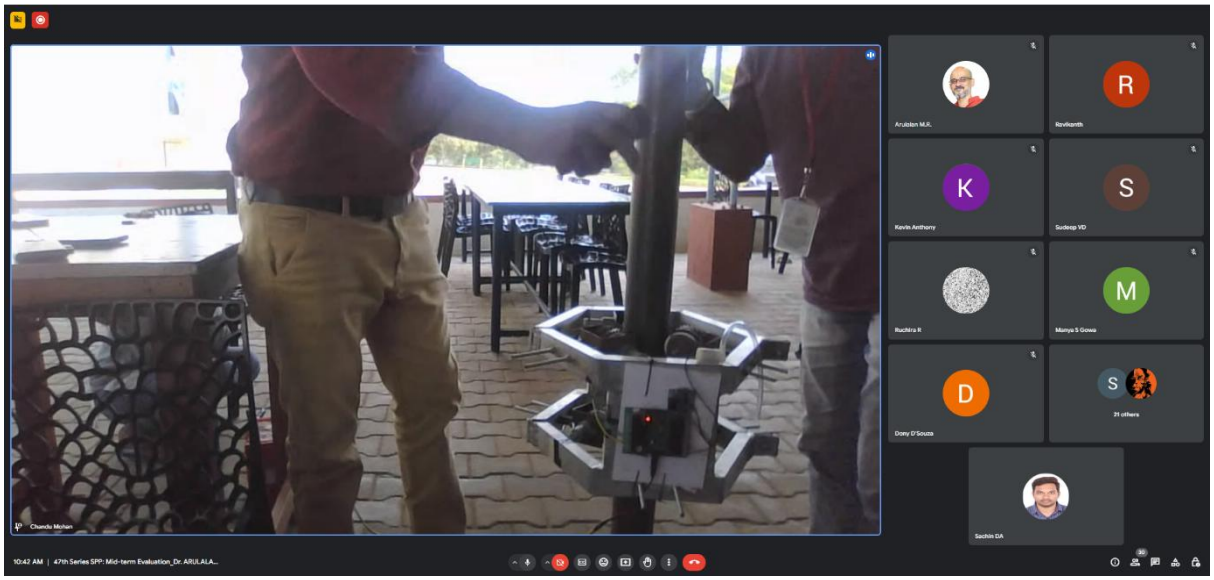

T Kotresh (Presenting)
T Kotresh
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pratyush sinha
Supriya R
Alankriti Jain
Prajwal K S
nagarathna N
2 others
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16:25 | 47th Series SPP: Mid-term Evaluation_Dr. U. CHAND...


ashok rao
Sanjay Chavan
Uzma Nausheen
Kavya Kore
Zubair pasha Pasha
Nishant Sinha
Tasmia Kowsar
25 others
KSCST Studio
Suchithra Gowda
11:18 | 47th Series SPP: Mid-term Evaluation_Dr. ASHOK R...


Shashidhar Y Bhat (Presenting)
OBJECTIVES
KSCST
1. Personal Digital Assistant
1. Development of Wearable Device to assist the astronaut in tasks
2. Development of Communication and Display Interface
2. Glove Interface
1. A Wearable glove to detect hand gestures
2. Machine Learning model to recognize gestures
3. Wireless interface to PDA
3. Central Command Center
1. Wireless interface to PDA
2. Context Aware Guidance to Astronaut
47th Series Student Project Programme(SPP):2023-24
Midterm Evaluation
Shashidhar Y Bhat
Shashidhar Y Bhat
ashok rao
Proddatur Naga Venkat...
Nishant Sinha
vaibhav patil
Aaditya
Imran Hussain
Thaseen
KSCST Studio
14:54 | 47th Series SPP: Mid-term Evaluation_Dr. ASHOK R...


Alwin Joseph (Presenting)
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Hide
Sachin DA


Arulalan M.R.
S
R
K
Ravikanth
Kevin Anthony
Sudeep VD
M S
10 others
Sachin DA


Arulalan M.R.
R
Ravikanth
K
Kevin Anthony
S
Sudeep VD
M
Munya S Gowa
D
Dony D'Souza
21 others
Sachin DA

47th edition of Student Project Programme: Annual State-Level Poster Presentation and Exhibition

The annual state-level poster presentation and exhibition were held on 9th and 10th August 2024 at Sharnbasva University, Kalaburagi. The two-day event demonstrated and presented the selected 354 projects for the academic and public.

The poster presentation and exhibition were inaugurated on the 9th of August 2024 at 10:30 AM by chief guest Sri Basavaraj S. Deshmukh, Hon'ble Secretary, Sharnbasveshwar Vidya Vardhak Sangha and Member, Board of Governing Council, Sharnbasva University, Kalaburagi, along with Dr. Anilkumar Bidve, Hon'ble Vice Chancellor, Sharnbasva University, Kalaburagi. Prof. Ashok M Raichur, Secretary, KSCST and Dr. U T Vijay, Executive Secretary, KSCST were present on this occasion. Sharnbasva University Officers Dr. Lakshmi Patil Maka, Dean, Sharnbasva University, Kalaburagi, Dr. V. D. Mytri, Director, Dr. S. G. Dollegoudar, Registrar, Dr. S. H. Honnalli, Registrar (Evaluation), Prof. Kiran Maka, Finance Officer were present in this State-level program to encourage the young engineers.

During the inauguration, the dignitaries emphasized the importance of encouraging young engineers to transition from inventions to innovations and informed them to take up projects providing solutions to local problems such as solid waste management, Solutions to industrial effluents, etc. They also released the SPP Technical Compendium and CD, which contains the abstracts of the projects selected for the event. The program was held at the Doddappa Appa Auditorium, Sharnbasva University.

In addition to the above two technical lectures was arranged during the program. Dr. K. Venkateswarlu, Chief Scientist, National Aerospace laboratories, Bengaluru delivered technical talk on "Perception of Engineering Students and Faculty Members for their Careers" on 10th August 2024 between 12:00 to 12:40 pm followed by Technical Presentation by Dr. Harilal Bhaskar, Chief Operating Officer and National Co-Ordinator, Indian Science Technology and Engineering Facilities Map (I-STEM) and the Topic is "I-STEM Portal: How Partner Institutes and R&D Labs Drive Its Evolution into a Global Portal of Pride for India".

During the poster presentation and exhibition, the experts reviewed each of the projects and recommended a total of 48 projects for the "Best Project of the Year" award. Notably:

- Three of the awarded projects were supported by ART-Park, IISc.
- Two projects received awards from the Karnataka State Bioenergy Development Board, Government of Karnataka.

Additionally, Dayananda Sagar College of Engineering, Bengaluru was recognized with the "Best Performing College" award.

The awards were presented during the valedictory function held on 10th August 2024 at 3:00 PM at Doddappa Appa Auditorium, Sharnbasva University,

Kalaburagi. Prof. Ashok M. Raichur, Secretary, Karnataka State Council for Science and Technology and Professor, Department of Materials Engineering, Indian Institute of Science was the Guest of Honour. Dr. Baswaraj Gadgay, Regional Director, Visvesvaraya Technological University, Kalaburagi delivered the valedictory address and Sri Basavaraj S. Deshmukh, Hon'ble Secretary, Sharnbasveshwar Vidya Vardhak Sangha and Member, Board of Governing Council, Sharnbasva University, Kalaburagi and Dr. Anilkumar Bidve, Hon'ble Vice Chancellor, Sharnbasva University, Kalaburagi presided over the function and addressed the gathering. Sharnbasva University Officers Dr. Lakshmi Patil Maka, Dean, Sharnbasva University, Kalaburagi, Dr. S. G. Dollegoudar, Registrar, Prof. Kiran Maka, Finance Officer, Dr. U T Vijay, Executive Secretary, KSCST were present in this State-level valedictory program.

Glimpses of 47th series Annual State-Level Poster Presentation and Exhibition



Inauguration of poster presentation and exhibition and student participation in the two-day event held at Sharnbasva University, Kalaburagi






Design and Development of
Foldable Electric Vehicle






KARNATAKA STATE COUNCIL FOR











Valedictory and award presentation function 47th Series poster presentation and exhibition and student participation in the two-day event held at Sharnbasva University, Kalaburagi

News Paper articles published about 47th series poster presentation and exhibition held at Sharnbasva University, Kalaburagi



ಗಮನ ಸೆಳೆಯುತ್ತಿವೆ ತಾಂತ್ರಿಕ ಪ್ರಾಜೆಕ್ಟ್

ಎರಡು ದಿನಗಳ ರಾಜ್ಯ ಮಟ್ಟದ 47ನೇ ಸರಣಿಯ ವಿದ್ಯಾರ್ಥಿ ಯೋಜನಾ ಕಾರ್ಯಕ್ರಮ

ಸ್ಥಳೀಯ ಸಮಸ್ಯೆಗಳಿಗೆ ಸಂತೋಷದಾಯಕ ಪರಿಹಾರ ನೀಡಲಿ



ರಾಜ್ಯಮಟ್ಟದ ಪೋಸ್ಟರ್ ಪ್ರಸ್ತುತಿ, ಯೋಜನೆಗಳ ಪ್ರದರ್ಶನಕ್ಕೆ ತೆರೆ

ದಯಾನಂದ ಸಾಗರ್ ಕಾಲೇಜಿಗೆ ಅತ್ಯುತ್ತಮ ಕಾಲೇಜು ಪ್ರಶಸ್ತಿ



ಕಲಬುರಗಿ: ನಗರದ ಶರಣಬಸವ ವಿವಿ ಆವರಣದಲ್ಲಿಂದು ಆಯೋಜಿಸಿದ್ದ 47ನೇ ಸರಣಿ-ವಿದ್ಯಾರ್ಥಿ ಯೋಜನಾ ಕಾರ್ಯಕ್ರಮದ ಪ್ರಾಜೆಕ್ಟ್ ಸೆಮಿನಿಸಾರ್-ಪ್ರದರ್ಶನವನ್ನು ಶರಣಬಸವೇಶ್ವರ ವಿದ್ಯಾವರ್ಧಕ ಸಂಘದ ಕಾರ್ಯದರ್ಶಿ ಬಸವರಾಜ ದೇಶಮುಖ ಅವರು ಉದ್ಘಾಟಿಸಿದರು. ವಿವಿ ಉಪ ಕುಲಪತಿ ಡಾ.ಆನಿಲಕುಮಾರ ಬಿಡವೆ, ನಿರ್ದೇಶಕ ಡಾ.ವಿ.ಡಿ.ಮೈತ್ರಿ, ಎನ್.ಎಸ್.ದೇವರಕಲ್, ರಜಿಸ್ಟಾರ ಡಾ.ಎಸ್.ಜಿ.ಡೊಳ್ಳೇಗೌಡರ, ಡಾ.ಎಸ್.ಜೆಜ್.ಹೊನ್ನಳ್ಳಿ, ಡೀನ್ ಡಾ.ಲಕ್ಷ್ಮೀ ಪಾಟೀಲ ಮಾಕಾ, ಪರೀಕ್ಷಾ ನಿಯಂತ್ರಣಾಧಿಕಾರಿ ಪ್ರೊ.ಕಿರಣ್ ಮಾಕಾ.ಕೆ.ಎಸ್.ಸಿ.ಎಸ್.ಟಿ ಕಾರ್ಯನಿರ್ವಾಹಕ ಕಾರ್ಯದರ್ಶಿ ಯು.ಟಿ.ವಿಜಯ್, ಶಿವದತ್ತ ಹೊನ್ನಳ್ಳಿ ಇದ್ದರು.



ಶರಣಬಸವ ವಿವಿಯಲ್ಲಿ ವಸ್ತು ಪ್ರದರ್ಶನ | ವಿವಿಧ ರಾಜ್ಯದ ವಿದ್ಯಾರ್ಥಿಗಳು ಭಾಗಿ

ಬೆಂಗಳೂರು ದಯಾನಂದ ಸಾಗರ್ ಟಾಪ್

ಕಲಬುರಗಿ ಶರಣಬಸವ ವಿಶ್ವವಿದ್ಯಾಲಯದಲ್ಲಿ ಕನಿವಾದ ಅಯೋಜಿಸಿದ್ದ ರಾಜ್ಯಮಟ್ಟದ ವಿಜ್ಞಾನ ವಸ್ತು ಪ್ರದರ್ಶನದಲ್ಲಿ ಅತ್ಯುತ್ತಮ ಪ್ರದರ್ಶನ ನೀಡಿದ ವಿದ್ಯಾರ್ಥಿಗಳ ತಂಡ. ಬಸವರಾಜ ದೇಶಮುಖ, ಪ್ರೊ.ಬಸವರಾಜ ಗಾದಗಿ, ಡಾ.ಅನಿಲಕುಮಾರ ಬಿಡವೆ, ಡಾ.ಲಕ್ಷ್ಮೀ ಪಾಟೀಲ್ ಮಾಕಾ ಇತರರಿದ್ದರು.

ಕಲಬುರಗಿ ಶರಣಬಸವ ವಿವಿಯಲ್ಲಿ ಆಯೋಜಿಸಿದ್ದ ರಾಜ್ಯಮಟ್ಟದ ವಿಜ್ಞಾನ ವಸ್ತುಪ್ರದರ್ಶನದಲ್ಲಿ ಉತ್ತಮ ಯೋಜನೆ ಪ್ರಶಸ್ತಿ ಪಡೆದ ಶರಣಬಸವ ವಿವಿ ವಿದ್ಯಾರ್ಥಿಗಳ ತಂಡ. ಬಸವರಾಜ ದೇಶಮುಖ, ಪ್ರೊ.ಬಸವರಾಜ ಗಾದಗಿ, ಪ್ರೊ.ವಿ.ಡಿ.ಮೈತ್ರಿ, ಡಾ.ಅನಿಲಕುಮಾರ ಬಿಡವೆ, ಡಾ.ಎಸ್.ಜಿ.ಡೊಳ್ಳೇಗೌಡರ್, ಡಾ.ಲಕ್ಷ್ಮೀ ಪಾಟೀಲ್ ಮಾಕಾ ಇತರರಿದ್ದರು.

48 ಪ್ರಾಜೆಕ್ಟ್ ಅಂತಿಮ

25 ಅತ್ಯುತ್ತಮ ಪೋಸ್ಟರ್ ಪ್ರಸ್ತುತಿ



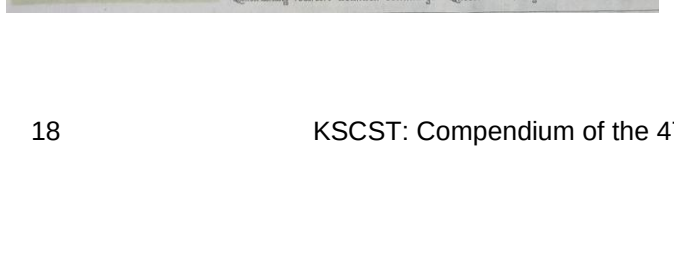
ಎಸ್ ಪಿಪಿ ಸಮ್ಮೇಳನ ನಾಳೆಯಿಂದ

ಉದ್ಘಾಟನೆ ನಾಳೆ

ಕರ್ನಾಟಕ ರಾಜ್ಯ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಪರಿಷತ್ತಿನ 47ನೇ ವಿದ್ಯಾರ್ಥಿ ಯೋಜನೆ ಪ್ರದರ್ಶನ ಹಾಗೂ ಪೋಸ್ಟರ್ ಪ್ರಸ್ತುತಿ ಸಮ್ಮೇಳನ, ತರಂಗ ಬಸವ ವಿವಿಯಲ್ಲಿ ಆಯೋಜನೆ

1000ಕ್ಕೂ ಹೆಚ್ಚು ಜನರಿಗೆ ವ್ಯವಸ್ಥೆ

ಎರಡು ಉಪನ್ಯಾಸ:



ಕಲಬುರಗಿ: ನಗರದ ಶರಣಬಸವ ವಿಶ್ವವಿದ್ಯಾಲಯದ ದೊಡ್ಡದ ಆವೃ ಸಭಾಮಂಟಪದಲ್ಲಿ ರಾಜ್ಯ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಮಂಡಳ (ಕೆಎಸ್ಸಿಎಸ್ಟಿ) ಆಯೋಜಿಸಿದ್ದ 47ನೇ ಸರಣಿ ವಿದ್ಯಾರ್ಥಿ ಯೋಜನೆ ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಬೆಂಗಳೂರು ದಯಾನಂದ ಸಾಗರ್ ಕಾಲೇಜ್ ಆಫ್ ಇಂಜಿನಿಯರಿಂಗ್, ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ರಾಜ್ಯ ಮಟ್ಟದ ಪೋಸ್ಟರ್ ಪ್ರಸ್ತುತಿ ಮತ್ತು ಯೋಜನೆಗಳ ಪ್ರದರ್ಶನದಲ್ಲಿ ಪ್ರತಿಷ್ಠಿತ ಸ್ವೀಕೃತಮ ಪ್ರದರ್ಶನ ಕಾಲೇಜು ಪ್ರಶಸ್ತಿ ಪಡೆದುಕೊಂಡಿದೆ.

ಭಾರತೀಯ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ, ರಾಷ್ಟ್ರೀಯ ವೈದ್ಯಾನಿಕ ಪ್ರಯೋಗಾಲಯ (ಸಿಎಲ್) ಮತ್ತು ಇತರ ಉನ್ನತ ಶಿಕ್ಷಣ ಹಾಗೂ ಸಂಶೋಧನೆಯ ಪ್ರಮುಖ ಸಂಸ್ಥೆಗಳ ಹಿರಿಯ ವಿಜ್ಞಾನಿಗಳನ್ನು ಒಳಗೊಂಡಿರುವ ತೀರ್ಪುಗಾರರ ಸಮಿತಿಯು, ವಿವಿಧ ಕಾಲೇಜುಗಳು ಮತ್ತು ಉನ್ನತ ಅಧ್ಯಯನ ಸಂಸ್ಥೆಗಳು ಸಲ್ಲಿಸಿದ ಯೋಜನೆಗಳ ಸಂಪೂರ್ಣ ಸೇರಿ ಹಲವಾರು ವಿಷಯಗಳನ್ನು ಪರಿಗಣನೆಗೆ ತೆಗೆದುಕೊಂಡಿತು. ಪ್ರತಿ ವರ್ಷ ರಾಜ್ಯದ ಒಂದು ಕಾಲೇಜಿಗೆ ನೀಡುವ ಅತ್ಯುತ್ತಮ ಪ್ರದರ್ಶನ ಕಾಲೇಜು ಪ್ರಶಸ್ತಿಯನ್ನು ಆಯ್ಕೆಯನ್ನು ಅಂತಿಮಗೊಳಿಸುವ ಮೊದಲು ಯೋಜನೆಗಳ ಗುಣಮಟ್ಟ, ಪ್ರಸ್ತುತಿ ಮತ್ತು ಇತರ ಅಂಕಗಳನ್ನು ಪರಿಶೀಲಿಸಲಾಯಿತು.

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಪ್ರಾದೇಶಿಕ ನಿರ್ದೇಶಕರೂ ಬಸವರಾಜ ಗಾದಗಿ, ಶರಣಬಸವೇಶ್ವರ ವಿದ್ಯಾವರ್ಧಕ ಸಂಘದ ಕಾರ್ಯದರ್ಶಿ ಬಸವರಾಜ ದೇಶಮುಖ, ಕೆ-ಎಸ್ಸಿಎಸ್ಟಿ ಕಾರ್ಯದರ್ಶಿ ಪ್ರೊ. ಅಶೋಕ್ ರಾಯಚೂರು, ಕಾರ್ಯನಿರ್ವಾಹಕ ಕಾರ್ಯದರ್ಶಿ ಯು.ಟಿ.ವಿಜಯ್, ಶಿವದತ್ತ ಹೊನ್ನಳ್ಳಿ ಇದ್ದರು.

ರಾಜ್ಯಮಟ್ಟದ ಪೋಸ್ಟರ್ ಪ್ರಸ್ತುತಿ, ಯೋಜನೆಗಳ ಪ್ರದರ್ಶನಕ್ಕೆ ತೆರೆ

ದಯಾನಂದ ಸಾಗರ್ ಕಾಲೇಜಿಗೆ ಅತ್ಯುತ್ತಮ ಕಾಲೇಜು ಪ್ರಶಸ್ತಿ

47th series of Student Project Programme (SPP): 2023-24

State-Level Projects Poster presentation and Exhibition to be held at Sharnbasva University, Kalaburagi on 9-10 August 2024

College Wise List of projects selected for Poster presentation and Exhibition projects

Name of the Institution	Total Projects Approved	Projects Selected for Poster Presentation (A)	Projects Selected for Exhibit project (B)	Total No. of projects Selected for Poster and Exhibition (A+B)
1. A.C.S. COLLEGE OF ENGINEERING, BENGALURU	4	-	-	0
2. A.G.M. RURAL COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBBALLI	5	-	-	0
3. A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY, MANGALURU	7	1	-	1
4. A.J. INSTITUTE OF MANAGEMENT, MANGALURU	1	-	-	0
5. A.M.C. ENGINEERING COLLEGE, BENGALURU	6	-	1	1
6. A.P.S. COLLEGE OF ENGINEERING, BENGALURU	5	-	2	2
7. A.T.M.E. COLLEGE OF ENGINEERING, MYSURU	8	1	2	3
8. ACHARYA INSTITUTE OF MANAGEMENT & SCIENCES, BENGALURU	1	-	-	0
9. ACHARYA INSTITUTE OF TECHNOLOGY, BENGALURU	10	-	1	1
10. ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU	9	1	2	3
11. ADMINISTRATIVE MANAGEMENT COLLEGE, BENGALURU	3	-	-	0
12. AKSHAYA INSTITUTE OF TECHNOLOGY, TUMAKURU	5	1	-	1
13. ALLIANCE COLLEGE OF ENGINEERING AND DESIGN, ALLIANCE UNIVERSITY, BENGALURU	3	1	-	1
14. ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, MOODBIDRI	22	1	1	2
15. AMRITA VISHWA VIDYAPEETHAM BENGALURU CAMPUS, BENGALURU	5	-	3	3
16. AMRUTA INSTITUTE OF ENGINEERING AND MANAGEMENT SCIENCES, BIDADI	1	-	-	0
17. ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELAGAAVI	8	1	2	3
18. ANJUMAN INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BHATKAL	2	1	-	1
19. ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU	16	2	2	4
20. B.G.S. INSTITUTE OF TECHNOLOGY, MANDYA	18	-	1+1	2
21. B.L.D.E.A'S V.P. DR. P.G.HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA	14	1	5	6
22. B.M.S. COLLEGE OF ENGINEERING, BULL TEMPLE ROAD, BENGALURU	12	1	2	3
23. B.M.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, YELAHANKA, BENGALURU	9	1	-	1
24. B.N.M. INSTITUTE OF TECHNOLOGY, BENGALURU	2	-	2	2

25.	B.V.V. SANGHA'S BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT	11	2	3	5
26.	B.V.V.S BILURUR GURUBASAVA MAHASWAMIJI INSTITUTE OF TECHNOLOGY, MUDHOL	9	1	1	2
27.	BALLARI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BALLARI	9	1	1	2
28.	BANGALORE INSTITUTE OF TECHNOLOGY, BENGALURU	27	3	3	6
29.	BANGALORE TECHNOLOGICAL INSTITUTE, BENGALURU	2	-	-	0
30.	BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANAGERE	14	3	2	5
31.	BASAVAKALYAN ENGINEERING COLLEGE, BASAVAKALYANA	2	-	1	1
32.	BEARYS INSTITUTE OF TECHNOLOGY, MANGALURU	7	-	1	1
33.	BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU	4	-	1	1
34.	C. BYREGOWDA INSTITUTE OF TECHNOLOGY, KOLAR	1	-	-	0
35.	C.M.R. INSTITUTE OF TECHNOLOGY, BENGALURU	5	-	1	1
36.	C.M.R. UNIVERSITY, BENGALURU	2	-	-	0
37.	C.M.S BUSINESS SCHOOL, JAIN (DEEMED-TO-BE UNIVERSITY), BENGALURU	1	-	-	0
38.	CAMBRIDGE INSTITUTE OF TECHNOLOGY, BENGALURU	8	-	1	1
39.	CANARA ENGINEERING COLLEGE, MANGALURU	12	2	2	4
40.	CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, TUMAKURU	11	3	1	4
41.	CHRIST DEEMED TO BE UNIVERSITY, KENGERI CAMPUS, BENGALURU	5	-	2	2
42.	CITY ENGINEERING COLLEGE, BENGALURU	4	-	2	2
43.	COLLEGE OF HORTICULTURE BENGALURU	1	1	-	1
44.	COORG INSTITUTE OF TECHNOLOGY, KODAGU	5	-	1	1
45.	DAVANGERE UNIVERSITY, DAVANGERE	7	-	-	0
46.	DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT, BENGALURU	18	-	5	5
47.	DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU	55	5	8+1	14
48.	DAYANANDA SAGAR UNIVERSITY, BENGALURU	13	1	1	2
49.	DON BOSCO INSTITUTE OF TECHNOLOGY, BENGALURU	18	1	2	3
50.	Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU	9	-	1	1
51.	Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY, KOLAR	2	-	-	0
52.	EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU	7	2	1	3
53.	EAST WEST COLLEGE OF ENGINEERING, YELAHANKA, BENGALURU	1	-	-	0
54.	EAST WEST FIRST GRADE COLLEGE OF SCIENCE, BENGALURU	1	-	-	0

55.	EAST WEST INSTITUTE OF TECHNOLOGY, BENGALURU	16	-	2	2
56.	G. MADEGOWDA INSTITUTE OF TECHNOLOGY, MADDUR	6	1	1	2
57.	G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE	20	3	1+1	5
58.	G.S.S.S. INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN, MYSURU	10	2	-	2
59.	GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, GITAM OFF CAMPUS, BENGALURU	2	-	-	0
60.	GARDEN CITY UNIVERSITY, BENGALURU	13	2+2	-	4
61.	GLOBAL ACADEMY OF TECHNOLOGY, BENGALURU	19	-	1+1	2
62.	GOPALAN COLLEGE OF ENGINEERING AND MANAGEMENT, BENGALURU	5	1	3	4
63.	GOVERNMENT ENGINEERING COLLEGE, DODDAMANNUGUDDE, RAMANAGARA	1	-	1	1
64.	GOVERNMENT ENGINEERING COLLEGE, KARWAR	2	-	-	0
65.	GOVERNMENT ENGINEERING COLLEGE, MOSALEHOSAHALLI, HASSAN	2	-	1	1
66.	GOVERNMENT ENGINEERING COLLEGE, TALAKAL, KOPPALA	1	-	-	0
67.	GURU NANAK DEV ENGINEERING COLLEGE, BIDAR	15	-	1+1	2
68.	GURU NANAK FIRST GRADE COLLEGE, BIDAR	1	-	-	0
69.	H.K.B.K. COLLEGE OF ENGINEERING, BENGALURU	12	1	-	1
70.	H.K.E SOCIETY'S SIR M. VISVESVARAYA COLLEGE OF ENGINEERING, RAICHUR	4	-	2	2
71.	HIRASUGAR INSTIUTE OF TECHNOLOGY, BELAGAAVI	12	1	1+1	3
72.	INDIAN ACADEMY DEGREE COLLEGE- AUTONOMOUS, BENGALURU	7	-	-	0
73.	J.S.S ACADEMY OF HIGHER EDUCATION AND RESEARCH, MYSURU	1	1	-	1
74.	J.S.S COLLEGE OF ARTS, COMMERCE AND SCIENCE, MYSURU	1	-	-	0
75.	J.S.S. ACADEMY OF TECHNICAL EDUCATION, BENGALURU	17	2+1	1	4
76.	J.S.S. SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU	10	2	-	2
77.	JAIN (DEEMED - TO - BE UNIVERSITY), SCHOOL OF SCIENCES, J.C ROAD, BENGALURU	3	1	-	1
78.	JAIN COLLEGE OF ENGINEERING AND RESEARCH, BELAGAAVI	3	1	1	2
79.	JAIN COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD	14	2	1	3
80.	JAIN COLLEGE OF ENGINEERING, BELAGAAVI	17	2	1	3
81.	JAIN DEEMED TO BE UNIVERSITY FACULTY OF ENGINEERING AND TECHNOLOGY, RAMANAGARA	3	-	1	1
82.	JAIN INSTITUTE OF TECHNOLOGY, DAVANAGERE	12	1	-	1
83.	JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIVAMOGGA	13	2+1	-	3
84.	JYOTHY INSTITUTE OF TECHNOLOGY, BENGALURU	23	3	1	4

85.	K.E.S's INSTITUTE OF EXCELLENCE IN MANAGEMENT SCIENCE, HUBBALLI	3	-		0
86.	K.L.E SOCIETY's K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKODI	15	1	1	2
87.	K.L.E. Dr. M. S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, BELAGAVI	10	1	-	1
88.	K.L.E. INSTITUTE OF TECHNOLOGY, HUBBALLI	17	2	2	4
89.	K.L.E. SOCIETY's BASAVAPRABHU KORE ARTS SCIENCE AND COMMERCE COLLEGE, CHIKODI	1	1	-	1
90.	K.L.E. SOCIETY's S. NIJALINGAPPA COLLEGE RAJAJINAGAR, BENGALURU	4	-	1	1
91.	K.L.E. TECHNOLOGICAL UNIVERSITY, HUBBALLI	1	1	-	1
92.	K.L.S. GOGTE INSTITUTE OF TECHNOLOGY, UDYAMBAG, BELAGAAVI	12	1	2	3
93.	K.L.S. VISHWANATHRAO DESHPANDE INSTITUTE OF TECHNOLOGY, HALIYAL, UTTARA KANNADA	5	-	1	1
94.	K.N.S. INSTITUTE OF TECHNOLOGY, BENGALURU	2	-	-	0
95.	K.S. INSTITUTE OF TECHNOLOGY, BENGALURU	8	-	2	2
96.	K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU	9	1	-	1
97.	K.V.G. COLLEGE OF ENGINEERING, SULLIA, DAKSHINA KANNADA	3	-	1	1
98.	KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR	2	1	-	1
99.	KARAVALI INSTITUTE OF TECHNOLOGY, MANGALURU	4	-	-	0
100.	KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE, BIDAR	1	-	-	0
101.	KARNATAK UNIVERSITY, DHARWAD	2	2	-	2
102.	KRISTU JAYANTI COLLEGE, AUTONOMOUS, KOTHANUR PO, BENGALURU	4	1	-	1
103.	LINGARAJAPPA ENGINEERING COLLEGE, BIDAR	5	-	-	0
104.	M.S RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE, BENGALURU	7	2	-	2
105.	M.S. ENGINEERING COLLEGE, BENGALURU	5	-	-	0
106.	M.S. RAMAIAH UNIVERSITY OF APPLIED SCIENCES, BENGALURU	15	3	1	4
107.	M.V.J. COLLEGE OF ENGINEERING, BENGALURU	11	-	4	4
108.	MAHARAJA INSTITUTE OF TECHNOLOGY, MYSURU	6	-	1	1
109.	MAHARAJA INSTITUTE OF TECHNOLOGY, NANJANGUD TALUK, THANDAVAPURA	8	1	1	2
110.	MAHARANI LAKSHMI AMMANNI COLLEGE FOR WOMEN AUTONOMOUS, BENGALURU	2	-	-	0
111.	MALNAD COLLEGE OF ENGINEERING, HASSAN	6	1	-	1
112.	MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOODBIDRI	24	5	4	9
113.	MANIPAL INSTITUTE OF TECHNOLOGY, MAHE, MANIPAL	1	1	-	1
114.	MOODLAKATTE INSTITUTE OF TECHNOLOGY, UDUPI	4	-	-	0

115. MOUNT CARMEL COLLEGE AUTONOMOUS, BENGALURU	1	1	-	1
116. N.I.E. INSTITUTE OF TECHNOLOGY, MYSURU	5	-	2	2
117. N.M.A.M. INSTITUTE OF TECHNOLOGY, NITTE	11	1	2	3
118. N.M.K.R.V COLLEGE FOR WOMEN, BENGALURU	4	-	1	1
119. NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU	10	1	2	3
120. NAGARJUNA COLLEGE OF MANAGEMENT STUDIES, CHIKKABALLAPUR	4	-	-	0
121. NAGARJUNA DEGREE COLLEGE SCHOOL OF MANAGEMENT, BENGALURU	1	-	-	0
122. NAVKIS COLLEGE OF ENGINEERING, HASSAN	6	-	2	2
123. NAVODAYA INSTITUTE OF TECHNOLOGY, RAICHUR	1	-	-	0
124. NEW HORIZON COLLEGE OF ENGINEERING, BENGALURU	51	3	6	9
125. NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU	15	2	1	3
126. NITTE SCHOOL OF FASHION TECHNOLOGY AND INTERIOR DESIGN, BENGALURU	1	-	-	0
127. P.A. COLLEGE OF ENGINEERING, MANGALURU	3	-	-	0
128. P.D.A. COLLEGE OF ENGINEERING, KALABURAGI	15	2	1	3
129. P.E.S. COLLEGE OF ENGINEERING, MANDYA	4	2	-	2
130. P.E.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA	18	1	1	2
131. P.E.S. UNIVERSITY, BENGALURU	1	1	-	1
132. PADMASHREE INSTITUTE OF MANAGEMENT AND SCIENCES, BENGALURU	7	3	-	3
133. PRESIDENCY UNIVERSITY, BENGALURU	2	1	-	1
134. PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPETE, BALLARI	1	-	1	1
135. R.L. JALAPPA INSTITUTE OF TECHNOLOGY, DODDABALLAPURA, BENGALURU	1	-	-	0
136. R.N.S. INSTITUTE OF TECHNOLOGY, BENGALURU	6	-	3	3
137. R.R. INSTITUTE OF TECHNOLOGY, BENGALURU	10	1	2	3
138. R.T.E. SOCIETY'S, RURAL ENGINEERING COLLEGE, HULKOTI, GADAG	3	-	-	0
139. R.V. COLLEGE OF ENGINEERING, BENGALURU	8	2	-	2
140. R.V. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BENGALURU	7	-	2	2
141. RAJARAJESWARI COLLEGE OF ENGINEERING, BENGALURU	11	-	-	0
142. RAJEEV INSTITUTE OF TECHNOLOGY, HASSAN	8	1	-	1
143. RAJIV GANDHI INSTITUTE OF TECHNOLOGY, BENGALURU	1	-	-	0
144. RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU	13	4	1+1	6
145. RANI CHANNAMMA UNIVERSITY, BELAGAVI	5	-	-	0
146. RAO BAHADUR Y. MAHABALESWARAPPA ENGINEERING COLLEGE, BALLARI	1	-	-	0

147. REVA UNIVERSITY, BENGALURU	62	1+1	9+1	12
148. S.D.M. COLLEGE OF BUSINESS MANAGEMENT, POST GRADUATE CENTRE FOR MANAGEMENT STUDIES AND RESEARCH, MANGALURU	2	-	-	0
149. S.D.M. COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD	14	1	3	4
150. S.D.M. INSTITUTE OF TECHNOLOGY, UJIRE	2	1	-	1
151. S.E.A. COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU	4	2	-	2
152. S.G. BALEKUNDRI INSTITUTE OF TECHNOLOGY, BELAGAAVI	12	1	2+1	4
153. S.J.B. INSTITUTE OF TECHNOLOGY, BENGALURU	10	-	1	1
154. S.J.C. INSTITUTE OF TECHNOLOGY, CHIKKABALLAPURA	24	1	4	5
155. S.J.M. INSTITUTE OF TECHNOLOGY, CHITRADURGA	4	-	1	1
156. SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU	25	1	5	6
157. SAI VIDYA INSTITUTE OF TECHNOLOGY, BENGALURU	6	-	4	4
158. SAMBHRAM INSTITUTE OF TECHNOLOGY, BENGALURU	2	-		0
159. SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU	7	2	1	3
160. SECAB INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA	3	2	-	2
161. SHARNBASVA UNIVERSITY, KALABURAGI	9	-	2	2
162. SHETTY INSTITUTE OF TECHNOLOGY, KALABURAGI	1	-	-	0
163. SHREE DEVI INSTITUTE OF TECHNOLOGY, MANGALURU	1	-	-	0
164. SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, UDUPI	4	-	3	3
165. SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMAKURU	5	-	-	0
166. SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU	11	-	2	2
167. SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU	9	1	1	2
168. SMT. KAMALA AND SRI VENKAPPA M. AGADI COLLEGE OF ENGINEERING AND TECHNOLOGY, GADAG	8	1	-	1
169. SRI KRISHNA INSTITUTE OF TECHNOLOGY, BENGALURU	2	-	-	0
170. SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU	5	-	1+1	2
171. SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU	14	1	2	3
172. SRI TARALABALU JAGADGURU INSTITUTE OF TECHNOLOGY, HAVERI	2	-	-	0
173. SRI VENKATESHWARA COLLEGE OF ENGINEERING, BENGALURU	8	1	-	1
174. SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALURU	7	-	-	0
175. SRINIVAS UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY, MUKKA, MANGALURU	1	-	-	0

176. ST. ALOYSIUS (DEEMED TO BE UNIVERSITY), MANGALURU	4	1	-	1
177. ST. JOSEPH ENGINEERING COLLEGE, MANGALURU	13	2	1	3
178. ST. JOSEPHS UNIVERSITY, BENGALURU	3	1	-	1
179. ST. PHILOMENA' S COLLEGE (AUTONOMOUS), MYSURU	3	-	-	0
180. T. JOHN INSTITUTE OF TECHNOLOGY, BENGALURU	1	1	-	1
181. TERESIAN COLLEGE, MYSURU	1	-	-	0
182. THE NATIONAL INSTITUTE OF ENGINEERING, MYSURU	10	3	1	4
183. THE OXFORD COLLEGE OF ENGINEERING, BENGALURU	10	-	2+1	3
184. THE OXFORD COLLEGE OF SCIENCE, BENGALURU	1	-	-	0
185. TONTADARYA COLLEGE OF ENGINEERING, GADAG	3	-	-	0
186. UNIVERSITY B.D.T. COLLEGE OF ENGINEERING, DAVANAGERE	1	-	-	0
187. UNIVERSITY COLLEGE OF SCIENCE, TUMKUR UNIVERSITY, TUMKUR	2	-	-	0
188. UNIVERSITY VISVESVARAYA COLLEGE OF ENGINEERING, BENGALURU	1	-	1	1
189. V.S.M'S SOMASHEKHAR R. KOTHIWALE INSTITUTE OF TECHNOLOGY, NIPPANI, BELAGAAVI	4	-	1	1
190. VEMANA INSTITUTE OF TECHNOLOGY, BENGALURU	5	-	1	1
191. VIDYA VIKAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, MYSURU	9	2	1	3
192. VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU	19	3	2	5
193. VIJAYA COLLEGE, BENGALURU	2	-	-	0
194. VIJAYA VITTALA INSTITUTE OF TECHNOLOGY, BENGALURU	2	-	-	0
195. VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY, BALLARI	1	1	-	1
196. VISVESVARAYA TECHNOLOGICAL UNIVERSITY CENTRE FOR P.G. STUDIES, MYSURU	2	-	-	0
197. VISVESVARAYA TECHNOLOGICAL UNIVERSITY, DEPARTMENT OF P.G. STUDIES, BELAGAAVI	1	-	1	1
198. VIVEKANANDA COLLEGE OF ENGINEERING AND TECHNOLOGY, PUTTUR, DAKSHINA KANNADA	12	1	1	2
199. VIVEKANANDA INSTITUTE OF TECHNOLOGY, BENGALURU	1	-	-	0
200. YENEPOYA INSTITUTE OF TECHNOLOGY, MOODBIDRI, MANGALURU	11	-	1+1	2
Grand Total	**1530**	**153**	**201**	**354**

Note: The projects highlighted in yellow indicate the selected projects for Poster / Exhibition projects supported by ART-Park, IISc.

47th series of Student Project Programme (SPP): 2023-24

District-wise details of project proposals submitted and project amount sanctioned

Sl. No.	District Name	No. of Project proposals submitted	Duplicate entries of proposals	Total Projects Evaluated	No. of projects Approved	Total amount Sanctioned (Rs.)
1.	BAGALKOTE	73	-	73	20	1,05,000
2.	BALLARY	52	4	48	11	58,000
3.	BELAGAVI	395	10	385	102	4,99,000
4.	BENGALURU RURAL	359	8	351	77	3,70,000
5.	BENGALURU URBAN	2606	74	2532	654	33,41,800
6.	BIDAR	100	1	99	24	1,13,000
7.	CHIKKABALLAPURA	116	4	112	28	1,42,500
8.	CHIKKAMAGALURU	39	2	37	10	49,500
9.	CHITRADURGA	18	-	18	4	19,500
10.	CHAMARAJANAGARA	0	0	-	-	-
11.	DAKSHINA KANNADA	665	13	652	160	8,14,000
12.	DAVANAGERE	248	9	239	54	2,74,000
13.	DHARWAD	196	9	187	56	2,91,500
14.	GADAG	68	1	67	14	73,000
15.	HASSAN	73	3	70	22	1,07,500
16.	HAVERI	2	-	2	2	10,500
17.	KALABURAGI	133	4	129	25	1,21,500
18.	KODAGU	18	-	18	5	2,5000
19.	KOLARA	6	-	6	3	15,000
20.	KOPPALA	3	-	3	1	5,000
21.	MANDYA	119	4	115	27	1,38,500
22.	MYSURU	378	10	368	93	4,83,000
23.	RAICHURU	13	-	13	5	28,000
24.	RAMANAGARA	35	-	35	5	31,500
25.	SHIVAMOGGA	129	3	126	31	1,36,000
26.	TUMAKURU	192	1	191	50	2,50,250
27.	UDUPI	67	-	67	20	1,05,000
28.	UTTARA KANNADA	30	-	30	9	45,500
29.	VIJAYANAGARA	7	-	7	1	5,000
30.	VIJAYAPURA	63	-	63	17	86,500
31.	YADGIR	0	0	-	-	-
	Grand Total	**6203**	**160**	**6043**	**1530**	**77,44,550**

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012
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47th series of Student Project Programme (SPP): 2023-24

State Level Seminar and Exhibition to be held at
Sharnbasva University, Kalaburagi on 9-10 August 2024

Branch-Wise List of projects selected for Poster presentation and Exhibition projects

Branch of Engineering / Science	Total Approved Proposals	Projects Selected for Poster Presentation	Projects Selected for Exhibit project	ART-PARK Sponsored Project selected for Poster Presentation	ART-PARK Sponsored Project selected for Exhibit project
1. AERONAUTICAL ENGINEERING	33	4	4	-	-
2. AEROSPACE ENGINEERING	3	-	-	-	-
3. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	5	-	1	-	-
4. ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	53	4	8	-	-
5. AUTOMOBILE ENGINEERING	7	-	1	-	-
6. BIG DATA ANALYTICS	1	-	-	-	-
7. BIOCHEMISTRY	10	4	-	-	-
8. BIOMEDICAL ENGINEERING	1		-	-	-
9. BIOTECHNOLOGY	44	8	2	1	-
10. BOTANY	2	1	-	-	-
11. BUSINESS ANALYTICS	1		-	-	-
12. CHEMICAL ENGINEERING	9	2	-	-	-
13. CHEMISTRY	21	2	-	-	-
14. CIVIL ENGINEERING	157	24	7	-	-
15. COMPUTER AIDED DESIGN OF STRUCTURES	1	1	-	-	-
16. COMPUTER APPLICATIONS	32	9	2	1	-
17. COMPUTER NETWORKING	1	-	-	-	-
18. COMPUTER SCIENCE	3	-	-	-	-
19. COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE ENGINEERING	1	-	1	-	1
20. COMPUTER SCIENCE AND ENGINEERING	332	35	55	3	12
21. COMPUTER SCIENCE AND ENGINEERING - INFORMATION SECURITY	2	-	-	-	-
22. COMPUTER SCIENCE AND TECHNOLOGY	1	-	-	-	-
23. DATA SCIENCE	9	1	3	1	-
24. DIGITAL COMMUNICATION AND NETWORKING	2	-	1	-	-
25. ELECTRICAL AND ELECTRONICS ENGINEERING	85	4	14	-	-

26. ELECTRONICS AND COMMUNICATION ENGINEERING	255	13	48	1	4
27. ELECTRONICS AND COMPUTER ENGINEERING	5	-	1	-	-
28. ELECTRONICS AND INSTRUMENTATION ENGINEERING	14	1	2	-	-
29. ELECTRONICS AND TELECOMMUNICATION ENGINEERING	12	-	2	-	-
30. ENVIRONMENTAL BIOTECHNOLOGY	1	-	-	-	-
31. ENVIRONMENTAL ENGINEERING	4	1	-	-	-
32. ENVIRONMENTAL SCIENCE	1	1	-	-	-
33. FASHION AND APPAREL DESIGN	1	-	-	-	-
34. FASHION TECHNOLOGY	1	-	-	-	-
35. FINANCE	2	-	-	-	-
36. FINANCE AND HUMAN RESOURCE	2	2	-	-	-
37. FINANCE MANAGEMENT AND BUSINESS ANALYTICS	1	-	-	-	-
38. FINANCE, MARKETING AND HUMAN RESOURCES	1	-	-	-	-
39. FOOD PROCESSING AND NUTRACEUTICALS	1	-	-	-	-
40. FOOD SCIENCE AND NUTRITION	1	-	-	-	-
41. FOOD SCIENCE AND TECHNOLOGY	1	-	-	-	-
42. FOOD SCIENCE AND TECHNOLOGY	2	1	-	-	-
43. FOOD TECHNOLOGY	1	-	-	-	-
44. FORENSIC SCIENCE	2	-	-	-	-
45. GENETICS	1	-	-	-	-
46. HUMAN RESOURCE MANAGEMENT	1	-	-	-	-
47. INFORMATION SCIENCE AND ENGINEERING	142	7	14	1	2
48. INTERDISPINARY (ECE AND CSE)	1	-	-	-	-
49. INTERDISPINARY (IS, CV AND CSE)	1	-	-	-	-
50. INTERDISPINARY (MECHANICAL ENGINEERING AND ECE)	1	-	-	-	-
51. LIFE SCIENCE	4	1	-	-	-
52. MACHINE DESIGN	1	-	-	-	-
53. MARINE ENGINEERING	1	-	-	-	-
54. MARKETING	2	1	-	-	-
55. MBA	52	6	-	-	-
56. MECHANICAL ENGINEERING	139	5	28	-	2
57. MECHATRONICS ENGINEERING	4	-	1	-	-
58. MEDICAL ELECTRONICS	5	1	-	-	-
59. MICROBIAL TECHNOLOGY	1	-	-	-	-
60. MICROBIOLOGY	9	3	-	-	-
61. MINERAL PROCESSING	1	1	-	-	-
62. NANOCHEMISTRY	1	-	-	-	-
63. ORGANIC CHEMISTRY	5	1	-	-	-

64. PHARMA BUSINESS MANAGEMENT	1	1	-	-	-
65. PHARMACY	2	1	-	-	-
66. PHYSICS	4	-	-	-	-
67. PLANT PATHOLOGY	1	1	-	-	-
68. POLYMER SCIENCE AND TECHNOLOGY	1	1	-	-	-
69. POWER AND ENERGY SYSTEMS	2	-	-	-	-
70. PRODUCT DESIGN AND MANUFACTURING	1	-	-	-	-
71. ROBOTICS AND AUTOMATION	4	-	4	-	1
72. SOFTWARE TECHNOLOGY	2	1	-	-	-
73. STRUCTURAL ENGINEERING	10	4	-	-	-
74. TELECOMMUNICATION ENGINEERING	1	-	1	-	-
75. TRANSPORTATION ENGINEERING	1	-	-	-	-
76. VLSI DESIGN AND EMBEDDED SYSTEMS	3	-	-	-	-
77. ZOOLOGY	1	-	1	-	-
Grand Total	**1530**	**153**	**201**	**8**	**22**

47th series of Student Project Programme (SPP): 2023-24

State-Level Projects Poster presentation and Exhibition to be held at Sharnbasva University, Kalaburagi on 9-10 August 2024

KSBDB, GoK Supported projects – Branch-Wise List of projects selected for Poster presentation and Exhibition projects

Sl. No.	Course	Selected Poster presentation	Selected Exhibition
1.	BE	02	05
2.	M.Tech	01	-
3.	M.Sc.	04	-
4.	MBA / MCA	03	-
Total		**15**	

47th series of Student Project Programme (SPP): 2023-24

State-Level Projects Poster presentation and Exhibition to be held at Sharnbasva University, Kalaburagi on 9-10 August 2024

ART-Park Supported projects - College Wise List of projects selected for Poster presentation and Exhibition projects

Name of the Institution	ART-PARK Sponsored Project selected for Poster Presentation	ART-PARK Sponsored Project selected for Exhibit project	Total No. of Projects Selected for Poster / Exhibit
1. A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY, MANGALURU	1	-	1
2. AMRITA VISHWA VIDYAPEETHAM BENGALURU CAMPUS, BENGALURU	-	3	3
3. B.G.S. INSTITUTE OF TECHNOLOGY, MANDYA	-	1	1
4. B.L.D.E.A'S V.P. DR. P.G.HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA	1	-	1
5. BASAVAKALYAN ENGINEERING COLLEGE, BASAVAKALYANA	-	1	1
6. BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU	-	1	1
7. DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU	-	1	1
8. G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE	-	1	1
9. GARDEN CITY UNIVERSITY, BENGALURU	2	-	2
10. GLOBAL ACADEMY OF TECHNOLOGY, BENGALURU	-	1	1
11. GOVERNMENT ENGINEERING COLLEGE, DODDAMANNUGUDDE, RAMANAGARA	-	1	1
12. GURU NANAK DEV ENGINEERING COLLEGE, BIDAR	-	1	1
13. H.K.B.K. COLLEGE OF ENGINEERING, BENGALURU	1	-	1
14. HIRASUGAR INSTIUTE OF TECHNOLOGY, BELAGAAVI	-	1	1
15. J.S.S. ACADEMY OF TECHNICAL EDUCATION, BENGALURU	1	-	1
16. JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIVAMOGGA	1	-	1
17. M.S. RAMAIAH UNIVERSITY OF APPLIED SCIENCES, BENGALURU	-	1	1
18. RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU	-	1	1
19. REVA UNIVERSITY, BENGALURU	1	1	2
20. S.G. BALEKUNDRI INSTITUTE OF TECHNOLOGY, BELAGAAVI	-	1	1
21. S.J.B. INSTITUTE OF TECHNOLOGY, BENGALURU	-	1	1
22. S.J.M. INSTITUTE OF TECHNOLOGY, CHITRADURGA	-	1	1
23. SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU	-	1	1
24. THE OXFORD COLLEGE OF ENGINEERING, BENGALURU	-	1	1
25. VIDYA VIKAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, MYSURU	-	1	1
26. YENEPOYA INSTITUTE OF TECHNOLOGY, MOODBIDRI, MANGALURU	-	1	1
Grand Total	**8**	**22**	**30**

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012
Website: www.kscst.org.in || Email: spp@kscst.org.in || Tel: 080-2334 1652,2334 8848/49/40

47th series of Student Project Programme (SPP): 2023-24

State Level Seminar and Exhibition to be held at
Sharnbasva University, Kalaburagi on 9-10 August 2024

Branch-Wise List of ART-Park, IISc supported projects selected for Poster presentation and Exhibition projects

BRANCH OF ENGINEERING / SCIENCE	PROJECTS SPONSORED BY ART PARK, IISc	ART-PARK Sponsored Project selected for Poster Presentation	ART-PARK Sponsored Project selected for Exhibit project
1. ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	5	-	-
2. BIG DATA ANALYTICS	1	-	-
3. BIOTECHNOLOGY	1	1	-
4. COMPUTER APPLICATIONS	4	1	-
5. COMPUTER NETWORKING	1	-	-
6. COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE ENGINEERING	1	-	1
7. COMPUTER SCIENCE AND ENGINEERING	44	3	12
8. DATA SCIENCE	1	1	-
9. ELECTRICAL AND ELECTRONICS ENGINEERING	3	-	-
10. ELECTRONICS AND COMMUNICATION ENGINEERING	30	1	4
11. ELECTRONICS AND COMPUTER ENGINEERING	1	-	-
12. ELECTRONICS AND INSTRUMENTATION ENGINEERING	5	-	-
13. ELECTRONICS AND TELECOMMUNICATION ENGINEERING	1	-	-
14. INFORMATION SCIENCE AND ENGINEERING	18	1	2
15. MECHANICAL ENGINEERING	5	-	2
16. MEDICAL ELECTRONICS	1	-	-
17. ROBOTICS AND AUTOMATION	1	-	1
18. VLSI DESIGN AND EMBEDDED SYSTEMS	1	-	-
Grand Total	**124**	**8**	**22**

KSCST

Dept., of Science & Technology, Govt. of Karnataka

Dept., of Science & Technology, Govt. of India

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KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru -560012. Tel: 080 -23600978, 23341652

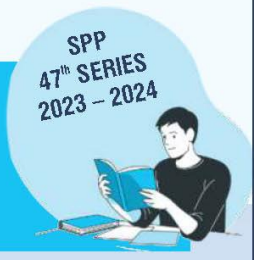
Email: spp@kscst.org.in | Website: www.kscst.org.in/spp.html or https://kscst.karnataka.gov.in

STUDENT PROJECT PROGRAMME

(SPP - 47th SERIES: 2023 – 2024)

KSCST invites project proposals from the final year BE, B. Arch., M.Tech., M.Sc., M.Tech., / M.Sc. (Agriculture), MBA & MCA students for sponsorship, under the 47th series of Student Project Programme (SPP).

The project proposals has to be submitted through Google Form from 1st December 2023 to 20th February 2024



The submitted projects shall mandatorily be from one of the broad indicative themes / areas as below:

- Structural Engineering, Geotechnical Engineering, Geomatics, Construction Technology and Management
- Water and Environment Engineering, Transportation Engineering, Industrial and System Engineering
- Energy Engineering, Energy for Sustainable Development, Waste Management
- Data Science, Cyber Security, Computing, Pattern Recognition and Image Processing, Signal Processing
- Big Data, integrating Internet of Things, Artificial Intelligence and Data Engineering (agriculture, health, education, digital literacy)
- Networking and Communication Engineering, Embedded Systems, VLSI Design, Robotics
- Power System Engineering, Electric Vehicles, Smart Grid Technologies and Micro-grids
- Materials and Design Engineering, Thermal and Fluid Engineering, Manufacturing Processes and Analysis
- Control and Automation, Biomedical Engineering, Sensors and Measurement Techniques
- Rural Engineering and Technical support, Smart cities and infrastructure development
- Biological / Medical Science, Physical Science, Chemical Science, Agriculture Science, Biotechnology
- Healthcare management, Information Technology, Resources and Environmental Management.



Final year students of B.E., B. Arch, M.Tech, M.Sc., M.Tech / M.Sc. (Agriculture), MBA and MCA

How to apply

- The Project Proposals shall be prepared as per the SPP proposal format available in KSCST website.
- Each institution can submit maximum of only 20 proposals from each branch.
- The concerned faculty shall initially scrutinize the project proposals, conduct in-house evaluation of projects and then submit the best project proposals for support.
- The team members are advised to carry out literature review and prior-art-search before submitting the project proposal to check the novelty of the project.
- The project team shall have a maximum of 4 students and each project team shall submit only one proposal as per the themes indicated above. Any other project proposals will not be considered and are liable for rejection.
- The team leader of the project needs to mandatorily fill the Google Form (Link: https://forms.gle/mE8Q4pM2nwZQuHbi9
- Please go through the "instructions for submission of project proposal" published in the website.
- The processing fee of Rs. 1,000/- (Rupees One Thousand only, inclusive of GST) to be paid through NEFT transfer / UPI Payment only (Bank details of KSCST is in the project proposal format, available in Website).
- The processing fees paid for the project proposal is non-refundable / non-transferable.
- The proposal accepted only through Google form with the following attachments. (Students / institutions shall not send the hardcopy of the project proposals to KSCST)
  a. Pdf of project proposal with attestation from Project guide / head of the department and institution
  b. Scanned copy of Declaration and Endorsement from Head of the Institution
  c. Copy of Processing fee details
- The Details of SPP Co-ordinator is mandatory for the submission of the proposal.
- The last date for submission of project proposal will not be extended and is as per the schedule.

Evaluation Process:



- The submitted projects will be evaluated by experts and then short-listed for sponsorship. The sponsored amount for the project will be sent to the principal of respective institutions by NEFT.
- The sponsored projects will be evaluated by an expert committee, either offline / online and then shortlisted for final state-level seminar and exhibition.
- The shortlisted projects after mid-term evaluation will be called for State level seminar / exhibition followed by evaluation for the coveted "Best Project of the Year Award".

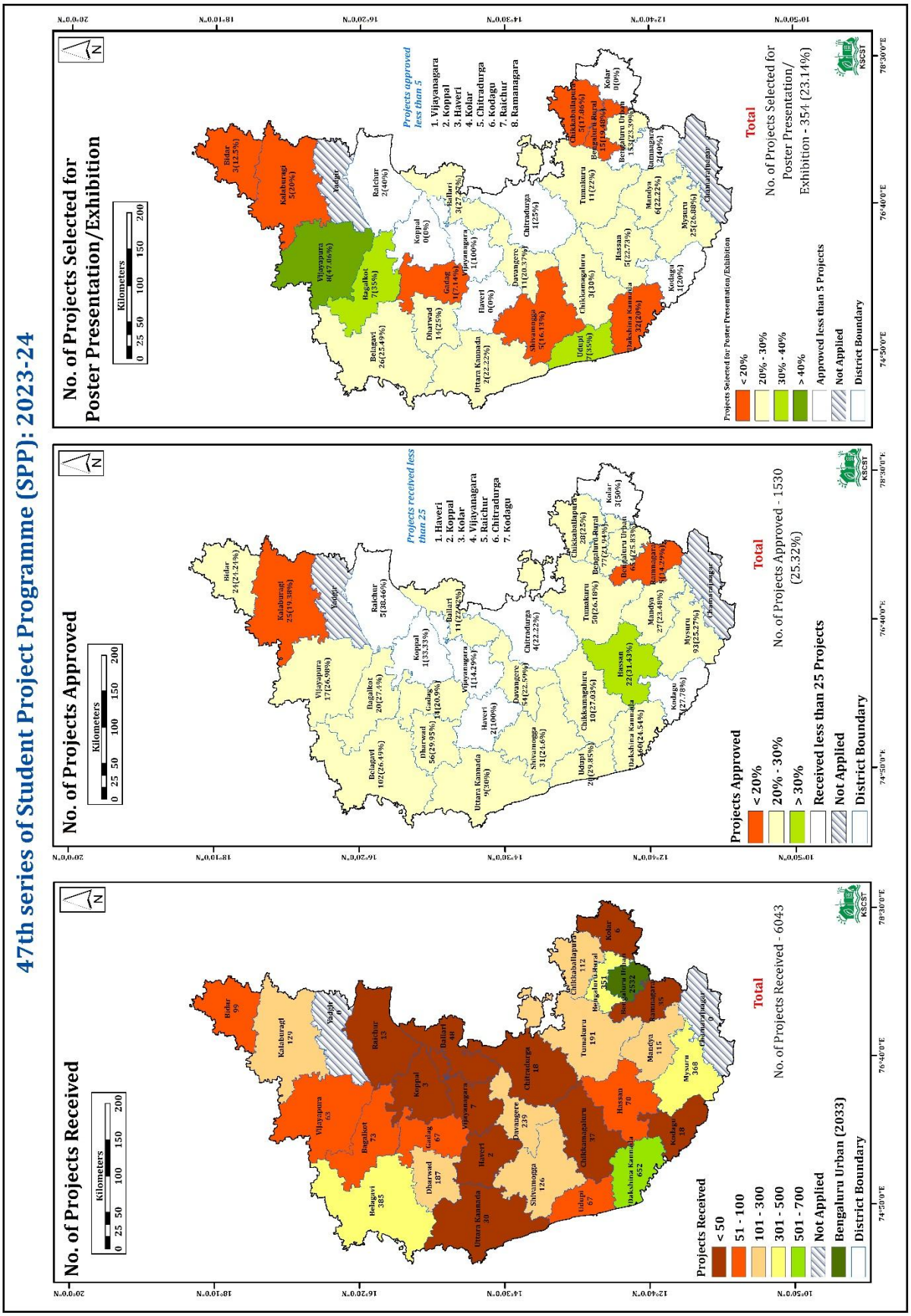
DATES TO REMEMBER



Last date for Submission of Proposals via Google Form	20th February 2024, 5.30 PM
Announcement of Selected Projects for Sponsorship	March / April 2024
Midterm Evaluation of Sponsored Projects (Online Mode)	May – June 2024
Synopsis & Final Project Report submission through Google Form	May – June 2024
Seminar and Exhibition of Selected Projects	July / August 2024

THIS PROGRAMME IS SUPPORTED BY: Department of Science and Technology, Government of India and Department of Science and Technology, Government of Karnataka

Representation of statistics of 47th series Student Project Programme



Karnataka State Council for Science and Technology

Indian Institute of Science campus, Bengaluru

Experts List for 47th series Student Project Programme (SPP)

Indian Institute of Science, Bengaluru

Sl. No.	Name	Designation & Department
1.	Prof. Mohan Rao G	Professor, Department of Instrumentation and Applied Physics
2.	Prof. Venkatarama Reddy B V	Former Professor & Chairman, Civil Engineering
3.	Prof. Praveen C. Ramamurthy	Professor, Department of Materials Engineering
4.	Prof. T. Srinivas	Associate Professor, Department of Electrical Communication Engineering
5.	Prof. Shayan Srinivasa Garani	Associate Professor, Department of Electronics Systems Engineering
6.	Prof. Pramod Kumar	Associate Professor, Department of Mechanical Engineering
7.	Prof. Varsha Singh	Associate Professor, Department of Developmental Biology & Genetics (formerly MRDG)
8.	Prof. Lakshminarayana Rao	Associate Professor, Centre for Sustainable Technologies
9.	Dr. Srimonta Gayen	Assistant Professor, Developmental Biology and Genetics
10.	Dr. Susmita Dash	Assistant Professor, Mechanical Engineering
11.	Dr. U. Chandini	Assistant Professor, Instrumentation and Applied Physics
12.	Dr. Shantanu P. Shukla	Assistant Professor, Developmental Biology and Genetics
13.	Dr. Ankur Chauhan	Assistant Professor, Department of Materials Engineering
14.	Dr. Sachin Rondiya	Assistant Professor, Department of Materials Engineering
15.	Dr. Manish Arora	Assistant Professor, Centre for Product Design and Manufacturing (CPDM)
16.	Dr. Jayaprakash	Assistant Professor, Instrumentation and Applied Physics
17.	Dr. Manukumara Manjappa	Assistant Professor, Instrumentation and Applied Physics
18.	Dr. Ravi Raju	Chief Research Scientist, Department of Materials Engineering

19.	Dr. B Subba Reddy	Chief Research Scientist, High Voltage Laboratory, Department of Electrical Engineering
20.	Dr. Nanjunda Rao K. S.	Chief Research Scientist, Civil Engineering
21.	Dr. Rathna G N	Chief Research Scientist, Department of Electrical Engineering
22.	Dr. Raghuveer Rao P	Principal Research Scientist, Department of Civil Engineering
23.	Dr. Ravindranath H. Aladakatti	Principal Research Scientist, Central Animal Facility
24.	Dr. Chalapathi Rao N V	Former Principal Research Scientist, Department of Electronic Systems Engineering
25.	Dr. Krishna Kumar M	Former Principal Research Scientist, Department of Electronic Systems Engineering
26.	Dr. Mudakavi J R	Former Chief Research Scientist, Department of Chemical Engineering
27.	Dr. Shenoy U J	Former Chief Research Scientist, Department of Electrical Engineering

Talent Development Centre, Indian Institute of Science, Challakere campus

Sl. No.	Name	Designation & Department
1.	Dr. S. Aravinda	Institute of Eminence Teaching Fellow Indian Institute of Science, Challakere, Chitradurga
2.	Dr. Mohammad Mushaf	Institute of Eminence Teaching Fellow Indian Institute of Science, Challakere, Chitradurga

CSIR - National Aerospace Laboratories (NAL), Bengaluru

Sl. No.	Name	Designation
1.	Dr. Venkateshwarlu Karodi	Chief Scientist, Materials Science Division, CSIR - NAL
2.	Dr. Kota Solomon Raju	Chief Scientist & Head, Information and Communications Technology Division (ICTD), CSIR - NAL
3.	Dr. V. P.S. Naidu	Chief Scientist & Professor (AcSIR), Multi-Sensor Data Fusion Lab, CSIR - NAL
4.	Dr. Sivasubba Rao P	Senior Principal Scientist, Structural Technological Division, CSIR - NAL
5.	Dr. Chakradhar R P S	Principal Scientist, Surface Engineering Division, NAL
6.	Dr. Dwarakanathan D	Senior Principal Scientist, Structural Technological Division, CSIR - NAL

7.	Dr. Panbarasu K	Principal Technical Officer, Structural Integrity Division, CSIR - NAL
8.	Dr. Ranganathan V R	Former Chief Scientist, CSIR-NAL

Other R & D Institutions and Private establishments

Sl. No.	Name	Designation and Institute
1.	Mr. Arun Kumar J. G.	Joint Director & Group Head, Product Design and engineering (PDE), Central Manufacturing Technology Institute (CMTI), Bengaluru
2.	Dr. Venugopal B V	Former Technical Expert, Central Manufacturing Technology Institute (CMTI), Bengaluru
3.	Dr. Arulalan M R	Former Assistant Professor, Department of Electronics & Communication Engineering, NITK, Surathkal, Mangalore
4.	Dr. Manisha D. Mujumdar	Technical Engineer, Bengaluru
5.	Shri. Narasimhan S M	Technical Expert, Mysuru
6.	Dr. Ashok Rao	Technical Expert, Mysuru
7.	Mr. Dayananda G.N.	Manager, Karnataka State Bioenergy Development Board, Government of Karnataka

Karnataka State Council for Science and Technology (KSCST)

Sl. No.	Name	Designation	
1.	Dr. U T Vijay	Executive Secretary I/c., and Chief Scientific Officer	
2.	Mr. Venkatesh K N	Senior Project Engineer	Implementation and Co-ordination of SPP Activity
3.	Mrs. Anjani	Project Engineer	

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PROJECTS AWARDED UNDER THE 47TH SERIES OF SPP

1. EXPERIMENTAL ANA ANALYTICAL STRENGTH INVESTIGATION OF REPAIRED FRP LAMINATES

Project Reference No.: 47S_BE_3284

College : *Nitte Meenakshi Institute of Technology, Bengaluru*
Branch : *Aeronautical Engineering*
Guide(s) : *Mr. Ram Vishal*
Students : *Mr. Shashi Kumar S., Ms. Pragathi B. S., Mr. Shree Naresh*

Keywords: Carbon Fiber Laminates(CFL), vaccum bagging process, Meshing model, automated repair processes

Objectives:

- During the development stage, we concentrate on producing premium glass fiber laminates (GFL) and carbon fiber laminates (CFL) while paying close attention to detail and following industry guidelines.
- As we proceed to the testing stage, we do mechanical tests such tensile and flexural strength evaluations to determine the GFL and CFL's baseline characteristics.
- This stage is critical because it allows us to build a solid data set for the assessment and comparison of laminates that have been repaired later on.
- Moving on to repair methods, we explore state-of-the-art approaches designed for damaged GFL and CFL, using uniform materials for a single repair set.
- We also investigate the performance of glass-carbon hybrid materials in a different set of repair circumstances. By using these all-encompassing methods,
- Streamline production methods to achieve consistent quality and minimize defects in glass fibre laminates.
- Investigate failure modes through testing to understand how glass fiber laminates respond to various stresses and identify potential weaknesses.
- Implement robust quality control measures during manufacturing to detect and rectify defects early in the production process.
- Develop effective and efficient repair techniques for damaged glass fiber laminates, addressing issues such as delamination or surface damage.

Methodology:

Selection of materials: The materials like carbon Fiber and glass fibers of 5 layers laminated by vaccum bagging process with thickness 1.5 mm as per GSM and ASTM standards

Design of specimen: Selecting suitable joints for before and after failure of the specimen. scarf repairs provide a significant recovery of residual strength in damaged composite and also double lap joints.

Fracture of designed specimen: By using Universal testing machine conducting tensile test and bending test to known ultimate strength and young's 'modulus

Repair with homogeneous and non- homogeneous: After breaking the specimen repaired with two different specimen a suitable adhesive bond

Testing of repaired material: conducting 15 trails of testing for carbon-fiber specimen and also for glass laminated composites

Comparison of result for homogeneous and non- homogeneous repair: evaluating the each graph and to know which is better.

Result and conclusion:

Repairing glass with the same base material may not ensure 100% success under bending force, whereas alternative materials like carbon or Kevlar showed complete success rates. Carbon proved highly effective in restoring strength, especially when used as a repair material for both glass and Kevlar. Kevlar demonstrated remarkable consistency in restoring strength, even when used as a repair material for itself. Utilizing alternative materials like carbon or Kevlar for repair may lead to more reliable outcomes under bending force compared to repairs using the same base material.

2. INTEGRATED PEST MANAGEMENT STRATEGIES AND ESTERASE ANALYSIS FOR CONTROLLING FALL ARMYWORM INFESTATIONS IN GRAMINAEAE CROPS: A STUDY ON THE ROLE OF TEPHROSIA PURPUREA AND PORTULACA OLERACEA EXTRACTS

Project Reference No.: 47S_MSC_0009

College : *REVA University, Bengaluru*
Branch : *Biochemistry*
Guide(s) : *Dr. Sharadamma N*
Students : *Ms.C.Sudha Mayu, Ms. Sushma Sunkad and Mr.Ganesh.K L*

Keywords: Armyworm infestation, Plant extracts, Natural alternatives, Pest control measures, Esterase enzyme, Tephrosia purpurea, Portulaca oleracea, Sustainable pest control

Introduction:

The emergence and spread of agricultural pests pose significant challenges to global food security and crop production. Among these pests, Spodoptera frugiperda, commonly known as the fall armyworm, stands out as a highly destructive invader with a broad host range, including crucial crops like maize, rice, and cotton. Its rapid spread and voracious feeding habits have raised alarms, particularly in regions like India, where small-scale farmers heavily rely on these crops for their livelihoods.

Researchers and practitioners are actively studying the fall armyworm to better understand its biology, genetic diversity, and interactions with natural enemies. These efforts emphasize the importance of developing integrated pest management (IPM) strategies that combine biological control methods with conventional approaches. Recent studies focus on various aspects of fall armyworm management, particularly in India, where natural enemies like parasitoids and predators are highlighted as potential biological control agents. Additionally, these studies underscore the genetic similarity between Indian fall armyworm populations and those in other countries, emphasizing the necessity for coordinated global pest management efforts.

Some offer a comprehensive examination of the economic implications and management approaches related to fall armyworm infestations in diverse crops globally. It emphasizes the importance of precise data and tailored management strategies to address the complex challenges posed by this invasive pest.

Roughly few studies explore eco-friendly approaches to managing Spodoptera exigua, advocating for integrated pest management strategies that incorporate biological, microbial, and cultural controls. Additionally, Tephrosia purpurea, known as Wild Indigo, has been utilized for centuries in traditional medicine and is gaining attention for its potential in agricultural pest control. Its abundance, cost-effectiveness, and eco-friendliness make it a practical choice for farmers, particularly in resource-limited areas. Tephrosia purpurea is seen as a sustainable alternative to chemical pesticides, causing less harm to the environment while effectively managing pests.

Recent studies on Tephrosia purpurea highlight its effectiveness in controlling mosquito populations, attributed to its natural toxin, Rotenone. These studies found that extracts from Tephrosia purpurea can effectively kill mosquito larvae, which transmit diseases like filariasis. Further investigations into the toxicity effects of methanolic extracts from Tephrosia purpurea leaves and stems reveal promising results. These extracts exhibit toxicity against mosquito larvae and induce morphological deformities, indicating their potential as natural pesticides for controlling mosquito populations. Overall, these findings suggest that Tephrosia purpurea extracts could serve as eco-friendly and effective tools in controlling disease spread by mosquitoes.

Considering the growing concern about the environment and the need for safer pest control methods, Tephrosia purpurea seems like a good solution. Our project aims to explore more about the effect of Tephrosia purpurea, which can be used to manage pests sustainably in agriculture and improve public health. Through studying its natural compounds and their mechanism, we hope to contribute to finding better, greener ways to control pests and protect our environment.

Portulaca oleracea, commonly known as purslane, is a versatile plant with a rich history of traditional medicinal uses and culinary applications. In recent years, scientific research has discovered various aspects of this plant, and exploring it has contributed to our understanding of Portulaca oleracea and its diverse range of bioactivities.

Recent studies isolate polysaccharides with antitumor and immunoregulatory activities, suggesting potential applications in cancer treatment and immunotherapy. Phytochemical analyses reveal its antioxidant properties, indicating relevance in functional foods and nutraceuticals. Furthermore, research on its anti-insect properties elucidates mechanisms inhibiting insect larvae growth, contributing to natural pest management strategies and highlighting its ecological significance in agricultural ecosystems.

Collectively, these studies showcase a multidisciplinary approach to exploring the bioactive compounds and agricultural potential of T. purpurea and P. oleracea-related plant species. This research aims to harness their full benefits for therapeutic and agricultural purposes, promoting sustainability and resilience in global food systems.

Objectives:

- This study aims to investigate the potential of plant extracts from Tephrosia purpurea, Portulaca oleracea in controlling armyworm infestations.
- Assess the effect of plant extracts on esterase activity in armyworms as a potential mechanism for insect control.
- To reveal insights into the biochemical mechanisms underlying the inhibitory effects of these plant extracts on armyworm.
- To contribute to the development of sustainable pest management strategies and enhance our understanding of enzyme purification for potential industrial applications.
- To explore the effectiveness of natural plant extracts as alternatives to synthetic pesticides for managing armyworm infestations in maize crops.
- Encourage the adoption of eco-friendly pest management strategies that minimize harm to non-target organisms, soil health, and water quality.

Methodology:

Treatment Of Armyworms: Armyworm treatment was entailed directly feeding the plants to armyworms, with worms fed maize plants serving as the control. This process continued for 3-4 days.



Figure: Experimental feeding of armyworms directly with the Tephrosia purpurea, Portulaca oleracea, and for control, the worms are fed with the maize

Laboratory Assay: Worms treated using direct plant feed were weighed, crushed in a mortar with a pestle under cold conditions, and centrifuged at 10,000rpm at 4°C for 15 minutes. The supernatant was collected, transferred to new vials, and stored at -70°C for further analysis.

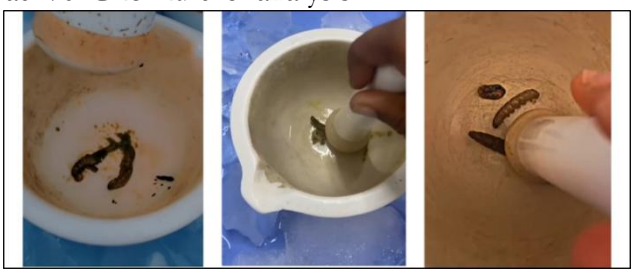


Figure: Illustrates the picture of crushing the worms treated with the plant's separation and analysis

Esterase Activity:

Preparation of Substrate Solution: A solution was prepared by diluting α-naphthyl acetate stock in acetone in 0.01M phosphate buffer. Enzyme Preparation: The enzyme stored at -70°C was diluted in a 1:10 ratio using phosphate buffer. Diazoblue-Sodium Lauryl Sulphate Solution: A solution of DBLS was prepared using 1% Diazoblue B and 5% SDS, resulting in a strong red or blue colour. Absorbance measurements were taken at 600nm using a UV-VISIBLE spectrophotometer. Procedure: Enzyme (0.01mL) was mixed with phosphate buffer to make up 1mL, followed by the addition of 1mL of substrate solution and incubation for 15 minutes. After incubation, 1mL of DBLS was added, resulting in an immediate colour change to stable blue, and absorbance was measured at 600nm.

Estimation Of Protein:

The protein concentration was determined using the Bradford method (Bradford, 1976). protein samples were mixed with Bradford reagent.

Absorbance was measured at 595 nm using a spectrophotometer. Protein concentration was calculated using a standard curve generated with known concentrations of bovine serum albumin (BSA).

SDS PAGE: Analysis of protein pattern was carried out using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE). The resolving gel and stacking gel, containing 30% acrylamide, underwent electrolysis at 100 V for 70 minutes. Subsequently, the gel was extracted and stained using a staining solution.

NATIVE PAGE (N-PAGE): Native PAGE analysis is performed to assess differences in esterase activity among treatment groups. This technique preserves the native conformation and charge of proteins, providing insights into their functional properties and any alterations caused by the treatments.

Purification And Characterization: The purification process of the esterase enzyme involved ion exchange chromatography, specifically using DEAE Cellulose and Sephadex G200. DEAE Cellulose was activated by soaking it in distilled water overnight, followed by a series of washes with acid and base followed by equilibration with phosphate buffer. The sample was then loaded onto the column, and fractions were collected, including flow-through and wash fractions. Bound proteins were eluted stepwise with increasing concentrations of NaCl, and fractions were collected for analysis. Esterase activity was assessed in all fractions, and a graph was plotted to visualize the distribution of activity. Overall, the purification process successfully purifies the esterase enzyme, as indicated by the analysis of fractions for esterase activity. This purification process separates the enzyme from other proteins and contaminants, allowing for further characterization. The purified enzyme is then characterized by determining its kinetic properties, such as the Michaelis constant (Km) and maximum velocity (Vmax). The activity of the esterase enzyme was measured using a spectrophotometric assay with α-naphthol acetate and methyl gallate as the substrates. The absorbance of samples was recorded at specific wavelengths to determine enzyme activity. The enzyme's substrate specificity was examined to understand which substrate it can cleave. This involved testing the enzyme activity with various substrate concentrations. The graph was plotted by taking 1/[S] and 1/[V] on the X-axis and Y-axis respectively.

Comparative Analysis of Plant-Fed Armyworm and Synthetic Pesticides: In this study, we conducted a comparative analysis between plant fed armyworms and pesticide treated to assess their efficacy in inhibiting armyworms. Specifically, we examined the effects of Portulaca oleracea-fed armyworm extract as a potential natural alternative to synthetic pesticides. The experiment involved subjecting armyworms to both the plant extract and the synthetic pesticide, observing and measuring their inhibitory effects.

Conclusions:

ESTERASE ASSAY: The esterase activity was measured using a spectrophotometric assay with α-naphthol acetate as the substrate.

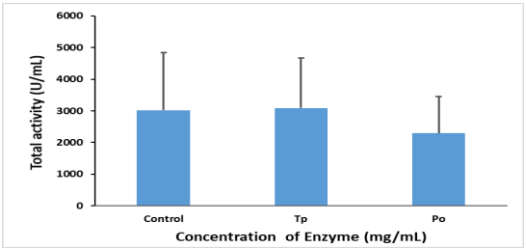


Figure: Illustrates the total activity of esterase in control, Tephrosia purpurea, Portulaca oleracea treated worm extracts

The esterase activity in the Tephrosia purpurea treated worm extracts was higher compared to the control, Portulaca oleracea, indicating the presence of an active esterase enzyme. The lower esterase activity is a significant result, that shows that the Portulaca oleracea shows an inhibitory effect on the enzyme activity.

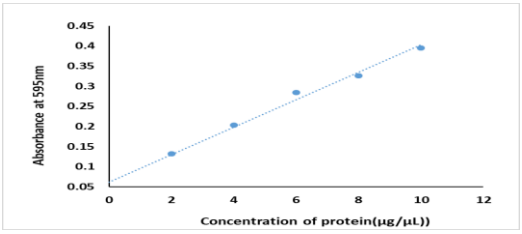
	Trail 1 Total Activity (U/mL)	**Trail 2 Total Activity (U/mL)**	**Trail 3 Total Activity (U/mL)**	**Average Total Activity (U/mL)**	**std. deviation**
Control	4976.2	2706.6	1375.1	3019.3	1820.800997
T. purpurea	4505.6	3367.7	1393.3	3088.86	4174.355101
P. oleracea	3389.7	2403.3	1085.7	292.9	663.243354

Table 1: Illustrates the total activity of esterase in control, Tephrosia purpurea, Portulaca oleracea treated worm extracts



Graph 1: Illustrates the graph of esterase total activity in armyworms directly treated with control, Tephrosia purpurea, Portulaca oleracea plants.

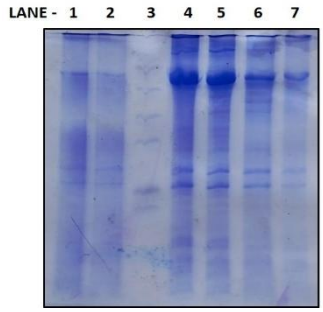
BRADFORD ASSAY:



Graph 2: Illustrates the graph of the standard curve of protein

By the standard curve, we determined: Protein concentration of control: 0.6µg/µl
Protein concentration of Tp: 0.2µg/µL
Protein concentration of Po: 1.6µg/µL

SDS-page:



lane 1 & lane 2 - Portulaca oleracea

lane 3 – Pre - stained protein ladder

lane 4 & lane 5 - Tephrosia purpurea

lane 6 & lane 7- Control

Protein profile on SDS-PAGE

The SDS-PAGE analysis revealed that, the protein degradation is observed in the Portulaca oleracea treated armyworms sample compared to the control and Tephrosia purpurea. the Portulaca oleracea plant appears to have maximum effect on the armyworms where Tephrosia purpurea shows minimal effect.

Native page:



lane 1 - control

lane 2 - Tephrosia purpurea

lane 3 - Portulaca oleracea

Figure: Native PAGE analysis of esterase activity in armyworms treated with plant extracts

These bands displayed varying intensities and migration patterns across the different gel percentages. However, in the Portulaca-treated sample, esterase activity was lower compared to both the control and Tephrosia-treated samples. It shows potential inhibitory effect of Portulaca oleracea extract on esterase enzyme activity in the armyworm.

Ion exchange chromatography:

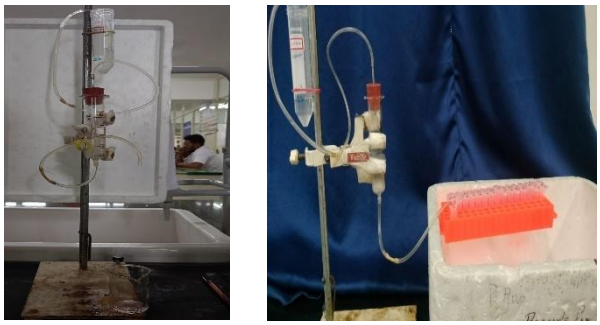


Figure: Elution of Esterase Enzyme from DEAE Cellulose

In the Ion exchange chromatography of esterase activity, five distinct peaks were observed. peak 1 eluted at the 100mM of Nacl, peak 2 eluted at the 200mM of Nacl, peak 3 eluted at the 400mM of Nacl, peak 4 eluted at the 400mM of Nacl, peak 5 eluted at the 500mM of Nacl.

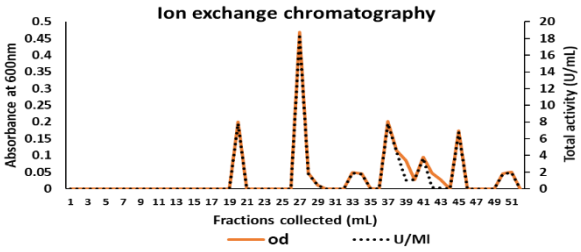
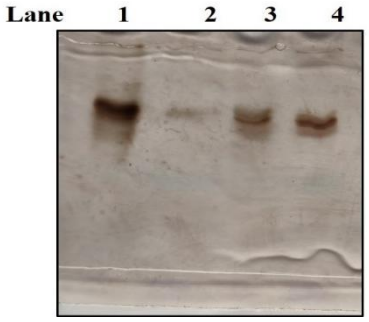


Figure: Elution profile of Esterase Enzyme from DEAE Cellulose

The presence of multiple peaks suggests the presence of different esterase isoforms or substrates with varying affinities for the ion exchange column. The observed peaks may correspond to different enzymatic forms or substrate specificities within the sample.



lane 1- control

lane 2- control + pesticide

lane 3- Portulaca oleracea

lane 4- Tephrosia purpurea

Figure: Comparative Analysis of plant-Fed Armyworm Extract and Synthetic Pesticide

The results revealed that the synthetic pesticide control exhibited a higher level of inhibition against armyworm infestations compared to the Tephrosia-fed armyworm extract. While both treatments demonstrated inhibitory effects. However, it is noteworthy that the Portulaca oleracea-fed armyworm extract displayed significant inhibition. Understanding how different ingredients interact could help us create more powerful bug-fighting formulas. The purified compounds from plants will display a better inhibitory effect than direct plants. Portulaca oleracea extract shows promise as a potential alternative for eco-friendly pest management strategies.

Scope for future work:

Scope for future work in this research project provides exciting opportunities for further investigation and improvement. Firstly, we can look into better ways of getting strong bug-killing substances from Tephrosia purpurea and Portulaca oleracea by trying different methods and parts of the plants. Secondly, we can explore how these plant extracts might work even better when combined or mixed with other natural or man-made chemicals. Understanding how different ingredients interact could help us create more powerful bug-fighting formulas. We also need to see how using plant-based bug control methods might affect things like soil health, how well crops grow, and the balance of nature in the long run. Studying this over time will help us figure out if these methods are good for the environment and if they can be used widely. Moreover, we can test if these plant extracts can fit into bigger plans for managing pests, which include lots of different ways of dealing with bugs. By trying them out in real fields, we can see if they work well, are affordable for farmers, and if farmers like using them. Additionally, we should keep learning about how these plant extracts stop bugs from growing and spreading. Understanding this at a molecular level can help us make better bug-control methods that are more specific and don't harm other living things as much. Over all, the future of this research is exciting and can lead to better ways of controlling pests in agriculture that are good for the environment and for farmers.

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3. DEVELOPMENT OF BIODEGRADABLE SACS FOR FRUIT RIPENING USING RICE STARCH

Project Reference No.: 47S_BE_3257

College : *GM Institute of Technology, Davanagere*
Branch : *Biotechnology*
Guide(s) : *Dr. Gurumurthy H & Dr Pradeep M J*
Students : *Ms. Namitha H N, Ms. Navya J M, Ms. Priya R P and Ms.Tanaya Tiwari*

Keywords: Bioplastic, Rice starch, Biocompatibility, Ethylene, Ripening

Introduction:

In recent years, as environmental concerns have taken centre stage, the quest for sustainable solutions has become more urgent than ever. One area where this quest has been particularly pronounced is in the realm of packaging, especially for food products. In response to the detrimental effects of traditional plastic packaging on the environment, scientists and researchers have been tirelessly exploring alternative materials that are both effective and eco- friendly. One such innovation is the development of a biodegradable sac for fruit ripening, utilizing the versatile properties of rice starch. At the heart of this endeavour lies the recognition of rice starch as a promising candidate for biodegradable packaging. Rice starch, derived from one of the world's most widely cultivated grains, possesses several characteristics that make it an ideal material for this purpose. Not only is rice starch abundant and renewable, but it also boasts impressive biodegradability, breaking down naturally into harmless byproducts over time. Additionally, its inherent biocompatibility ensures that it poses minimal risk to both human health and the environment.

The journey towards the creation of the biodegradable sac for fruit ripening has been marked by meticulous research and experimentation. On one hand, the sac must provide adequate protection for the fruit, shielding it from external factors that could compromise its quality. On the other hand, it must also facilitate

the ripening process, allowing the fruit to mature naturally and develop its characteristic flavour and aroma. Achieving this delicate balance has required a nuanced approach, with researchers fine-tuning the composition and structure of the sac to optimize its performance. The development of the biodegradable sac for fruit ripening holds immense promise for the future of sustainable packaging. Not only does it offer a viable alternative to traditional plastic packaging, but it also represents a significant step towards reducing the environmental impact of food production and distribution. By harnessing the power of rice starch, researchers have unlocked a pathway to greener, more sustainable packaging solutions that benefit both people and the planet. As the journey towards sustainability continues, the development of innovative solutions like the biodegradable sac for fruit ripening serves as a beacon of hope.

Objectives:

- To extract the starch from rice grains.
- To prepare a biodegradable sac from the extracted starch.
- To determine the sustainability of the Biosac.

Methodology:

1. *Extraction of starch from white rice grains:*

100g of white rice grains is collected. These rice grains are washed and boiled with water. These rice grains are subjected to grinding in a mortar with 100ml distilled water. The mixture was filtered and the remaining solid mass was put into the mortar. The procedure is repeated 5 times to obtain more starch. This blend was allowed to settle in the beaker for 5mins, then 100ml of purified water is added and is agitated softly. The water is removed after repeating the above process 3-4times and the starch, white in colour, is obtained.



Figure: Soaked rice grains



Figure: Grinded rice gains



Figure: Filtration



Figure: Liquid mass



Figure: Settling of mass



Figure: Supernatant



Figure: Sundried



Figure: Grinded



Figure: Rice Starch

2. *Preparation of sac with extracted rice starch:*

The extracted starch is mixed with 100ml of distilled water along with additives. These additives are as follows:

- Glycerol: Act as plasticizer
- Vinegar: Provides smoother and more consistent texture by breaking the starch molecules for a more uniform film
- Gelatin: Improves flexibility, enhances strength, biodegradable in nature and versatile which makes it compatible with starch.

The mixture is stirred at a rate of 180rpm for 10mins, then the mixture is heated on a hot plate at 100°C and manual stirring is done for 70mins continuously. The mixture is casted onto a flat, levelled, non-stick trays to set. Once set, the trays are held over-night in microwave at 55°C for 10hrs undisturbed and then cooled at ambient temperature for 3-4 days before peeling the films off the trays.

Table: Different ratios of Starch, Glycerol, Gelatine, Vinegar and Water

SAMPLE	RICE STARCH (in grams)	GLYCEROL (in ml)	VINEGAR (in ml)	GELATIN (in grams)	WATER (in ml)
S1	15	10	10	3	100
S2	20	10	10	3	100
S3	25	10	10	3	100

Preparation of biosac with extracted strach:



Figure: Heating of mixture



Figure: Starch Paste

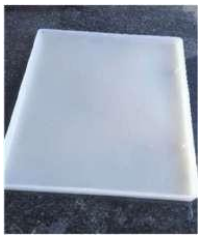






Figure: (a) Paste spread Mold (b) Paste dried into film (c) Starch film

3. *Characterization of Starch film:*

Elasticity: Prepare a thin biosac strip and secure its ends to a stretching apparatus. By slowly pulling on the material, we can observe the point where it begins to noticeably stretch and the point of breakage.





Figure: (a) Universal Testing Machine (UTM) (b) Starch film for testing





Figure: (a) Test for water resistance (b) Starch film weight





Figure: water solubility Figure; Piece of film placed in the soil



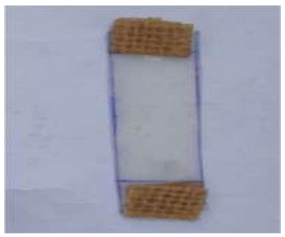


Figure: (a) Micrometer (b) Sample used

Water resistance: A small beaker was taken and the top was covered with small piece of prepared film and kept in place with a thread. A small groove was made on the small piece and water was added to it. The apparatus was left for 72 hr and later





observed weather the film breaks down or retains its structure.

Water solubility: The film sample was cut into square sections of 2.0 cm, and the dry film mass was weighed accurately and recorded. The samples remained immersed in 100 mL distilled water and fixed agitation at 180 rpm were carried out for 6 h at 25 ◦C. The lasting portions of the film were filtered after 6 h. They were then dried in a hot air oven at 110 ◦C until an ultimate fixed weight was found.

Biodegradability test: A potted plant was taken and the soil near the roots were dug. A small piece of biosac was cut for faster degradation. The piece was placed into the soil and left covered. After 10 days, the residual piece was removed and observed for breakdown and fragmentation.

Thickness measurement: We use a micrometer, a small instrument with a screw gauge that provides precise measurements. Ensure the bioplastic sample is placed on a flat, stable surface. Gently lower the micrometer's anvil onto the bioplastic sample. Slowly turn the screw gauge until the spindle touches the bioplastic without applying excessive pressure, which could deform the

material. The thickness of the bioplastic will be displayed on the micrometer's scale

4. Test for natural ripening

After the characterization of film, it will be tested for their fruit ripening property. Check for the time taken by the film to ripen the fruit and compare it with normal time taken by the Fruit to ripen naturally within a normal plastic. The first fruit that we tested for ripening is Banana. Two unripe bananas were taken; one was covered with the starch Biosac and the other was covered with normal plastic. The bananas were left untouched for 24hrs. The same procedure was done for other fruits like custard apple and mango. The results were observed.

Figure: Test on Banana Figure: Test on Custard



Figure: Test on Mango

Conclusion:

1. Rice starch extraction:

Fruits	Fruits covered with starch film			Fruits covered with normal plastic		
	Colour at initial stage	Colour at final stage	Duration(in hrs)	Colour at initial stage	Colour at final stage	Duration (in hrs)
Banana	Green	Yellow	14hrs	Green	Greenish-Yellow	14hrs
Custard Apple	Green	Blackish-Yellow	36hrs	Green	Greenish-Yellow	36hrs
Mango	Green	Yellowish-Green	82hrs	Green	Greenish-Yellow	82hrs

Efficient rice starch extraction yielded high-quality material, perfect for biodegradable bag production, exemplifying sustainable resource utilization and agricultural innovation.

2. Starch film formation:

Biosacs, crafted from extracted rice starch and eco-friendly additives, boast durability, tamper-proof design, and versatility in accommodating diverse fruits, showcasing sustainable packaging solutions.

3. Characteristics for the film sustainability:

- Water resistance test: Results have shown that rice starch films exhibit good water resistance, making them suitable for applications requiring moisture barrier properties, such as food packaging and agricultural films.
- Water Solubility test: The starch film dissolved into small pieces after 4 hours in water, yielding a final weight of 0.093g and a water solubility percentage of 25.2%, indicating good water solubility.
- Elasticity/ tensile strength test: The bioplastic exhibited a tensile strength of 0.73 MPa, with a Young's modulus of 3.636 MPa, indicating moderate stiffness and a ductility of 20.075%, suggesting significant elongation before fracturing.
- Thickness measurement results: The average thickness of the bioplastics measures 0.25 mm (250 microns), well above the Government of India's regulation of 50 microns for plastic bags, affirming suitability for carry bag preparation.
- Biodegradability test results: The bioplastic, made with rice starch, displayed significant degradation within 20 days, breaking down into smaller pieces due to microbial activity, affirming its eco-friendly nature and potential for sustainable waste management.

4. Test for natural ripening process:

Bananas covered with starch film ripened faster than those in normal plastic bags after 14 hours, highlighting the starch film's efficiency in accelerating ripening. This outcome underscores the potential of starch film as a sustainable alternative for fruit packaging.

The similar procedure was done for Custard Apple and Mango. For Custard Apple that was

covered with the starch film, we observed that after 36 hrs it turned blackish-yellow compared to the custard covered with normal plastic bag. For mango we observed that after 82hrs it turned yellow when compared to mango covered with normal plastic.

Comparison table for fruits:

A comparative analysis of the ripening process of various fruits, including banana, custard apple, and mango was conducted over durations of 14 hours, 36 hours, and 82 hours, employing both bioplastic and conventional plastic packaging. Results revealed distinct patterns in ripening progression across fruit types and packaging materials. Bioplastic packaging demonstrated a more ripening curve compared to conventional plastic, suggesting a potential role in increasing ripening rate. With banana exhibiting the fastest ripening process, followed by custard apple and mango. These findings underscore the influence of both packaging material and fruit type on the ripening kinetics, offering valuable insights for optimizing storage and transportation practices in the fruit industry towards enhancing shelf life and ripening rate.

Scope for future work:

Market Adoption: As consumer awareness of environmental issues continues to grow, there is a significant market potential for biodegradable packaging solutions. The project can explore partnerships with fruit producers, distributors, and retailers to introduce the rice starch-based sacs into the market.

Environmental Impact Assessment: Conducting a comprehensive life cycle assessment (LCA) to evaluate the environmental impact of the rice starch-based sacs compared to conventional packaging materials would provide valuable insights and potentially influence policy decisions.

Global Reach: Expanding the project's reach to other regions and countries where agricultural practices vary could help address specific challenges and opportunities in different contexts.

Educational Initiatives: Developing educational materials and outreach programs to raise awareness about the benefits of biodegradable packaging and sustainable agriculture could foster widespread adoption and support for the project.

Collaborative Partnerships: Collaborating with industry stakeholders, research institutions, and environmental organizations can facilitate knowledge sharing, resource pooling, and collective action towards a more sustainable future.

4. GREEN SYNTHESIS OF NANO COPPER BASED LUBRICANTS FROM ELECTRONIC WASTE

Project Reference No.: 47S_BE_0797

College : *RV College of Engineering, Bengaluru*
Branch : *Chemical Engineering*
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Students : *Mr. Mihir Patil, Mr. Mohammed Afzan and Mr. V Akshay Hariharan*

Keywords: E-waste, Copper Nano powder, Sustainable development, Circular Economy, Copper Nano lubricant

Introduction:

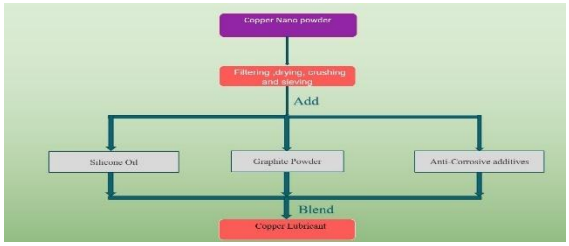
The project deals with the upcycling of E waste which involves the synthesis of high value products from scrap metal present in E waste. As there is several million tons of E-waste that is being generated every year around the globe, there is a need to devise methods for effective management of the waste stream. On one hand where E waste is one of the fastest solid waste streams that is being generated every year, it is also an attractive business opportunity due to the presence of various metals many of which hold considerable value. Major work has been done on high value metals including gold, silver, platinum etc. but copper which is present in appreciable quantities has been sidelined because the recovery and recycle value does not prove to be very profitable. In view of this, copper is selected as the metal of interest with which the project work is being carried out. The project

focusses on converting low value copper present in E waste to a high value specialty chemical which is the copper Nano lubricant. Current processes make use of energy intensive techniques to make the metal powder and subsequently synthesize lubricants which contributes to significant rise in the carbon footprint. This project aims to synthesize Nano lubricants through a cost-effective, energy efficient method which also promises to be a method of synthesis in favor of the environment.

Objectives:

The following are the objectives for the Project:

- Chemical synthesis of Copper Nano powder from copper recovered from E-waste.
- Characterization of obtained copper Nano powder.
- Synthesis of homogenized lubricant using obtained copper Nano powder



- Testing of lubricant in industry.

Methodology:

The methodology for synthesis of copper-based lubricant using copper recovered from e-waste involved two stages. The first stage includes the synthesis of Nano powder and the second stage consists of the synthesis of the Nano lubricant.

Copper in the form of armatures, wires and thin sheets was recovered from sources like CRT monitors, fan coils etc. and cut into smaller strands. 10 grams of copper recovered from is washed with water and dried in hot air oven. The washed copper stands were taken into a beaker filled with 50 ml of glacial acetic acid. The beaker is then placed on a hot plate and heated to a temperature of 80°C for 15 minutes followed by the addition of hydrogen peroxide. The peroxide is added slowly with in batches of 10 ml each up to a volume of 50 ml. It can be observed that the solution turns deep blue indicating the formation of copper acetate. The solution is let to react for a few minutes and then the leftover copper is removed. The deep blue solution in the beaker is then boiled till a volume of 20 ml is leftover in the beaker. It is then spread on a petri dish and let too dry in a hot air oven at 100°C for about 40 minutes. Post drying the salt is recovered.

About 5 grams of salt is taken in a 100 ml beaker and around 3-4 ml of silicone oil is added. This mix is slowly blended with a hand blender. 1g of fumed silica which is a thickener is added and blended in such a manner that the mixture does not flow freely. Finally, 1 gram of graphite powder is added along with 2g of Disodium sebacate which is an anti-corrosive additive. The whole mixture is then blended until a homogenous mix of the lubricant is obtained.

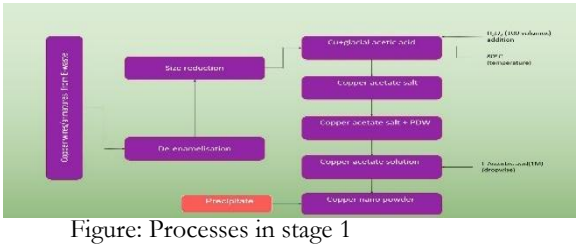


Figure: Processes in stage 1

Figure: Processes involved in stage 2

Conclusions

From the EDAX report of the copper Nano powder it was clear that majority presence was attributed to the presence of copper. However, there was also the presence of Carbon and oxygen which can be hypothesized to be coming from the presence of residual acetic acid which is formed during the process but not washed properly. The following shortcoming can be resolved by washing with water and then with ethanol which would yield desirable results.

From the SEM report it is clear that the particles have a nearly spherical morphology and provide a ball bearing effect when infused as a major component in the lubricant. The shape obtained from the images confirms its utility in the synthesis of the Nano lubricant.

From the Particle size distribution, it is found that the average particle size is around 85 nm which is within the nanoparticle range and can be confidently claimed as a Nano powder.

The XRD results and the results relating to the Nano lubricant are awaited and will be communicated in the later phase of the evaluation.

Scope for future work:

Although the process is considered green with the utilization of green solvents it can still be made even more environmentally friendly. The major change in the future work is primarily related to the utilization of recycled cooking oil rather than the use of silicone oil which is a mineral oil. Although the mineral oil has high boiling point, it is energy intensive to manufacture and generates considerable amount of carbon footprint which is undesirable from the environmental point of view. Another proposed change that will be incorporated is the production of graphite from the coconut fibers through the process of pyrolysis. This is again an attempt to utilize a product which is based on our principle of making value out of waste. We also plan to scale up this process and commercialize the same because the cost of production of the product would be significantly lower than any other lubricant already presents in the market due to the materials and methodology used in making it.

5. EFFECT OF STEEL SLAG AND RECLAIMED ASPHALT PAVEMENT (RAP) ON MOISTURE SUSCEPTIBILITY AND FATIGUE CHARACTERISTICS OF STONE MASTIC ASPHALT (SMA) MIX

Project Reference No.: 47S_BE_3141

College : *Bangalore Institute of Technology, Bengaluru*
Branch : *Civil Engineering*
Guide(s) : *Prof. S Poornachandra Thejaswi*
Students : *Mr. Vidhath S V, Ms. Tejaswini T, Mr. Nithsih K M and Ms. Yogeshwari D M*

Keywords: Stone Mastic Asphalt mix, Reclaimed Asphalt Pavement (RAP), Steel Slag, Marshal Stability, Optimum Binder Content (OBC), Water Sensitivity, Indirect tensile strength, Tensile Strength Ratio (TSR), Fatigue characteristics

Introduction:

The construction and maintenance of roads play a vital role in the economic development of nations, leading to significant investments, particularly in developing countries like India. While traditional asphalt pavements have been favored for their initial cost, recent studies show concrete pavements offer better life cycle cost benefits due to their durability and lower maintenance needs.

However, challenges such as scarcity of natural aggregates and environmental concerns have led to the exploration of alternative materials like reclaimed asphalt pavement (RAP) and steel slag aggregates. RAP has gained acceptance for its environmental and economic advantages, while steel slag aggregates show promise for improving pavement stability and skid resistance, despite some challenges related to workability and chemical composition. Efforts towards sustainable development emphasize the recycling of waste materials, with various marginal materials being successfully incorporated into asphalt mixes, able it with considerations for performance and cost.

Recent studies depicted that the life cycle cost of concrete pavements is lesser than asphalt pavements. This is due to the higher service life, lower/negligible maintenance cost and higher durability of concrete pavements. Moreover, rigorous attempts have been made continuously to lower the initial construction cost by means of including several industrial as well as agricultural wastes such as fly ash, sugarcane bagasse ash, and rice husk ash in the mix design. In addition, steel slag aggregates have shown excellent results in polish resistance tests, which means that surface courses made with them keep their friction over time. This result also confirmed in field studies reporting that sections made with steel slag have equal or better skid resistance and macro texture than sections made with conventional asphalt mix. However, steel slag aggregates have irregular shape and porous texture, which slightly degrade the workability of asphalt mix and absorb high amount

of binder in their porosities and hence, the consumption of binder increases.

Objectives:

Our attempt to use 10% RAP and 10% Steel slag in 1st combination and 20% RAP and 5% Steel slag in 2nd combination of Stone Mastic Asphalt mix has the following objectives:

- To determine the physical properties of virgin aggregate, RAP, Steel slag and Bitumen.
- To determine the Optimum Binder Content (OBC) of Stone Mastic Asphalt mix blended with RAP and Steel slag.
- To determine the moisture susceptibility of Stone Mastic Asphalt mix blended with RAP and Steel slag.
- To determine the fatigue characteristics of Stone Mastic Asphalt mix blended with RAP and Steel slag.

Methodology:

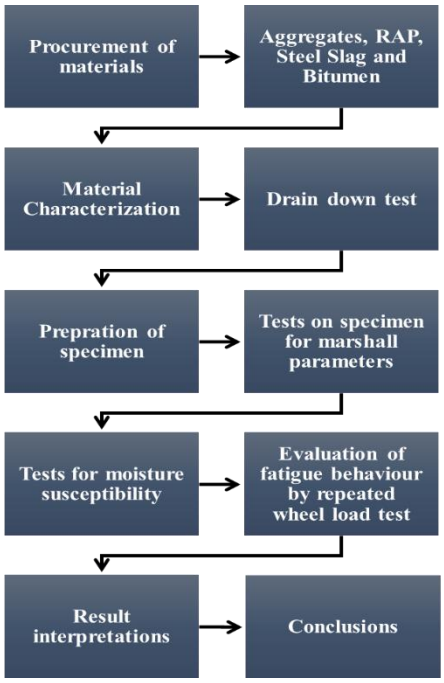


Figure 1: Flow chart showing the methodology of project

Materials used

Aggregates: The size and weight of aggregates taken are as tabulated:

IS sieve size	Weight in kg
12.5 mm	50
10mm	50
4.75mm -1.18mm	50
0.6mm-0.075mm	25
Fine sand	10

- *Bitumen:* A 60/70 grade bitumen, which weighs about 8 kgs was collected from the BMR hot mix plant located at, Muddianapalya, near Ramohalli.

- *Reclaimed asphalt pavement (RAP):* This RAP can be used with stabilizer which gives the pavement better load dispersion and greater load resistance.

- *Steel slag aggregates:* Steel slag is a by-product of the steel making process, specifically the smelting and refining of iron ore to produce steel. Steel slag is composed mainly of calcium, iron, and silicon, along with traces of other Elements.

- *Bagasse fibers:* It is the waste product of sugarcane, which is used in SMA mix to provide adequate stability to bitumen and to prevent drainage of binder during transportation and placing.

Tests conducted

- Basic tests such as specific gravity test, aggregate crushing test, aggregate impact test, water absorption test, shape tests were conducted to determine the physical properties of virgin aggregates, Steel slag and RAP. Along with the above- mentioned tests, Centrifuge bitumen extraction test for RAP was conducted. Similarly, to assess the bitumen characteristics, specific gravity, softening point, ductility, penetration tests were carried out.

- Drain down test was conducted to check the drain down % of bitumen to the SMA mix
- Marshal stability test was conducted to evaluate the marshal parameters such as density, stability, percentage of air voids, flow, optimum binder content for the conventional SMA mix without RAP and Steel slag and the mix blended with 10% RAP and 10% Steel slag and the SMA mix blended with 20% RAP and 5% Steel slag
- Water Sensitivity test to determine the moisture susceptibility was carried out. Also, Tensile Strength Ratio (TSR) was found out using the same.
- Fatigue characteristics of the mixes were found out using repeated wheel load test

Results:

The test results from Marshal stability tests are as tabulated below:

Mix type	OBC (%)	Gm (g/cc)	Gt (g/cc)	Vv (%)	VFB (%)	Flow (mm)	Stability (kN)
Conventional	6.45	2.21	2.30	4.8	79.41	4.21	9.1
Blended with 10% RAP and 10% Steel slag	6.2	2.26	2.28	4.65	93.84	4.76	11.65
Blended with 20%RAP and 5% Steel slag	6.02	2.21	2.27	5.8	82.97	4.15	13.55

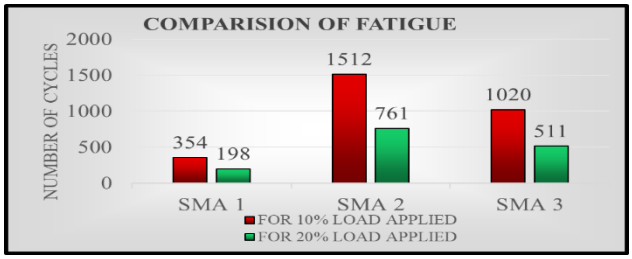
Figure: Comparison of the Marshal stability test results

The results obtained from Water sensitivity test are tabulated:

Mix type	TSR	TSR
Conventional Mix	0.92	92
Mix blended with 10% RAP	0.87	87
Mix blended with 20% RAP	0.98	98

Figure: Comparison of TSR

Fatigue test results: The number of cycles taken by the Stone mastic asphalt mix blended with RAP and Steel slag is 1512 and 1020 for SMA 1 & SMA 2 respectively when 10% of the maximum tensile load is applied and 761 and 511 for SMA 1 & SMA 2 respectively when 20% of the maximum tensile load is applied and that taken by conventional SMA 1 mix without RAP and Steel slag is 354 when 10% of the maximum tensile load is applied and 198 when 20% of the maximum load is applied. The

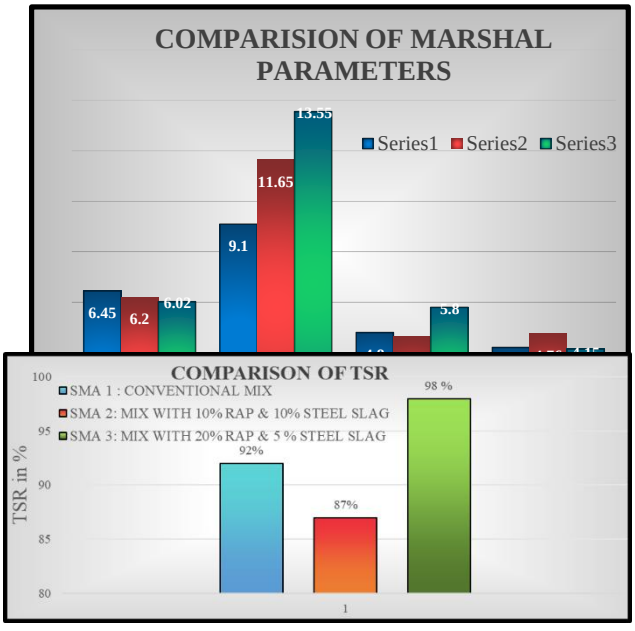


greater difference is attributed to the fact that the mix blended with steel slag and RAP can resist repeated varying wheel load.

Figure: Chart showing no. of cycles taken by the test specimens to attain fatigue failure

Conclusion:

- The incorporation of steel slag and RAP in Bituminous Concrete mix showed significant impacts on Marshal parameters and fatigue behaviour.
- The incorporation of steel slag and RAP in SMA mix resulted in a decrease in the Optimum Bitumen Content (OBC) from 6.45% to 6.2% in SMA 2 MIX and 6.45% to 6.02% in SMA 3



MIX. This reduction signifies improved binder-aggregate interactions, enhanced mixture performance, and the potential for better stability, durability, and resistance to rutting and fatigue cracking, while also offering economic and environmental benefits through reduced bitumen usage. These findings highlight the effectiveness and sustainability of steel slag and RAP as additives in SMA mixes.

- The incorporation of steel slag in the SMA mix improved the stability by 24.73% in SMA 2 MIX and 48.9% in SMA 3 MIX, enhancing its resistance to deformation under traffic loads. Additionally, the utilization of RAP contributed to improved strength and stiffness of the mixture. These enhancements in Marshal parameters have the potential to enhance the overall performance and longevity of the pavement structure.

- In the water sensitivity test, the SMA 1 mix got 92 % TSR value whereas SMA 2 and SMA 3 got 87% and 98% respectively. This improvement exceeds the minimum specified value of 80% and suggests enhanced moisture resistance, indicating the potential for better performance in terms of resisting damage caused by water infiltration.

- The use of steel slag and reclaimed asphalt pavement (RAP) in SMA mix positively influenced its fatigue behavior, as evidenced by a higher number of cycles compared to the conventional mix without RAP and steel slag.

    1. It was found that increase in 1158 number of cycles in SMA 2 MIX and 666 number of cycles in SMA 3 MIX than the SMA 1 MIX when 10% load is applied.

    2. It was found that increase in 563 number of cycles in SMA 2 MIX and 313 number of cycles in SMA 3 MIX than the SMA 1 mix when 20% load is applied. This improvement can be attributed to the enhanced resistance against fatigue cracking, resulting from the improved stiffness and strength characteristics of the mix achieved through the inclusion of steel slag and RAP.

Scope for future work:

- To determine the optimal percentages of RAP and steel slag for different road conditions and mix designs.
- Future studies should focus on evaluating the long-term performance of bituminous pavements using RAP and steel slag, including monitoring factors such as rutting, cracking, and durability.
- Development of standardized guidelines and specifications for incorporating RAP and steel slag in bituminous pavements would facilitate wider adoption and ensure consistent quality across road construction projects.
- It includes conducting comprehensive environmental impact assessments to quantify the sustainability benefits of using RAP and steel slag, including reductions in carbon emissions, energy consumption, and natural resource depletion, promoting their wider implementation in road infrastructure projects.

6. SUSTAINABLE PAVER BLOCKS: INCORPORATING DEMOLISHED CONCRETE WASTE AND PLASTIC WASTE FOR ENHANCED PROPERTIES AND ENVIRONMENTAL BENEFITS

Project Reference No.: 47S_BE_4324

College : Jain College of Engineering, Belagavi
Branch : Civil Engineering
Guide(s) : Prof. Varsha Gokak
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Keywords: Pavers, waste plastic & demolished concrete waste

Introduction:

The wastes plastic in household is large and increases with time. In each country the waste composition is different, since it is affected by

socioeconomic characteristics, consumption patterns and waste management programs, but generally the level of plastics in waste composition is high. The largest component of the plastic waste is polyethylene, followed by polypropylene, polyethylene Terephthalate and polystyrene. The large volume of materials required for construction is potentially a major area for the reuse of waste materials. Recycling in concrete has advantages since it is widely used and has a long service life, which means that the waste is being removed from the waste stream for a long period.

CREASED concern for environmental protection and for promotion of the principles of sustainable development has led some governments to introduce legislation to encourage the use of recycled aggregates. A favoured method is to lower the selling price of recycled aggregates in relation to natural aggregate, and this is largely achieved by increasing landfill costs. Demolition sites and restoration schemes are sources of large amounts of solid waste, which today is being used as mere landfill. On the other hand, building practices are such that reusable materials also become mixed with rubble, stone and soil, reducing their value and making recycling difficult or uneconomical. This waste material too, is rendered suitable only as infill for construction work, or as landfill.

Objectives:

- To assess the mechanical properties of paver blocks with varying percentages of demolished crushed concrete waste & plastic waste.
- To evaluate the environmental impact of using demolished crushed concrete waste and plastic waste in paver blocks compared to traditional manufacturing methods.
- To investigate the long-term performance of demolished crushed concrete waste and plastic-infused paver blocks.
- To find the optimum mix design for enhanced properties.

Methodology:

Material Selection:

1. Demolished crushed concrete waste: Using the tested concrete cube waste from Material testing laboratory and crushing them into small & finer particles.
2. Choose appropriate types and percentages of plastic waste (e.g., PET, HDPE) for incorporation into the paver block mix.
    - Waste Plastic (HDPE)
    - Sand

Manufacturing: Produce paver blocks using the developed mixtures and compare them with traditional blocks. *Tests on Paver Blocks*

- Mechanical Testing
- Environmental Impact Assessment
- Durability Studies

Conclusion:

Based on the experimental study

- Reuse of demolished crushed concrete waste and hence sustainable paver block
- Reuse of waste plastic in production of paver block is productive way of disposal of plastic waste.
- Cost of present paver block can prove to be lesser than concrete paver block.
- The compressive strength may be low of equal to the traditional paver blocks and hence it can be used in garden, pedestrian path, cycle way.
- The compressive strength of the paver block is found to range between 30 N/mm^2 - 40 N/mm^2 for different proportions. (Some tests are pending)

Innovation in the project:

Incorporating demolished concrete waste and plastic waste into pavers presents an innovative approach with several benefits:

1. *Waste Reduction and Recycling:* Utilizing demolished concrete waste and plastic waste in paver production reduces the amount of waste sent to landfills, contributing to waste reduction and recycling efforts. This approach promotes a

circular economy by repurposing materials that would otherwise be discarded.

2. *Improved Durability and Strength:* Demolished concrete waste, when crushed and used as aggregate in pavers, can enhance their durability and strength. The recycled concrete aggregate (RCA) can act as a sustainable alternative to traditional aggregates, providing similar or even improved mechanical properties in pavers.

3. *Enhanced Flexibility and Crack Resistance:* Incorporating plastic waste, such as shredded plastic bags or bottles, into the paver mix can improve its flexibility and crack resistance. The plastic particles act as a reinforcement, dispersing stress and reducing the likelihood of cracking, especially in areas with heavy traffic or temperature variations.

4. *Reduced Carbon Footprint:* By using recycled materials like demolished concrete waste and plastic waste in paver production, the carbon footprint associated with manufacturing new materials is significantly reduced. This contributes to environmental sustainability by conserving natural resources and minimizing greenhouse gas emissions associated with traditional manufacturing processes.

5. *Customizable Aesthetics:* Pavers made from a blend of demolished concrete waste and plastic waste can offer unique aesthetic options. Depending on the composition and color of the recycled materials, pavers can have a distinctive appearance that adds visual interest to outdoor spaces. This customization potential allows for creative design possibilities while promoting sustainability.

6. *Water Permeability: Certain* types of pavers can be designed to allow water to permeate through them, reducing stormwater runoff and minimizing the risk of flooding. By incorporating porous materials like crushed concrete and plastic waste into these permeable pavers, the environmental benefits are further amplified, as they contribute to better water management and groundwater recharge.

Scope for future work:

Incorporating demolished concrete waste and plastic waste into pavers not only enhances their properties but also contributes to environmental conservation and sustainable development goals. This innovative approach demonstrates the potential for waste-to-resource solutions in the construction industry, paving the way for more sustainable practices in infrastructure development. The incorporation of demolished concrete waste and plastic waste into pavers holds promise for advancing sustainable construction practices, promoting circular economy principles, and addressing environmental challenges in the built environment. Continued research, innovation, and collaboration across the construction industry are essential for realizing the full potential of recycled-content pavers and maximizing their environmental and economic benefits.

7. RESILIENT MODULUS OF GEOSYNTHETIC REINFORCED RECYCLED AGGREGATES

Project Reference No.: 47S_BE_4298

College : *Ramaiah Institute of Technology, Bengaluru*
Branch : *Civil Engineering*
Guide(s) : *Dr. Asha M Nair*
Students : *Mr. Chandra Shekar V, Mr. Kiran H S, Mr. Basavaraj Biradar and Mr. Rahul*

Keywords: Resilient Modulus, Recycled aggregates, Conventional aggregates, Geogrid, Geo textile

Introduction:

Highways is the integral part of infrastructure development, playing a crucial role in facilitating socio-economic progress by enhancing connectivity and accessibility. However, traditional highway construction methods heavily depend on natural resources, raising significant concerns about resource depletion and environmental sustainability. This has prompted researchers to explore alternative materials and methodologies to enhance sustainability in infrastructure projects.

Among these alternatives, recycled aggregates have garnered considerable attention as a viable solution for highway construction. These materials not only alleviate the depletion of natural resources but also address critical waste management issues. Numerous studies by esteemed researchers, including Cardoso et al. (2016), Thacker et al. (2019), Mantlana and Maoela (2020), and Ullah et al. (2022), have highlighted the potential of recycled aggregates to significantly enhance the sustainability of highway projects.

To further address the challenges of durability and load-bearing capacity, the integration of geosynthetic materials such as geotextiles, geogrids, and geocells has been proposed. These materials serve as stabilizing agents, improving the mechanical properties of pavement layers and enhancing their performance under various loading conditions. By incorporating geosynthetics into the pavement structure, infrastructure can endure higher loads with reduced deformation, thus increasing its durability and extending its service life.

The current study focuses on the resilient modulus of geosynthetic-reinforced recycled aggregates, particularly their application in highway construction. The primary objective is to examine how the inclusion of geosynthetics in pavement layers enhances the resilient modulus of recycled aggregates, thereby improving the overall performance of highway pavements. This research aims to provide valuable insights into the design and implementation of sustainable and resilient highway infrastructure by exploring the synergistic effects of geosynthetics and recycled aggregates.

In conclusion, the integration of geosynthetic reinforcement within subgrade layers offers a promising approach to enhance the resilient modulus of pavement materials, ensuring the long-term performance and sustainability of highway infrastructure. This innovative approach not only supports environmental sustainability but also contributes to the development of robust and enduring infrastructure systems.

Objectives:

- Determination of Resilient Modulus for Conventional and Recycled Aggregates: Assess and compare the resilient modulus values of conventional aggregates and recycled aggregates to understand their performance characteristics in highway construction.
- Investigation of Suitability of Geo-synthetic Reinforcement: Explore the effectiveness of geosynthetic materials in enhancing the resilient modulus of both conventional and recycled aggregates, aiming to improve the overall stability and durability of pavement structures.
- Determination of the Damage Ratio Using KENPAVE: Utilize the KENPAVE software to calculate and compare the damage ratios for pavements constructed with conventional and recycled aggregates, both with and without geosynthetic reinforcement, to evaluate their long-term performance and sustainability.

Methodology:

Materials

Aggregates:

- *Conventional Aggregates:* Natural aggregates typically used in highway construction.
- *Recycled Aggregates:* Aggregates sourced from construction and demolition waste.

Geo synthetic Materials: Geo textiles and Geo grids: Selected for their reinforcement capabilities in pavement structures.

Methods

Material Preparation:

- *Sieve Analysis:* Materials were sieved using different sieves to achieve the desired gradation as per the Ministry of Surface Transport standards. This ensured the materials conformed to specified graduation requirements.
- *Proportioning:* The aggregates were proportioned so that the maximum aggregate size was 1/5 of

the specimen diameter (20 mm for 100 mm diameter specimens).

Specimen Preparation:

- *Triaxial Specimens:* Prepared with a diameter of 100 mm and a height of 200 mm for resilient modulus testing.
- *Geosynthetic Reinforced Specimens:* Reinforced specimens were prepared with single, double, and triple layers of geosynthetics embedded within the triaxial specimens as shown below fig.

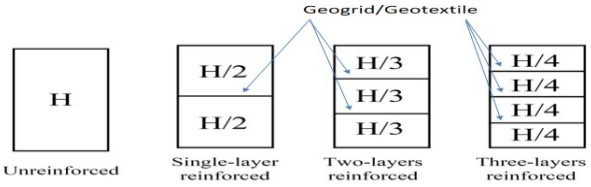


Figure: Arrangement of Geo-grid/Geo textile within in Triaxial Specimen

Resilient Modulus Testing:

- *Testing Protocol:* The prepared specimens were subjected to repeated loading as per the guidelines outlined in AASHTO T 307-99. The loading involved applying axial stress, cyclic stress, and residual stress according to the specified codal guidelines.
- *Data Collection:* Resilient modulus values were measured for both reinforced and unreinforced specimens.

Data Analysis:

- *Comparison of Results:* The resilient modulus values of reinforced specimens were compared to those of unreinforced specimens to evaluate the effectiveness of geosynthetic reinforcement.
- *KENPAVE Analysis:* The obtained resilient modulus values were input into the KENPAVE software to determine the effect on pavement performance, specifically focusing on rutting and fatigue life.
- *Damage Ratio Calculation:* KENPAVE was used to simulate the damage ratios for both conventional and recycled aggregate pavements with and without geosynthetic reinforcement.

Details of Work Carried Out:

Specimen Preparation:

- Aggregates were processed and proportioned to conform to the specified gradation.
- Specimens were meticulously prepared in the laboratory, ensuring consistent dimensions and layer placements for geosynthetic reinforcement.

Reinforcement Layering:

- Single, double, and triple layers of geotextiles and geogrids were strategically embedded within the triaxial specimens during preparation.
- Precise placement of reinforcement layers at designated heights was maintained to ensure uniformity across specimens.

Testing and Analysis:

- Resilient modulus tests were conducted on both reinforced and unreinforced specimens under controlled conditions at IISc soil mechanics laboratory.
- The results were systematically recorded and analyzed.
- The KENPAVE software was used to model the pavement performance, and the outcomes were interpreted to assess the improvements in rutting resistance and fatigue life due to geosynthetic reinforcement.



Figure: Tri-axial Lab Setup at IISc, Bengaluru

Conclusion:

The study investigated the use of recycled aggregates (RA) reinforced with geosynthetic materials in comparison to conventional aggregates (CA) for flexible pavement construction. Key findings include:

Resilient Modulus (MR):

- *Recycled Aggregates (RA):* The MR of RA specimens significantly improved when reinforced with geosynthetics. The highest MR values were observed with double-layer geogrid reinforcement (GR2), indicating superior stiffness and load-bearing capacity.
- *Conventional Aggregates (CA):* CA specimens generally exhibited higher MR values than RA across all reinforcement configurations, demonstrating their inherent superior stiffness and durability.

Strain Analysis:

- Both RA and CA showed reductions in tensile and compressive strains with reinforcement. The RA specimens with GR2 reinforcement exhibited the lowest tensile strain, indicating improved deformation resistance.
- The overall strain characteristics of CA were better than those of RA, but the performance gap narrowed with effective reinforcement in RA.

Damage Ratios: CA showed better resistance to fatigue and rutting compared to RA. However, RA with appropriate reinforcement showed substantial improvement, making it a viable alternative.

Environmental and Economic Benefits:

- The use of RA contributes to sustainability by reducing the need for natural aggregates and managing waste effectively.
- Reinforced RA can provide cost savings in the long term by extending pavement life and reducing maintenance needs.

The study concludes that:

1. *Geo-synthetic Reinforcement:* Incorporating geosynthetics, especially geogrids, significantly enhances the mechanical properties of both RA and CA For ratio of 1.5 to 3.0.
2. *Viability of Recycled Aggregates:* While CA outperforms RA in raw form, reinforced RA demonstrates substantial improvements, closing the performance gap. This suggests that RA can be a sustainable and cost-effective alternative in pavement construction when adequately reinforced.
3. *Damage ratio:* with inclusive of geogrid considerable reduction in Damage Ratio about 98%.
4. *Sustainability and Practical Implications:* The findings advocate for the increased use of RA in infrastructure projects to promote environmental sustainability without compromising performance. Proper reinforcement can make RA a competitive option for flexible pavements, contributing to resilient and sustainable road infrastructure.

Scope for future work:

Future research should delve deeper into the long-term performance of geosynthetic - reinforced recycled aggregates under real-world conditions. This involves monitoring the structural integrity and load-bearing capacity of reinforced pavements over extended periods and varying climatic conditions. Additionally, exploring the economic and environmental impacts of large-scale implementation of reinforced recycled aggregates in highway construction could provide valuable insights into cost-efficiency and sustainability benefits.

Investigating the potential of other types of geosynthetic materials, such as geocells and Geo-membranes, could further enhance the performance of recycled aggregates. Comparative studies between different reinforcement configurations, including multi-layered systems, would help in identifying the most effective designs.

Advancements in material science, such as the development of new types of recycled aggregates or the incorporation of additives to improve their mechanical properties, should also be considered. Research could focus on optimizing

the mix design of recycled aggregates to maximize their resilient modulus and overall durability. Furthermore, integrating advanced computational modeling techniques, like finite element analysis, could improve the prediction of pavement behavior and performance. This approach would enable a more precise assessment of the benefits of geosynthetic reinforcement and support the development of more efficient and reliable pavement designs.

Collaboration with industry stakeholders and government agencies is crucial for the practical implementation of research findings. Pilot projects and field trials could demonstrate the feasibility and benefits of using reinforced recycled aggregates in real-world settings, paving the way for widespread adoption.

Lastly, exploring the social and environmental impacts of using recycled materials in construction could provide a holistic understanding of their benefits, contributing to the broader goals of sustainable development and resource conservation. This comprehensive approach will ensure that future infrastructure projects are not only durable and cost-effective but also environmentally responsible and socially beneficial.

8. EXPERIMENTAL STUDY ON EXPRESSWAY KINETIC ENERGY RECOVERY SYSTEM

Project Reference No.: 47S_BE_4348

College : *Vidya Vikas Institute of Engineering and Technology, Mysuru*
Branch : *Civil Engineering*
Guide(s) : *Prof. Anusha G S*
Students : *Ms. Lakshmi C D, Ms. Meenal S, Mr. Prapul Raj B P and Ms. Sneha J Nayak*

Keywords: Enlil Turbine, Expressway experimentation, Generation of electricity, Vehicular wind velocity, Vertical axis wind turbine (VAWT), Solar panels

Introduction:

In today's pursuit of energy-efficient transportation solutions, kinetic energy recovery systems stand out as promising technologies. This project focuses on the development and evaluation of a VAWT tailored for expressway use, leveraging principles akin to wind energy capture. Expressways, with their high-speed environments and frequent braking scenarios, offer an ideal setting to maximize the benefits of energy recovery systems. By capturing kinetic energy during braking, the Enlil Turbine aims to enhance vehicular velocity efficiency and mitigate greenhouse gas emissions. The experimental study involves designing, prototyping, and testing the operational prototype within a vehicle setup. Through both simulations and real-world trials on expressways, the system's performance will be thoroughly assessed under typical driving conditions. Key parameters such as energy recovery rates, fuel consumption, and emissions will be meticulously measured and analyzed. The outcomes of this study are expected to provide valuable insights into the viability and effectiveness of Hybrid Turbine in real-world expressway environments.

The experimental endeavor encompasses the comprehensive development, prototyping, and validation of the VAWT within an operational vehicle framework. Through a combination of sophisticated simulations and real-world trials conducted on expressways, the system's efficacy will be meticulously scrutinized across various driving scenarios. Vital performance metrics, encompassing energy recuperation rates, fuel consumption patterns, and emission profiles, will be methodically gauged and dissected. The findings from this rigorous investigation are poised to furnish invaluable insights into the practicality and efficacy of Enlil Turbine in real-world expressway contexts, fostering advancements in sustainable transportation paradigms and environmental stewardship initiatives.

Objectives:

- Ensure the implementation of energy harvesting systems at the expressway.

- To design a hybrid renewable energy system comprising of a VAWT, Enlil turbine & solar panels for electricity generation by utilizing the speed of vehicles for running the turbines day and night.
- Selection of materials that exhibit durability, resilience under traffic loads, weather conditions and other environmental factors to guarantee long term performance.
- Minimize the environmental impact of the project by employing eco-friendly method of energy production.

Methodology:

This methodology outlines the steps, materials, and methods for integrating an Enlil turbine into a kinetic energy recovery system for expressway applications. The goal is to evaluate the system's efficiency in capturing wind and kinetic energy to improve vehicle performance and reduce emissions.



1. *Selection of Optimal Ground:* By doing a reconnaissance survey of the Mysuru-Bengaluru expressway which has a distance of 119km, the selected stretch starts from Budanoor to Halasagere which has the total length of 4.6km. The geometric pattern of this stretch is free from undulations, curves, speed breakers, steep slope, SSD (stopping sight distance).

2. *Collection of required data:* The collection of the required data includes:

a. Road dimensions which have:

Road width = 10 m on both sides. (2.46m, 3.74m, 3.74m length for each lane from divider)
Divider width=3.9m
Service road width=7 m on both sides.



Figure: Mysuru- Bengaluru Expressway

b. The wind speed and the temperature data collected from the Somanahalli hydrometerological station, where the graph was plotted by the Stevenson screen instrument itself and the readings were documented on daily basis.

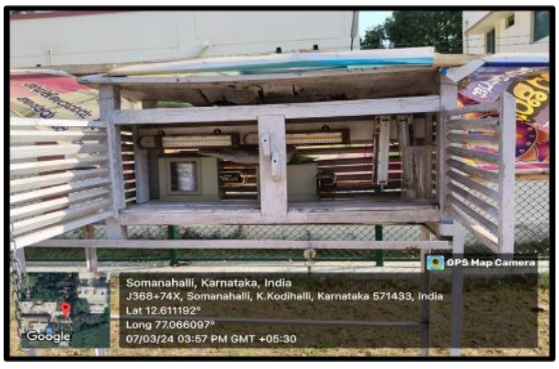


Figure: Stevenson screen

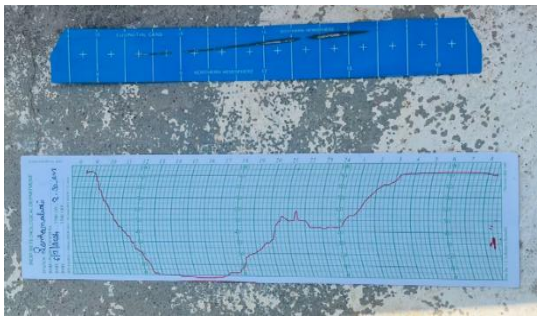


Figure: Graph

DATE	Time in I.S.T	TEMPERATURE				WIND INSTRUMENT		
		Maximum		Minimum		Anemometer Reading		
		0 C		0 C		Reading	After 3 mins	Wind vane Directions
01-01-2024	8:30 AM	32		17		98037.5	98037.5	E-S
	5:30 PM					98057	98057	E-S
02-01-2024	8:30 AM	32		20		98073.3	98073.4	E-S
	5:30 PM					98099.8	98099.8	E-S
03-01-2024	8:30 AM	32		20		98131.9	98131	E-N
	5:30 PM					98156.2	98156.2	E-S
04-01-2024	8:30 AM	30		22		98183.4	98183.5	E-N
	5:30 PM					98201.8	98201.8	N-S
05-01-2024	8:30 AM	27		20		98207.3	98207.4	E-N
	5:30 PM					98230.7	98230.8	E-N
06-01-2024	8:30 AM	33		21		98244.2	98244.3	E-S
	5:30 PM					98268.8	98268.9	E-N
07-01-2024	8:30 AM	34		22		98305.2	98305.3	E-S
	5:30 PM					98334.6	98334.6	E-S

Table 1: Temperature and wind data

The traffic volume data of the stretch collected from 14th March 2024 to 5th April 2024 for our experimental study includes the count of 4 wheelers, low commercial vehicles, high commercial vehicles and buses which was noted during peak hours (9:30- 10:30 am, 5:30- 6:30 pm) and non-peak hours (12:00-1:00pm, 3:00-4:00pm)

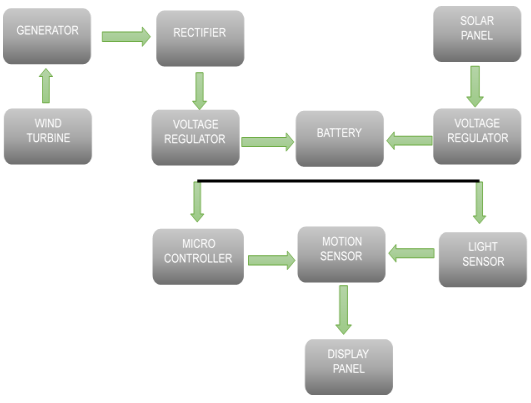
SL NO:	Date of Surveying	TIME SLOTS		VEHICLE COUNTS							
		AM	PM	4 W		LCV		HCV		BUS	
				M-B	B-M	M-B	B-M	M-B	B-M	M-B	B-M
1	14/03/24	9:30 to 10:30		502	580	218	252	118	97	43	45
			12 to 1	548	433	274	173	160	78	46	41
			3 to 4	656	533	285	231	122	139	56	66
			5:30 to 6:30	697	575	303	250	124	110	41	54
2	15/03/24	9:30 to 10:30		589	615	256	267	101	99	48	43
			12 to 1	578	628	251	273	130	116	44	54
			3 to 4	661	539	287	234	124	105	49	57
			5:30 to 6:30	817	741	355	322	118	93	53	49
3	16/03/24	9:30 to 10:30		607	1342	264	583	70	78	54	52
			12 to 1	605	785	263	341	120	83	59	47
			3 to 4	967	868	420	377	97	85	61	52
			5:30 to 6:30	1036	1131	490	491	105	80	49	59

Table 2: Traffic flow count

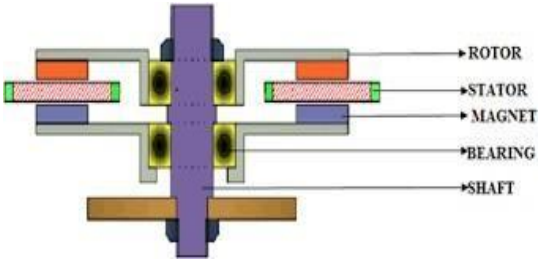
3. *Design & Analysis of Data:* The collected data is analyzed and the design for the operational prototype is as follows:

a. Description of Operational Prototype:

The wind turbine consists of a generator and a rectifier which is connected to a voltage regulator which in turn is connected to a battery. The solar panel is also connected to the battery which is connected to the display panel through the motion sensor. The motion sensor consists of a micro controller and a light sensor which is connected for the display of voltages generated by the wind and solar systems.



b. *Requirements:*



Permanent Magnet, Rotor, Stator Designing Part, Bearing, Solar panels, Battery, Micro controller, Display panel

4. *Preparation of Operational prototype:* The prototype as per our requirement is designed by collecting the required materials.

5. *Cost Economics:* The comparison study of the operational prototype with the real model to be implemented on the expressway is made.

This methodology ensures a systematic approach to integrating and evaluating the Enlil turbine with kinetic energy recovery system aiming to enhance vehicle efficiency and sustainability on expressways.

Results:

- Proper implementation of energy harvesting systems at the expressway.
- Successful installation of Enlil turbine with attached solar panels for electricity generation by utilizing the speed of vehicles for running the turbines day and night.
- Selecting the materials that exhibit durability, resilience under traffic loads, weather conditions and other environmental factors to guarantee long term performance.
- Visibility of volts generated from the device and proper storing & utilization system for generated electricity.
- Employing eco-friendly method of energy production.

Conclusion:

The study demonstrated that integrating an Enlil turbine with a kinetic energy recovery system in vehicles operating on expressways can significantly enhance energy efficiency, reduce fuel consumption, and lower emissions. These findings support the potential of such integrated systems to contribute to sustainable transportation solutions and environmental conservation efforts. Further research and development could optimize the system for broader applications and commercial viability.

Scope for future work:

- Addition of IOT software for better visual display.
- Rotating solar panel implementation for 24*7 energy utilization.

9. JARVIS VOICE ASSISTANT FOR ACADEMICS USING NLP

Project Reference No.: 47S_MCA_0074

College : *KLE Institute of Technology, Hubballi*
Branch : *MCA*
Guide(s) : *Mrs. Laxmi Pujari*
Students : *Mr. Adarsh K.Kammar, Mr. Arun Mopagar, Ms. Suman Hegde, Ms. Vishalu S. Kudleppanavar and Ms. Srushti Kashappa Doddawad*

Keywords: Voice assistant, Student Timer, Set alarm

Introduction:

JARVIS - a cutting-edge voice assistant tailored specifically for academics, leveraging the power of Natural Language Processing (NLP) to revolutionize the way scholars interact with information. It aims to be the go-to companion for researchers, students, and educators alike. Its genesis traces back to the recognition of the challenges faced by academics in navigating vast repositories of scholarly literature, managing citations, organizing research notes, and even facilitating instructional tasks. The integration of NLP algorithms enables JARVIS to parse natural language queries with remarkable accuracy, allowing users to interact with it conversationally, just like consulting a knowledgeable colleague. Whether it's seeking information on a particular research topic, generating summaries of academic papers, or even composing scholarly documents through dictation, JARVIS strives to simplify and enhance the academic workflow.

Objectives:

- It generates a code in any language with respect to user need.
- Can send emails, Plays Music, read pdf, text on WhatsApp.
- Sets a Reminders for students' daily life routine.
- It also creates an image as per the user input.
- It opens the different types of Apps using the user commands.
- It creates a 3D-Models.

Methodology:

Materials:

- CV2-Powerful open-source computer vision library for Python. It provides a wide range of functions and tools for tasks such as image and video analysis, object detection, facial recognition, and more, making it a fundamental tool for developers and researchers working in the field of computer vision.

- pywhatkit- Python library that simplifies various tasks, including sending WhatsApp messages, performing Google searches, converting text to handwriting, playing YouTube videos, and more.

- Web browser- Module in Python provides a simple interface to open web pages in a web browser. It allows for easy navigation to URLs, making it convenient for developers to automate web browsing tasks or integrate web-based functionalities into their Python applications effortlessly.

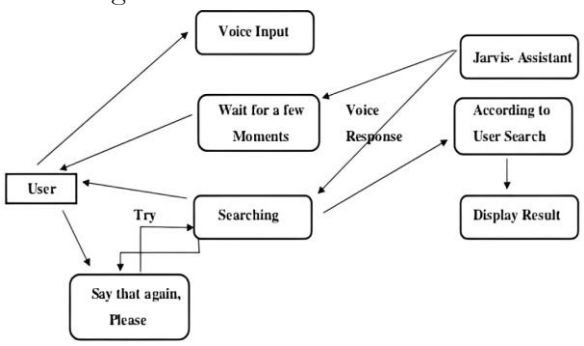
- Daytime- The `datetime` module in Python is essential for working with dates and times. It enables developers to manipulate dates, times, and time zones, facilitating tasks such as date arithmetic, formatting, parsing, and retrieving current date and time information. With its versatile functionality, the `datetime` module serves as a cornerstone for time-related operations in Python programming.

- from pygame import mixer- Importing the `mixer` module from `pygame` in Python provides access to audio mixing functionality for creating and playing sounds in games and multimedia applications. By utilizing `mixer`, developers can incorporate dynamic audio elements, such as music tracks, sound effects, and voiceovers, enhancing the immersive experience of their projects.

Methods

Natural Language Processing- Encompasses a diverse range of methods and techniques for analysing and understanding human language. These methods include tokenization, which breaks text into individual words or tokens for further analysis; part-of-speech tagging, which labels each word with its grammatical category; syntactic parsing, which determines the hierarchical structure of sentences; named entity recognition, which identifies and classifies named entities such as persons, organizations, and locations; sentiment analysis, which assesses the emotional tone of text; and machine translation, which converts text from one language to another. Additionally, methods like word embeddings, recurrent neural networks, and transformer models have significantly advanced NLP tasks such as language generation, text summarization, and question answering. These methods collectively empower NLP systems to extract meaning from unstructured text data, enabling applications ranging from virtual assistants and chatbots to language translation services and information retrieval systems.

Block Diagram:



Results and Conclusions:

JARVIS marks a significant advancement in academic providing a transformative tool for scholars, researchers, and educators. Through NLP, JARVIS has revolutionized the way academic tasks are approached, offering streamlined access to vast repositories of scholarly literature, efficient citation management, and personalized instructional support.

Innovation in the project:

- Natural Language Understanding- JARVIS leverages advanced Natural Language Processing (NLP) techniques to comprehend and respond to natural language queries with remarkable accuracy. Through sophisticated algorithms, JARVIS can interpret complex academic questions, extract relevant information from scholarly texts, and provide contextually appropriate responses, mimicking the nuanced understanding of a human assistant.
- Citation Management and Referencing- JARVIS simplifies the often-laborious task of citation management and referencing by automating the process. Through NLP-driven algorithms, JARVIS can parse academic papers, extract citation information, and generate formatted references according to various citation styles, saving scholars valuable time and effort in compiling bibliographies and reference lists.
- Setting the Remainder- User-friendly reminder feature, ensuring students never miss important deadlines or tasks. With just a few clicks or voice commands students can effortlessly set reminders for assignments, exams, or study sessions, helping them stay organized and on track with their academic responsibilities.
- Scheduling the day- It scheduling tasks prioritizing deadlines, and optimizing your workflow. With its intuitive interface and natural language understanding, JARVIS ensures seamless coordination of appointments, meetings, and research activities, allowing you to focus on academic excellence.
- Sending WhatsApp Messages- It send WhatsApp messages with just a voice command, streamlining communication for academics on the go. Its integration with WhatsApp allows for hands-free messaging, enhancing productivity and enabling swift collaboration among researchers and educators.
- Opening the any app on basis of uses need utilizing sophisticated user behaviour analysis, intuitively opens applications based on users' needs in real-time. By dynamically adapting to context and usage patterns, it ensures seamless access to relevant apps, enhancing productivity and streamlining the user experience.

Scope for future work:

- Jarvis is designed to function seamlessly even without an active network connection, ensuring uninterrupted productivity and accessibility to its features.
- Deploying Jarvis for Android ensures its accessibility and convenience across a wide range of devices, empowering users with its intelligent assistance on their mobile platform of choice.

10. BEYOND BOUNDARIES: ENGINEERING JOURNEYS IN RURAL COMMUNITIES THROUGH XR

Project Reference No.: 47S_MCA_0058

College : R.V. College of Engineering, Bengaluru
Branch : Computer Applications
Guide(s) : Dr. Preethi N Patil and Dr. Andhe Dharani
Students : Mr. Srijith V, Ms. Vibha T R and Ms. Sindhu S

Keywords: Extended Reality (XR), Engineering Projects, Rural Communities, Virtual Reality (VR)

Introduction:

In the realm of engineering endeavours aimed at rural community development, the integration of Extended Reality (XR) technologies stands out as a beacon of innovation and promise. At the forefront of this movement lies the creation of 3D models, a fundamental step in the XR journey. Blender, a versatile and powerful tool, emerges as the linchpin for crafting intricate and immersive 3D environments. Its capabilities extend beyond mere visualization, offering a canvas for the manifestation of ideas into tangible digital realms.

Once the models are meticulously sculpted and textured, the focus shifts towards implementation within the Unity Game Engine, a platform revered for its robustness and flexibility. Unity serves as the nexus where creativity converges with functionality, facilitating the seamless integration of 3D assets and the orchestration of dynamic interactions. Here, the rural landscape transforms into a digital playground, ripe with possibilities and opportunities for exploration.

But the essence of this endeavor transcends mere digital replication; it embodies a vision of empowerment and guidance for rural communities. Enter the ConvoAI Plugin, a pioneering addition to Unity's arsenal, designed to imbue the digital realm with artificial intelligence. This AI assistant becomes more than just a virtual entity; it emerges as a beacon of knowledge and mentorship, offering guidance and insights to individuals navigating their career paths within the engineering domain.

This convergence of technologies represents a paradigm shift in community development efforts. It bridges the gap between imagination and reality, empowering rural inhabitants to envision and co-create a future propelled by technological innovation. Through immersive experiences and AI-guided assistance, the boundaries of possibility expand, ushering in an era where rural communities stand at the forefront of engineering ingenuity and progress.

Objectives:

- Develop an immersive XR platform to engage users in dynamic career exploration experiences.
- Integrate AI-driven features to cater to the diverse learning styles and preferences of users.
- To create the personalized interaction to offer users customized guidance and recommendations aligned with their aspirations and goals.
- UI to cater information in English and Hindi languages to enhance accessibility and inclusivity for all users

Methodology:

The project will be implemented in three phases:

Phase I: Platform Development

- *Research and Planning:* Research to understand the needs and preferences of rural students and their parents regarding career exploration in engineering. Plan the development process, including timelines, resources, and milestones.
- *Content Creation:* Develop comprehensive content for the XR platforms, including textual information, 3D models, animations, and interactive elements, covering various engineering branches and career pathways. Ensure accuracy and relevance by collaborating with subject matter experts and educators.
- *Technology Selection:* Choose appropriate technologies for platform development, including XR development tools (such as Unity3D), 3D modelling software (such as Blender), and AI-driven frameworks for personalized learning experiences.

Phase II: Platform Integration

- *XR Environment Development:* Create immersive XR environments that simulate

real-world scenarios in various engineering branches. Focus on intuitive navigation and interactive features to engage users effectively.

- *AI Integration:* Implement AI-driven features to personalize the exploration experience based on individual interests and preferences. Utilize machine learning algorithms to analyse user interactions and provide tailored recommendations.

Phase III: Testing and Deployment

- Testing and Iteration: Conduct thorough testing of the platform to identify any bugs, usability issues, or inconsistencies. Gather feedback from target users, including 12th-grade students, recent 12th passed outs, educators, and counsellors. Iterate on the platform based on feedback, making necessary adjustments to improve usability, engagement, and effectiveness.
- Launch and Monitoring: Launch the Beyond Boundaries platform to the target audience, including 12th-grade students, recent 12th passed outs, educators, and counsellors. Monitor platform usage and engagement metrics to assess effectiveness and identify areas for improvement. Gather feedback from users through surveys, interviews, and usage analytics. Continuously evaluate and update the platform to ensure it remains relevant and valuable to its intended audience.

Results and Conclusion:

- *Immersive Engineering Environment in XR:* Create a virtual reality environment that accurately replicates real-world engineering scenarios, providing users with an immersive experience to explore various branches.
- *Comprehensive Content Creation:* Develop detailed information on engineering disciplines, covering prerequisites, syllabus details, and real-world applications, to lay the foundation for informed decision making.
- *Personalized Learning Experiences:* Integrate AI-driven features to customize the exploration experience, tailoring content and recommendations based on individual interests and preferences in different languages (English, Hindi). KSCST: Student Project Programme: 47 th series: 2023-2024 5
- *Engaging Interactive Learning Scenarios:* Design interactive learning scenarios within the VR environment, including 3D models, animations, and simulations, to enhance understanding and retention of complex engineering concepts.
- *Enhanced Accessibility and Inclusivity:* Increase accessibility and inclusivity of career exploration opportunities for rural students, bridging the gap between rural and urban educational resources, and creating new opportunities for career advancement in engineering and other STEM fields.

Innovation in the project:

The innovation within our project lies at the intersection of Extended Reality (XR) technologies and community-driven engineering initiatives in rural areas. By leveraging XR, we have introduced a novel approach to visualizing, planning, and implementing development projects within these communities.

One key aspect of our innovation is the creation of highly detailed 3D models using Blender, which accurately represent the physical environment of rural areas. These models serve as the foundation upon which our XR experience is built, offering users a lifelike and immersive digital representation of their surroundings.

Furthermore, the integration of these models into Unity Game Engine allows for dynamic interactions and exploration within the virtual environment. Users can navigate through the digital landscape, interact with objects, and visualize proposed infrastructure projects in real-time, fostering a deeper understanding and engagement with the development process.

Another innovative feature of our project is the incorporation of the ConvoAI Plugin, which introduces an AI-driven assistant capable of providing personalized career guidance and support to individuals within the community. This AI assistant adds a human-like dimension to the XR experience, offering valuable insights and assistance tailored to the needs and aspirations of users.

Scope for future work:

Looking to the future, our project lays the groundwork for an array of exciting opportunities and potential avenues for further exploration and impact.

Firstly, we envision expanding the scope of our XR experience to encompass a wider range of community development projects, including infrastructure improvements, environmental conservation efforts, and educational initiatives. By continuously refining and enhancing our 3D models and XR capabilities, we can provide even more immersive and versatile tools for community planning and engagement.

Additionally, we see potential in integrating emerging technologies such as machine learning and spatial computing to further enhance the functionality and interactivity of our XR experience. This could involve developing predictive modeling algorithms to simulate the long-term impact of proposed development projects or incorporating spatial mapping techniques to enable real-time data visualization within the virtual environment.

Furthermore, we aim to foster collaboration and knowledge-sharing among rural communities by establishing a platform for sharing XR experiences and best practices. By facilitating peer-to-peer learning and exchange, we can empower communities to leverage XR technologies for their own unique challenges and aspirations.

Moreover, we recognize the importance of ongoing community engagement and capacity-building efforts to ensure the sustainability and relevance of our project. This could involve conducting workshops, training sessions, and outreach programs to empower community members with the skills and knowledge needed to utilize XR technologies effectively.

In summary, the future of our project is bright and full of possibilities. By continuing to innovate, collaborate, and engage with rural communities, we are confident that our XR initiatives will play a pivotal role in driving sustainable development and empowerment in rural areas for years to come.

11. KANNADA ABSTRACTIVE TEXT SUMMARIZATION USING SEQUENCE TO SEQUENCE MODEL

Project Reference No.: 47S_BE_1049

College : *B.L.D.E. A's V.P. Dr. P.G.Halakatti College of Engineering and Technology, Vijayapura*
Branch : *Computer Science and Engineering*
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Students : *Ms. Sneha G Sajjan, Ms. Ritika Gangavati and Ms. Aliya Bargudi*

Keywords: Deep Learning, Abstractive, Kannada text summarization, Python framework, sequence to sequence model, TensorFlow, stacked LSTM, Neural network, Attention model, encoder, decoder, regional language, NLP, preprocessing, tokenization, stemming, stop words removal.

Introduction:

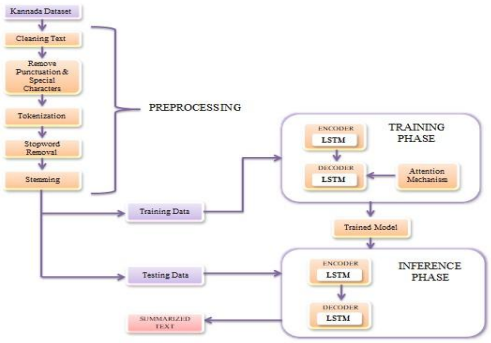
Kannada abstractive text summarization aims to generate concise and coherent summaries of Kannada texts using advanced natural language processing techniques. This project implements a sequence-to-sequence (Seq2Seq) model with an attention mechanism, designed specifically for the Kannada language. The Seq2Seq model comprises an encoder and a decoder, both built with LSTM layers, to capture the contextual information of the input text and generate meaningful summaries. The attention mechanism allows the model to focus on different parts of the input sequence dynamically, improving the quality of the summaries. We preprocess the text data, including cleaning, tokenization, and stemming, to ensure it is suitable for model training. The model is trained on a dataset of Kannada texts and their corresponding summaries, using early stopping to prevent overfitting. Post-training, the model is capable of generating abstractive summaries for new Kannada texts, providing a powerful tool for information condensation in the Kannada language. This project showcases the application of deep learning techniques to a low-resource language,

contributing to the broader field of natural language processing and text summarization.

Objectives:

- To develop a text summarization model for Kannada language using abstractive method.
- To generate Kannada summary including numeric value.

Methodology:



The methodology depicts a text summarization system. It breaks down the process into two main stages: training and testing/inference.

In the training stage, text data in Kannada is collected from a dataset. This data goes through a preprocessing stage where it is cleaned. This cleaning process involves removing punctuation and special characters. The text is then tokenized, which breaks it down into individual words or phrases. Next, stop words, which are common words like "the" or "and" that don't carry much meaning, are removed. Finally, stemming is applied to reduce words to their base form.

After preprocessing, the text is ready for training. An encoder, which is a type of recurrent neural network (RNN) called a long short-term memory (LSTM) network, processes the text data. An attention mechanism is also used, which helps the model focus on important parts of the text. This encoded data is then used to train a decoder LSTM, another recurrent neural network.

Once the model is trained, it can be used to generate summaries of new text data. This new, unseen text data goes through the same preprocessing steps as the training data. The preprocessed text is then fed into the encoder LSTM, which encodes the text data. The decoder LSTM then uses the encoded text data to generate a summary of the text.

Overall, the methodology outlines a system that can be used to automatically generate summaries of text data.

Results and Conclusions:

ROUGE Scores:

• ROUGE-1: F1 Score = 0.639
• ROUGE-2: F1 Score = 0.599
• Average ROUGE F1 Score = 0.615

The ROUGE F1 Score is 0.615, which suggests that the summaries generated by the model are fairly similar to the human-written references.

In the realm of data cleaning and preprocessing, this approach integrates crucial steps such as stemming and the optional removal of stopwords, which are vital for effective text processing. By analyzing the distribution of text lengths, it ensures that preprocessing decisions are well-informed. The model architecture employs an encoder-decoder structure with attention mechanisms, making it particularly suitable for abstractive summarization tasks. The incorporation of LSTMs and dropout layers aids in capturing long-term dependencies and mitigating the risk of overfitting. Additionally, beam search decoding is utilized to enhance the quality of the generated summaries by evaluating multiple candidate sequences, thereby improving the overall output.

Innovation in the project:

- Tailoring the sequence-to-sequence model to Kannada, a language with unique linguistic features, presents a novel challenge in natural language processing.
- Implementing attention mechanisms tailored to Kannada text to enable the model to focus on relevant parts of the input text during the summarization process, thereby improving the quality of generated summaries.

Scope for future work:

- Model can be trained better to preprocess the stressed words(ottakshara) to generate precise summary.
- Model can be better trained to summarize multi lingual numeric data.
- *Hyperparameter Tuning:*

Experimenting with different hyperparameter values (latent dimension, embedding dimension, number of LSTM layers) can potentially improve model performance.

- *Advanced Attention Mechanisms:* Exploring advanced attention mechanisms like self-attention or hierarchical attention could further enhance the model's ability to capture complex relationships within the text.

12. CROWD PREDICTION FOR BUS LINES USING ARTIFICIAL INTELLIGENCE

Project Reference No.: 47S_BE_0343

College : *Biluru Gurubasava Mahaswamiji Institute of Technology, Mudhol*
Branch : *Computer Science and Engineering*
Guide(s) : *Prof. Varun P. Sarvade and Prof. Vinayak A. Telsang*
Students : *Mr. Gopal R. Chenni, Mr. Pradnya S. Bilagi , Mr. Dhanush J. Yadav and Mr. Niranjan S. Purad*

Keywords: Artificial Intelligence. Artificial Neural Network, Long Short-Term Memory, Recurrent Neural Network, Decision Tree, Prediction

Introduction:

KSRTC (Karnataka State Road Transport Corporation) is one of the largest public transport corporations in India. As per KSRTC data for the month of December 2020, 12.93 lakh passengers travel per day and 40% buses have incurred miner and major accidents in the same month, and also KSRTC reported 2000 litters of fuel wastage per 2 to 4 kms. Crowd prediction for bus lines utilizing artificial intelligence is a groundbreaking application that harnesses AI algorithms like Decision Tree, ANN, RNN, and LSTM Models and data analytics to forecast and manage passenger loads and bus capacities. By amalgamating offline data, and machine learning models, this technology aims to revolutionize the public transportation sector. Through predictive analysis, AI algorithms can anticipate and project the volume of passengers at various bus stops or along specific routes at different times of the day. The primary objective is to optimize bus services by efficiently allocating resources, adjusting schedules, and enhancing passenger experience. By anticipating crowdedness, transportation authorities can implement strategies like deploying additional buses, altering routes, or regulating frequencies to mitigate overcrowding and improve overall efficiency.

Objectives:

- Develop an AI model that can accurately predict whether bus should be allocated for the given source and destination.
- To improve public transportation efficiency and passenger experience on KSRTC buses using artificial intelligence models like Decision Tree, Artificial Neural Network, Recurrent Neural Network and Long Short-Term Memory.
- Provide a comparative analysis of all the above-mentioned models in terms of accuracy and loss.

Methodology:

Public transport is a key element to ensure urban mobility and allow citizens to move easily and efficiently in urban areas. However, managing the influx of passengers in public transport is a daily challenge for transport companies. In this context, predicting the number of passengers on bus lines is essential to optimize the planning, management and organization of the public transport service. In this project, we propose a methodology to predict the number of passengers on bus lines.

Here we have to use KSRTC bus data set and it consist the following parameters

Source	Destination	Trip	Route	Slot No	Adults	Childs	Revenue	Passenger count	Label
1	2	3	1	1	50	4	2589	54	1
1	4	3	1	1	50	10	3289	60	1
1	7	2	2	2	48	4	5478	52	0
1	13	2	3	3	49	7	5100	56	1
1	10	2	3	3	54	4	4989	58	1

Table: Sample Data Set

After collecting the data to compare, the next step is to load and pre-process the data, to ensure that it is in the correct format and that it was clean and error-free. The following steps will be used for preprocessing:

- *Data cleaning:* Removal of missing values, duplicates and correction of errors.
- *Feature scaling:* Rescale the data so that each feature has a similar scale. Common scaling

techniques include min-max scaling, standardization, and normalization.

- *Feature engineering:* Create new features from existing features that might be more informative for the model. These can be transformations, aggregations or combinations of features.
- *Data encoding:* Convert categorical data into numerical data. It can be point coding, ordinal coding or binary coding.
- *Data Splitting:* Split your data into training and testing sets. The training set is used to train the model, and the test set is used to evaluate the performance of the model on new, unpublished data. Another step in the data mining process, when the end goal is to predict the outcome, is to create visualizations that help understand the outcome and discover the relationships between attributes and the outcome.

Requirements Specification:
Hardware Used

- *Processor:* 12th Gen Intel(R) Core (TM) i5-1235U 1.30 GHz
- *Memory:* 8.00 GB
- *Hard Disk space:* 2GB Others: Computer peripherals, such as keyboard and mouse

Software Used

- *Operating System:* Windows 10
- Google Colab

Conclusion:

The successful implementation of AI for crowd prediction in bus lines holds immense potential for optimizing public transportation systems. By leveraging data-driven insights, transit authorities can proactively manage crowd levels, enhance passenger experiences, and ultimately improve the overall efficiency of urban mobility. As we continue to refine and expand upon this project, we aim to contribute to the advancement of smart transportation solutions for sustainable and accessible cities.

Innovation of the project:

- The successful implementation of AI for crowd prediction in bus lines holds immense potential for optimizing public transportation systems.
- By leveraging data-driven insights, transit authorities can proactively manage crowd levels,
- As we continue to refine and expand upon this project, we aim to contribute to the advancement of smart transportation solutions for sustainable and accessible cities.

Scope for Future Work:

- Multimodal data integration: Incorporating real-time data from various sources like traffic conditions, weather patterns, and social media trends can improve prediction accuracy.
- Advanced AI models: Exploring deep learning techniques like recurrent neural networks (RNNs) and convolutional neural networks (CNNs) can capture complex spatiotemporal patterns in ridership data.
- Dynamic bus scheduling: AI can optimize bus routes and schedules based on predicted passenger volumes, reducing wait times and overcrowding.
- Passenger information systems: Real-time crowd prediction can be integrated into mobile apps, allowing passengers to choose less crowded buses or alternative routes.
- Personalized recommendations: AI can suggest personalized travel options based on user preferences and real-time conditions, promoting a seamless commute.
- By leveraging AI's capabilities, bus line crowd prediction can become a powerful tool for improving public transport efficiency and passenger satisfaction.

13. A DEEP LEARNING APPROACH TO DETECT RHEUMATOID ARTHRITIS USING X-RAY IMAGES AND BIO MARKERS

Project Reference No.: 47S_BE_0909

College : *Mangalore Institute of Technology and Engineering, Moodbidri*
Branch : *Computer Science and Engineering*
Guide(s) : *Dr. Pradeep B S*
Students : *Mr. Shreyas S Tantri, Mr. Shreyas Shetty B, Mr. Sourabh P and Mr. Vinayak Nayak N*

Keyword: Rheumatoid Arthritis, ACR/EULAR 2010 criteria, Deep Learning, Ensemble, Healthcare.

Introduction:

Rheumatoid arthritis (RA) is a chronic autoimmune condition that primarily affects joints, where the immune system mistakenly attacks healthy tissues, leading to symptoms like joint pain, swelling, stiffness, and impaired function. RA presents significant clinical challenges due to its persistent nature, potential for joint deformities, and systemic complications. Traditional diagnostic methods often lack accuracy and timeliness, prompting the need for innovative approaches.

To address these challenges, a novel system integrates deep learning techniques with multi-modal data, including blood biomarkers and therapeutic images of affected hand joints, aiming to revolutionize RA diagnosis and severity assessment. Leveraging a comprehensive dataset and considering symptom duration, this approach surpasses existing methods' limitations, offering superior diagnostic accuracy and early detection capabilities. Through rigorous evaluation, the system demonstrates reduced false positives and false negatives, improving patient outcomes and minimizing long-term joint damage. Additionally, this innovative system contributes to advancing the understanding of RA pathophysiology and treatment effectiveness by fostering scientific advancements through dataset development.

Objectives:

- Design and implement a seamless fusion mechanism integrating X-ray images with patient-specific biomarker data for deep learning input that provides scope for a Multi-Modal Data Integration Framework.
- Develop a Deep Learning Model optimized for medical image analysis, utilizing transfer learning and rigorous cross-validation for robust Rheumatoid Arthritis joint abnormality identification, providing a foundation for a Deep Learning Model tailored for X-ray Analysis.
- Create an integrated clinical decision support system leveraging ACR/EULAR 2010 criteria and deep learning outputs. Provide a user-friendly interface for clinicians with diagnostic outcomes, emphasizing the scope for integration with Clinical Decision Support.

Methodology:

Data Collection:

- Acquire a diverse dataset of X-ray images depicting hands affected by Rheumatoid Arthritis (RA). Ensure the dataset includes a wide spectrum of severity levels to enhance model robustness.
- Gather relevant demographic and clinical data, including RF factor, Anti-CCP values, age, sex, and duration of symptoms, for each patient corresponding to the X-ray images.

Data Preprocessing:

- Perform data cleaning and standardization to ensure consistency and eliminate potential biases.
- Annotate X-ray images to highlight joints affected by RA based on the ACR/EULAR 2010 criteria, creating a labeled dataset for training the deep learning models.

Web User Interface:

- Develop a user-friendly web interface to facilitate seamless interaction for users to upload X-ray images and input bio-marker data.
- Implement a backend system to handle user inputs, segregate image and text data, and pass them to the respective deep learning models.

X-ray Image Analysis:

- Identify cutting-edge deep learning models designed for object detection, including options such as VGG19, YOLOv5, and YOLOv8, and subsequently fine-tune the

most appropriate model using the annotated X-ray dataset.

- Focus the model on detecting RA-affected joints in the hand, providing precise localization of affected areas.
- Implement an ensemble approach to combine the predictions of multiple models, enhancing the accuracy and reliability of the final output.

Serology Data Analysis:

- Develop a deep learning model to process bio-marker data, including RF factor, anti-CCP values, and demographic information.
- Train the model to compare the input data with established normal ranges, identifying abnormalities indicative of Rheumatoid Arthritis.
- Implement a mechanism to consider overlapping symptoms and enhance the accuracy of early diagnosis.

Ensemble and Final Output:

- Combine the outputs from the image analysis and text data analysis models using an ensemble approach.
- Generate a comprehensive report summarizing the observations made by the hybrid model.
- Provide a clear and interpretable output to assist healthcare professionals in making informed decisions regarding the presence and severity of Rheumatoid Arthritis.

Validation and Performance Evaluation:

- Validate the models using a separate dataset to ensure generalization to unseen cases.
- Employ appropriate metrics such as sensitivity, specificity, and accuracy to evaluate the performance of each model and the ensemble system.

Ethical Considerations:

- Ensure the project adheres to ethical patient data privacy and consent guidelines. Implement mechanisms to safeguard against bias in the models, especially considering the potential impact on patient outcomes

Results and Conclusion:

The results section encapsulates the outcomes of the comprehensive system, encompassing joint detection, anomaly detection, and the synthesis of final diagnostic summaries.

The figure below comprises the original input hand X-ray image alongside visual representations of the deep learning model's output for joint detection. Within these visualizations, distinct bounding boxes delineate unaffected joints, depicted in green, and joints afflicted by RA, highlighted in red.

Additionally, each identified joint is accompanied by an associated score, reflecting the system's assessment of RA likelihood. Corresponding diagnostic messages contextualize the severity and implications of the detected abnormalities.



Figure: Input hand X-ray image

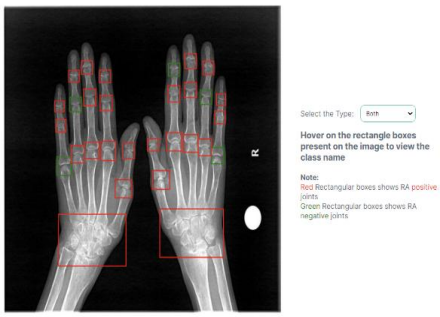


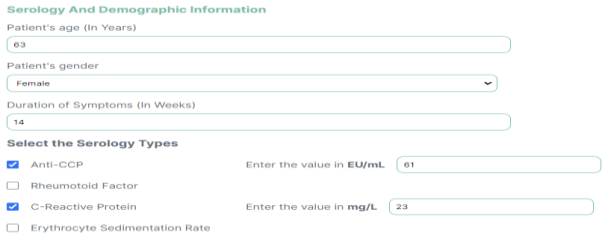
Figure: Detected joints in the image



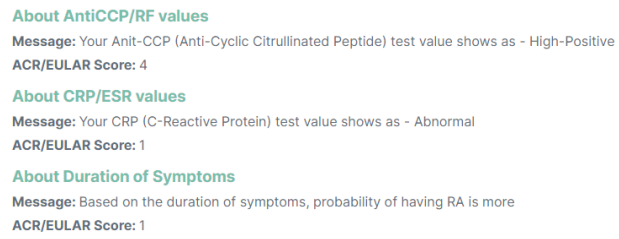
Figure: Output message and score

A sample set of serology and demographic data are considered, each analyzed for anomalies. The system assigns scores and generates corresponding diagnostic messages, elucidating the detected anomalies and their severity and

implications within the context of RA diagnosis, which are shown in Figure below.



Input serology and demographic data



Output message and score

The value of this initiative lies in its potential to meet a critical requirement in the medical realm by employing deep-learning methodologies for diagnosing Rheumatoid Arthritis. By integrating medical imagery with the hematological examination, the accuracy of RA identification is heightened, facilitating timely intervention and improving patient prognosis. The ramifications for healthcare are immense, as successfully deploying this initiative could transform RA diagnosis and therapy. Through the earlier detection enabled by the diagnostic instrument, health practitioners can intervene more effectively, potentially curbing the progression of RA and augmenting the quality of existence for impacted individuals.

Innovation of the Project:

Our project aims to revolutionize RA detection by following ACR/EULAR 2010 criteria, through the implementation of a sophisticated deep-learning model and ensemble decision trees. By harnessing the power of X-ray images and blood biomarkers, we've developed a cutting-edge solution that promises accurate and early diagnosis of RA, paving the way for improved patient outcomes and enhanced healthcare delivery.

Scope for future work:

In future endeavours, several avenues for further research and development emerge from this initiative's groundwork. Firstly, refining and optimizing the deep learning models used for RA diagnosis could enhance their performance and robustness further. This may involve exploring novel architectures, incorporating additional data modalities, or fine-tuning hyperparameters to achieve even greater accuracy and reliability in RA detection.

Secondly, expanding the scope of the diagnostic framework to encompass other rheumatic diseases beyond RA could broaden its applicability and impact. Investigating how similar methodologies can be adapted to diagnose other similar conditions, could provide valuable insights into the broader landscape of autoimmune rheumatic diseases.

Overall, future work in this domain holds the potential to further revolutionize rheumatology practice, paving the way for more accurate, timely, and personalized diagnosis and treatment of autoimmune rheumatic diseases. Through ongoing research, innovation, and collaboration, the ultimate goal is to improve the lives of individuals affected by these conditions and advance the field of rheumatology as a whole.

14. TULIPU: A DIGITAL PLATFORM FOR PROMOTING TULU CULTURE

Project Reference No.: 47S_BE_2794

College : *N.M.A.M. Institute of Technology, NITTE*
Branch : *Computer Science and Engineering*
Guide(s) : *Dr. Raghunandhan K R and Dr. Radhakrishna Doddmane*
Students : *Mr. Adarsh J Shetty, Mr. Amith Jagannath Soorenji, Mr. Prathik K Acharya and Mr. Suvith Kumar*

Keyword: LSTM, tokenizer, Encoder, Decoder, BLEU score, NextJS, Prisma ORM, Vercel, Git, RNN, Machine Learning, NodeJS, Serverless

Introduction:

Nevertheless, amidst these ambitions, we confront formidable obstacles. Preserving the intricate fabric of Tulu language and culture necessitates delicate navigation through linguistic and cultural intricacies. Moreover, ensuring the adaptability and longevity of our digital platform demands ongoing expertise and research endeavours.

Welcome to a groundbreaking initiative committed to safeguarding and celebrating the essence of the Tulu language and culture. This project is a testament to our dedication to building a robust digital platform that caters to Tulu speakers, enthusiasts, and learners alike. Our Tulu website stands as a virtual haven, offering a comprehensive repository of language resources, a calendar of cultural events, initiatives for language promotion, and a captivating showcase of Tulu Nadu's vibrant heritage. In recognizing the challenges posed by a limited audience, scarce resources, and the necessity for cultural sensitivity, this project embarks on a mission to counteract the decline of Tulu's prominence. We strive to achieve this by cultivating awareness, fostering pride, and nurturing a profound connection within the Tuluva community.

Our commitment extends beyond mere acknowledgment of limitations. Despite potential audience constraints and resource scarcity, we push forward, undeterred, introducing practical tools designed to bridge gaps. The incorporation of a Tulu translator and an interactive learning game is a testament to our determination to make Tulu accessible and enjoyable for all. However, we are not blind to the hurdles that lie ahead. The challenges of linguistic representation and the delicate task of navigating cultural nuances necessitate ongoing expertise and research. Emphasising the importance of a dynamic, continually evolving approach, we recognize that the development of a Tulu translator is a nuanced process that requires sustained effort and collaboration.

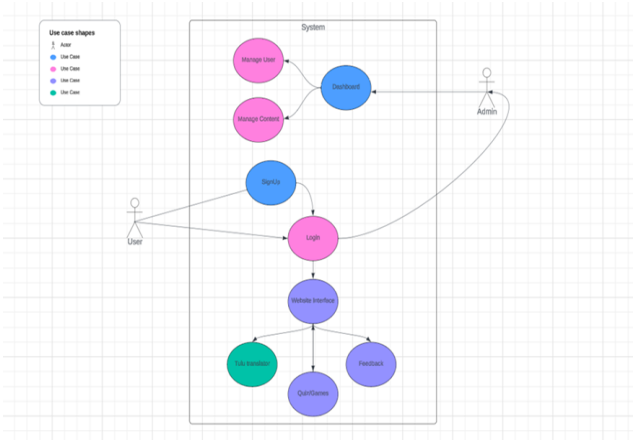
As we embark on this journey, we invite you to be a part of a movement that transcends barriers and revitalises the rich tapestry of Tulu language and culture. Together, let us shape a digital space that not only preserves but also propels the legacy of Tulu into a vibrant and enduring future.

Objectives:

- Comprehensive digital platform development and club activities documentation
- Tulu translator development with text-to-text translation and audio input to audio output translation
- Cultural events promotion in collaboration with the club
- Language promotion Initiatives
- Addressing audience constraints through blogs and quiz
- Cultural sensitivity and preservation

Methodology:

Website:



The above user interaction gives the website structure which can be accessed at www.tudar.in hosted on vercel serverless platform.

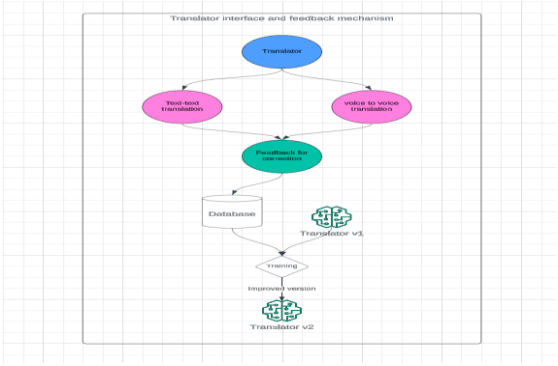
Quiz/ game:

Interactive games such as quiz included in the website to enhance the user interaction and develop a platform to understand and learn Tulu.

Admin Dashboard

- *Event and Blog Management:*
  Admin has access to add, edit, or remove events and blogs with ease.
- *User Management:*
  User Management functionality, granting admin the ability to add or remove members, assign roles, and manage permissions of the users.

Translator Model:



Data Collection Procedure:

- Manually scraped Tulu to Kannada or vice versa sentences from diverse web sources.
- Added individual words, numbers, and key terms manually to enrich the dataset.
- Accumulated over 5000 unique pairs of Tulu-Kannada translations through meticulous collection efforts.
- Utilized this extensive dataset as the basis for preprocessing and subsequent.

```
erna pudarena    ninna hesarenu
erna illa ol     nimma mane elli
eer dayeg baidini       nivu yake baruttiri
eer mulpa yencha ullar  nivu illi eke iddira
yaan tuvare mul kulluve nanu viksisalu illi kulitukolluttene
a urudha pudarena       i halliya hesarenu
uddezakke bamdilla  ovla ath yaan ovla uddesakk baidiji yavudu illa nanu yavude
bokka soup kinre illag pola     namtara nimma sup tinnalu manege hogi
andh dayamalth yenk choor korle haudu: dayavittu nanage svalpa kodi
```

Figure: Dataset Template

Data Preprocessing:

- Removal of all punctuation characters: We utilize Python's built-in string.punctuation module to create a translation table, which is then applied to remove all punctuation from the text.

```
table = str.maketrans('', '', string.punctuation)
```

Removal of all punctuation

- Normalization of Unicode characters to ASCII: We normalize any Unicode characters to their ASCII equivalents to ensure consistency and compatibility.

```
line = normalize('NFD', line).encode('ascii', 'ignore')
```

Normalization of Unicode characters to ASCII

- Case normalization: We convert all text to lowercase to standardize the case and avoid case sensitivity issues.

```
line = [word.lower() for word in line]
```

Case normalization

Model Definition:

LSTM:

Long Short-Term Memory Networks is a deep learning, sequential neural network that allows information to persist. It is a special type of Recurrent Neural Network which is capable of handling the vanishing gradient problem faced by RNN. Let's say while watching a video, you remember the previous scene, or while reading a book, you know what happened in the earlier chapter. RNNs work similarly; they remember the previous information and use it for processing the current input. The shortcoming of RNN is they cannot remember long-term dependencies due to vanishing gradient. LSTMs are explicitly designed to avoid long-term dependency problems.

Training Phase:

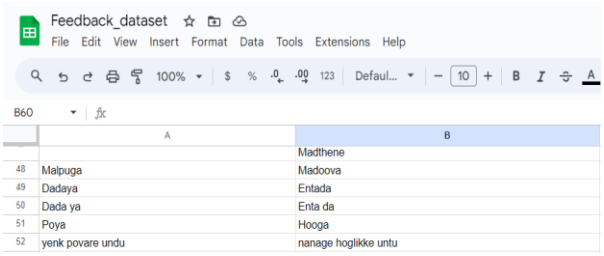
During training, the model's architecture is defined, specifying the layers and connections. The model is then compiled with a chosen optimizer and loss function. The training process involves feeding the training data into the model in batches, allowing it to learn patterns through iterative updates of its weights. This process is governed by hyperparameters such as the number of epochs and batch size. To enhance training, techniques like cross-validation, regularization and early stopping are often employed. Throughout this phase, metrics are recorded to evaluate the model's performance, guiding further adjustments and improvements.

The training data is prepared by encoding and padding sequences, followed by one-hot encoding the target sequences. The model is compiled with the Adam optimizer and categorical cross-entropy loss function, and training is performed over 100 epochs with a batch size of 64.

ModelCheckpoint is used to save the best model based on validation loss.

Feedback dataset:

We have incorporated feedback into the Tulu translator UI, enabling users to provide the expected output whenever the model prediction is incorrect. This dataset can be used to train the model again for better accuracy.



Excel Sheet showing feedback collected

Results and Conclusion:

Website:

- Successfully launched a comprehensive website for Tulu speakers, enthusiasts, and learners.
- Provides a central hub for language resources, cultural events, and Tulu Nadu heritage.
- Dedicated to the preservation and celebration of the Tulu language and culture.
- Meticulously completed Tulu club documentation, covering activities, membership, and administration.
- Ensures smooth operations and effective communication within the Tuluva community.

Translator:

We applied the LSTM model and obtained the following BLEU scores for the test and train phase. The overall accuracy of our model is 79.0%.

Train:

BLEU-1	0.970429
BLEU-2	0.885059
BLEU-3	0.769703
BLEU-4	0.586904

Test:

BLEU-1	0.846699
BLEU-2	0.767798
BLEU-3	0.687083
BLEU-4	0.537246

LSTM Model Result

We applied the RNN model and obtained the following BLEU scores for the test and train phase. The overall accuracy of our model is 78.301%.

Train:

BLEU-1	0.970429
BLEU-2	0.879496
BLEU-3	0.763558
BLEU-4	0.580095

Test:

BLEU-1	0.820524
BLEU-2	0.719282
BLEU-3	0.623274
BLEU-4	0.449840

Figure: RNN Model Results

Comparison of Bleu Scores: RNN and LSTM:

The LSTM model achieves a higher BLEU score compared to the RNN model, indicating superior translation accuracy and fluency.

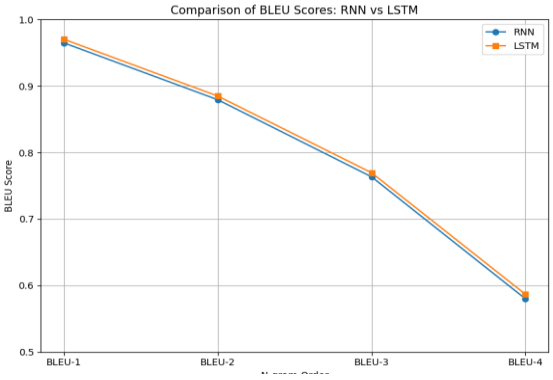


Figure: Comparison of BLEU scores RNN Vs LSTM

Comparison of Training Time: RNN vs LSTM:

The graph illustrates the comparative training times between Recurrent Neural Networks (RNN) and Long Short-Term Memory (LSTM) networks over 80 epochs. Both models exhibit consistent training times, with LSTM consistently requiring slightly more time per epoch compared to RNN.

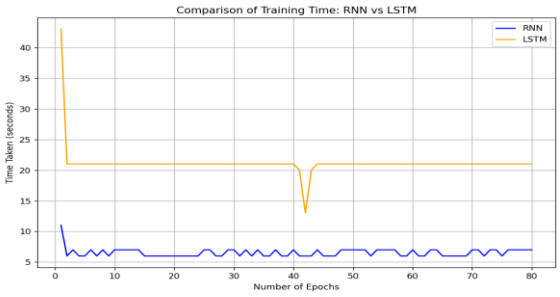


Figure: Comparison of training time RNN Vs LSTM

Validation Loss Over Epochs

The graph illustrates the trend of validation loss over the course of training across 80 epochs. It shows a steady decrease in validation loss, indicating improvement in the model's performance as training progresses. The decreasing trend suggests that the model is effectively learning from the training data and generalizing well to unseen validation data.

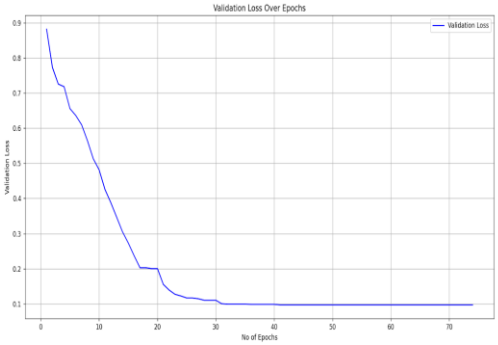


Figure: Epoch vs Validation loss

Conclusion:

Our project has successfully developed a Tulu language translator using an LSTM model. Through rigorous evaluation and validation processes, including the calculation of BLEU scores, we have demonstrated the efficacy and accuracy of our LSTM-based translator in converting text from English or Kannada into Tulu and the converting it to audio. The utilization of advanced deep learning techniques has enabled our model to maintain the natural flow and fluency of translated text, ensuring a high-quality user experience. This achievement underscores the potential of machine learning in facilitating cross-lingual communication and promoting linguistic diversity.

The availability of our Tulu translator online opens up new avenues for individuals, communities, and organizations to engage with the rich cultural heritage and linguistic diversity of the Tulu language. Users can now seamlessly communicate, share information, and connect with Tulu-speaking communities worldwide, transcending linguistic barriers and fostering a sense of global inclusivity. Moreover, the user-friendly interface of the Streamlit platform makes the translator easily accessible to individuals with varying levels of technical expertise, promoting widespread adoption and usage.

Innovation in the project:

Custom Dataset Creation

- Collection and Annotation: If you collected and annotated a substantial corpus of Tulu text and its translations, this is a major innovation. Low-resource languages often lack large, annotated datasets, so your work in this area is highly valuable.
- Data Augmentation Techniques: Implementing techniques to augment the data, such as back-translation or using synthetic data, would help improve the model's performance.

Text-to-Speech Integration

- High-Quality Speech Synthesis: GoogleTTS provides high-quality, natural-sounding speech synthesis, enhancing the user experience with clear and accurate pronunciations.

Scope for future work:

There are several exciting opportunities for further development and enhancement of our project. Firstly, we aim to improve the dataset used for training our model to achieve even higher accuracy and reliability in translation tasks. This involves sourcing and incorporating more diverse and comprehensive language data to better capture the nuances of the Tulu language.

Additionally, we plan to explore hyperparameter tuning techniques to optimise the performance of our model further. Furthermore, we envision implementing a physical device that houses our translation software, serving as a portable translator device for users. This device would allow individuals to access translation services offline and in remote areas where internet connectivity may be limited. It would provide a convenient and accessible solution for bridging language barriers in various settings.

In addition to translation services, we aim to integrate Tulu script learning classes and resources into our website. This initiative aims to empower users to not only communicate in Tulu but also to learn and appreciate the Tulu script. By offering structured learning materials, tutorials, and interactive exercises, we aspire to promote Tulu script literacy among both native speakers and learners. Furthermore, we aspire to enhance our model's capabilities to recognize Tulu script and facilitate its conversion into other languages. This functionality would enable users to translate text from Tulu script into different languages, further facilitating cross-lingual communication and cultural exchange.

By pursuing these avenues of development, we aim to create a more comprehensive and inclusive platform that not only facilitates language translation but also promotes linguistic diversity, cultural appreciation, and script literacy within the Tulu-speaking community and beyond.

15. AGRICULTURAL UTILITY VEHICLE WITH FIELD MONITORING USING IoT

Project Reference No.: 47S_BE_1435

College : Bapuji Institute of Engineering and Technology, Davangere
Branch : Electrical and Electronics Engineering
Guide(s) : Dr. Shivakumaraswamy. G. M
Students : Ms. Priyanka Ningappa Naregal, Ms. Sahana Ramesh Meti
Ms. Sneha Ramesh Soratur and Mr. Suraj Prakash Kadur

Keywords: Smart agriculture, Internet of Things (IoT), Automation, Crop management, Sensor integration

Abstract:

Agriculture plays a vital role in feeding the growing global population. To improve productivity and sustainability this project introduces a utility vehicle equipped with Internet of Things (IoT) technology. The utility vehicle is designed to perform tasks, such as removing weeds, spraying pesticides and applying fertilizers. The IoT system integrated into the vehicle provides real time data on temperature, humidity and soil moisture. This valuable information enables farmers to make informed decisions for optimized crop management. By leveraging automation and data driven insights this smart agriculture solution aims to reduce labor, enhance efficiency and ultimately boost crop yields. Through the integration of operations, with IoT based field monitoring this project seeks to revolutionize farming practices and contribute to the modernization of agriculture.

Introduction:

Agricultural Utility Vehicle merges simple locomotion with smart IoT technology, revolutionizing traditional farming. It handles tasks like weeding, pesticide spraying, and fertilizing while tracking vital crop metrics like temperature and soil moisture in real-time. Data is relayed to a central server for analysis and accessible to farmers, empowering informed decisions for optimal crop care. This innovation addresses the urgent need for sustainable agriculture, enhancing efficiency and crop yields. Its integration of IoT sensors ensures seamless data collection and transmission, supporting remote monitoring and decision-making. Powered by electric propulsion and renewable energy sources, it prioritizes environmental sustainability. With an intuitive interface controlled by the ESP32 microcontroller,

it offers user-friendly operation for farmers. In conclusion, our project represents a pivotal advancement in agricultural technology, enabling data-driven decisions and fostering sustainable farming practices.

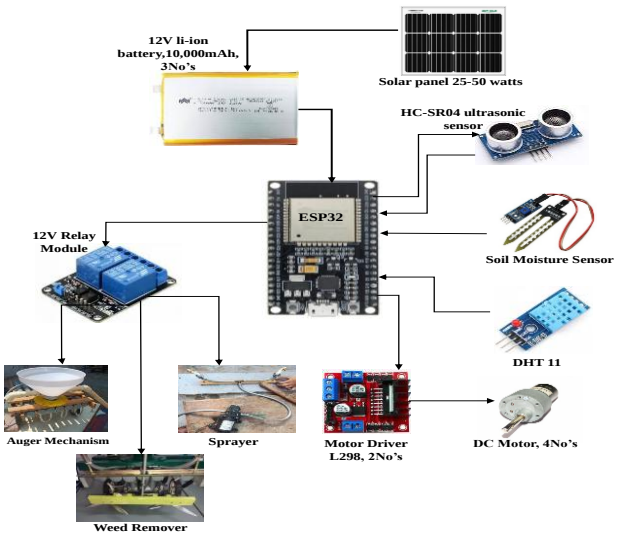
Objectives:

The main objectives of the system are:

- Enhancing farming efficiency by automating and optimizing agricultural tasks.
- To reduce the farmer's effort and labor cost substantially.
- To reduce use of fossil fuels by replacing it with solar power to operate the vehicle.
- Improving resource management by utilizing real-time data on soil conditions, crop health and environmental factors.

Methodology:

The methodology encompasses the careful integration of hardware and software components, starting with a detailed analysis of requirements and followed by systematic planning and implementation. The following block diagram illustrates the structured framework guiding the development phases, offering a visual representation of the interconnected components driving the functionality of the agricultural utility vehicle.



Block Diagram of Agricultural Utility Vehicle with Field Monitoring using IoT

Following the visualization of our system through the block diagram, our methodology delivers into the systematic implementation of sensor integration, data acquisition and communication protocols to facilitate seamless interaction between the agriculture utility vehicle and the IoT-based field monitoring system.

- Assemble a 4-wheel drive Rover with four DC Motors for movement.
- Power the vehicle with Lithium-ion Battery, supported by a Battery Charger and Solar Panel.
- Implement ESP32 for IoT control and connect sensors for Humidity, Temperature and Soil Moisture.
- Transmit sensor data wirelessly to a central database using IoT protocols.
- Design a user-friendly interface the ESP32 for real-time data display and user interaction.

The process commenced with a thorough analysis of project requirements, identifying key functionalities and components. Subsequently, a meticulous planning phase took place, outlining the integration of hardware and software elements. The implementation phase involved the assembly of components as per the design, ensuring seamless interaction. Rigorous testing and iterative refinement concluded the methodology, assuring the functionality and reliability of our innovative agricultural utility vehicle.

Circuit Diagram

The circuit diagram provides a comprehensive overview of the electrical connections and components utilized in the project. It visually represents the system's architecture, including sensors, actuators, microcontrollers and power sources, facilitating a clear understanding of the project's electronic implementation, as shown in the figure.3.1.

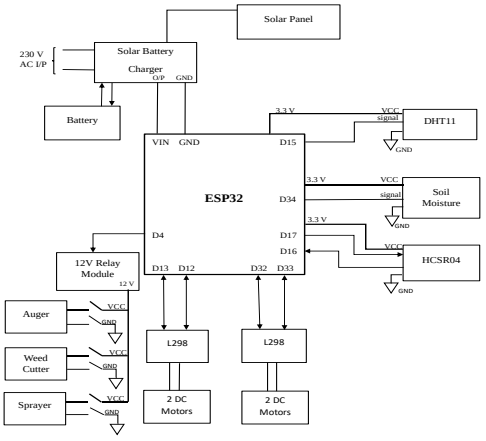


Figure: Circuit Diagram of Agricultural Utility Vehicle with Field Monitoring Using IoT

The connection setup involves several key components. Firstly, the solar panel's positive terminal is attached to the input (230V AC) of the solar battery charger, while the negative terminal grounds to the charger. This charger's output then connects to the positive terminal of the battery, with the battery's negative terminal linking to the system's ground (GND). Moving on, the DHT11 sensor's positive terminal (VCC) is wired to the ESP32's 3.3V pin, while its negative terminal (GND) is securely connected to the ESP32's ground (GND) pin.

For data transmission, the DHT11's signal pin is precisely connected to pin D15 of the ESP32. Continuing, the ESP32's power management involves linking its positive terminal (VCC) to the battery's positive terminal, while its ground (GND) pin is effectively connected to the battery's negative terminal, ensuring proper power distribution. For controlling external devices, such as a relay, the relay's positive terminal (VCC) is carefully wired to the ESP32's D4 pin, with its control pin connected to a designated pin of the ESP32 (D13, D12, D32, D33, depending on the design). Ensuring proper grounding, the relay's ground (GND) pin connects to the ESP32's ground (GND) pin. Finally, for actuating functions, such as driving a DC motor, the motor's positive terminal is connected to the relay's positive output (12V), while its negative terminal securely grounds to the ESP32's ground (GND) pin.

Results:

Solar-powered automatic irrigation systems are revolutionizing how we water our plants. By harnessing the sun's power, these systems are environmentally friendly, reducing reliance on fossil fuels. Smart sensors ensure plants receive the exact amount of water needed, preventing waste and promoting healthier growth. Automation frees up time and labor costs, while scalability allows the system to fit small gardens or vast fields. Advanced features like smartphone apps and weather integration offer further optimization. Although the initial investment might be higher and sunlight availability is a factor, the long-term benefits and minimal maintenance make solar-powered automatic irrigation systems a sustainable and efficient choice for a thriving, green landscape.



Figure: Agricultural Utility Vehicle with Field Monitoring using IoT

Conclusion:

Solar-powered automatic irrigation systems utilize renewable energy, reducing reliance on fossil fuels and minimizing environmental impact. Equipped with smart sensors, they monitor soil moisture, humidity, and temperature, delivering precise watering to promote healthy plant growth and conserve water. This data informs user decisions, optimizing tasks like weed removal and fertilizer application based on field observations. Automating irrigation saves time and labor costs, allowing focus on other farm tasks. With scalability, these systems suit both small gardens and large agricultural fields.

16. GENERATION OF POWER, EXTRACTING MAXIMUM POWER FROM URINE WASTE THROUGH MICROBIAL FUEL CELL

Project Reference No.: 47S_BE_5330

College : *Presidency University, Bengaluru*
Branch : *Electrical and Electronics Engineering*
Guide(s) : *Mr. Bishakh Paul*
Students : *Mr. Kushal R, Mr. Ramegowda K T, Ms. Hamsa Shree R and Ms. Fiza*

Keywords: Microbial Fuel Cells (MFCs), Renewable Energy, Urine Utilization, Bio-electrochemical Systems, Sustainable Power Generation

Introduction:

To Estimate and Maximize the Voltage output of Microbial Cells

- With urine serving as a renewable substrate, the thesis project's goals center on maximizing power generation efficiency through a variety of microbial fuel cell (MFC) technologies.

To determine the effect of Cell Configuration and Electrode Materials for generation of power through microbial fuel cells

- Determining the impact of electrode materials and cell architecture on the generation of power in microbial fuel cells is another goal.
- The effects of various electrode materials (such as metal alloys and carbon-based materials) and cell designs (such as single- and dual-chamber cells) on MFC performance will be assessed through experimental research.
- Efficient electron transfer kinetics and total power production can be improved by identifying the best electrode materials and cell layouts.

To develop and commercialize urine-based microbial fuel cell technologies by fusing theoretical insights with experimental data

- The ultimate goal is to create useful suggestions for enhancing the performance of microbial fuel cells based on theoretical understanding and experimental results.
- This involves putting forth creative ideas to improve the efficiency of the system, microbial activity, and substrate use.
- The development objective places a strong emphasis on turning research findings into practical suggestions for MFC use, operation, and design.
- This mission is to support the development and commercialization of urine-based microbial fuel cell technologies by fusing theoretical insights with experimental data.

Objectives:

- The main goal of this study is to determine whether employing microbial fuel cells to produce power from urine is feasible and effective.
- Among the specific objectives are:
- Determining the best materials and electrode layouts for MFCs.
- Evaluating how urine content affects MFC efficiency.
- Assessing the practical use and scalability of urine-powered MFCs.
- Examining the socioeconomic and environmental advantages of using MFCs for wastewater treatment and decentralized electricity generation.

Methodology:

- Materials and Construction: Graphite and carbon cloth are two examples of the materials chosen for the electrode. Building MFCs with two chamber arrangements.
- Microbial Inoculation: To start the metabolic processes, electrochemically active bacteria are injected into MFCs.
- Urine Collection and Preparation: Gathering urine samples from different sources while making sure that its composition is consistent.
- Experimental Setup: assembling electrical circuits to detect voltage and current outputs,

and configuring MFCs under controlled circumstances.

- Data collection: To track performance over time, temporal analyses are performed after electrical outputs are recorded using digital multimeters.
- Optimization: Increasing power generation by modifying parameters including pH, temperature, and flow rates.
- Analysis: Deciphering information to spot patterns and tweak settings for maximum effectiveness.

Result and Conclusions:

- The composition of the urine and the materials used for the electrodes were shown to have a substantial impact on the voltage output variability.
- Particular pH values and electrode arrangements were found to be ideal for optimizing power production.
- The findings showed that human urine could efficiently power MFCs, suggesting possible uses for this technology in off-grid energy systems.
- There was discussion of issues including limited power output and the stability of microbial communities, which suggests more research in these areas.
- The project's conclusion is that, although urine-powered MFCs show promise, actual deployment will require advances in microbial engineering and materials science.

Scope for Future Work:

- Prospects for Future Research: By using biofilm engineering and novel electrode materials, future research should concentrate on improving MFC efficiency.
- The reliability and total energy output of MFC integration with other renewable energy sources, such solar and wind, may be enhanced.
- Investigating the techno-economic viability of urine-fed MFCs and conducting long-term studies on their stability and scalability are crucial.
- Working together with business and legislators will be essential to resolving regulatory obstacles and encouraging the use of this technology.
- Furthermore, examining hybrid systems and resource recovery techniques will solidify MFCs as an environmentally friendly option for waste management and energy production.

17. DESIGNING OF MIMO ANTENNA FOR SIGNAL BOOSTER DEVICE TO ENHANCE THE SIGNAL CONNECTIVITY IN RURAL AREAS

Project Reference No.: 47S_BE_3428

College : *Nagarjuna College of Engineering and Technology, Bangalore*
Branch : *Electronics and Communication Engineering*
Guide(s) : *Dr. Vivek Singh*
Students : *Mr. Naseer Ulla Khan, Mr. Rahul Yadav, Ms. Priyanka R and Ms. Gowthami L.R.*

Keywords: Millimeter wave, MIMO Antenna, Gain, Impedance Bandwidth, Polarization

Introduction:

If you reside in a remote region, you are almost certainly miles from a cell tower. Cell signal strength is greatest at the source (the cell tower) and diminishes as it goes, resulting in the poor signal. In isolated places, buildings are often surrounded by woods, mountains, or hills, or a mix of the three. These geographical characteristics interfere with or degrade the signal strength of mobile phones. The signal loses power as it passes past such obstructions on its way to your phone's antenna. If you struggle to maintain a strong, consistent mobile signal, a cell phone signal booster can undoubtedly assist you. A cellular booster is a device that utilises an external antenna to collect an existing outside signal, an amplifier to boost the signal, and an interior antenna to rebroadcast the increased signal. In remote areas, it is critical to have a dependable mobile phone service. A home booster will assist in

alleviating the annoyance associated with an unreliable mobile phone signal. The whole globe is reacting to the reality of the Covid-19 epidemic by devising workarounds for the disturbances already experienced. Corporations are enabling employees to work from home, while schools and institutions are transitioning to online classrooms. In India, individuals are largely reliant on good internet connections, laptops, and cell phones to resume normalcy. Students have been prompted to pursue e-learning alternatives by the crisis, which has no end in sight. As the nation transitions to online education, the present epidemic is disproportionately affecting rural students. However, even in isolated rural locations, e-learning is revolutionizing the industry. Tier-3 and Tier-4 municipalities are stepping up their game by investing in the development of digital education systems. While many are taking advantage of online education, local governments are having difficulty integrating high-speed internet facilities. Additionally, rural residents must contend with irregular power supplies and outdated technological gadgets, which often obstruct smooth access. Thus, multiple-input multiple-output (MIMO) may be used to augment signal coverage in rural locations while still offering high-speed broadband connectivity.

With the introduction of 5G wireless communications, multiple input multiple output systems are anticipated to play a major role owing to advantages of high date rate, quality, reliability and channel capacity in scattering environment without the need for additional transmitter power. However, the mutual coupling induced between the MIMO elements acts as major disadvantage.

Objectives:

- Modelling, Simulation, Fabrication and Measurement of Planar/Dielectric Resonator Based Antennas on high frequency laminate.
- Designing the antenna with the assistantship of simulation software HFSS and achieve the desired specifications.
- Perform the parametric analysis and formulating the mathematical behaviour for the proposed module.
- Introduction of the additional components to enhance high gain and wide operating bandwidth.
- Design the Multiple-Input-Multiple-Output (MIMO) antennas from the single antenna under the investigation for 5G Applications.
- To obtain better isolation among multiple input multiple output antenna elements and high radiation efficiency.
- Fabrication of Antenna and verified the outcomes experimentally.
- Publish the findings in the journals of reputes (SCI/Scopus) and go for the patent filing of the proposed configuration and possible inclusion for commercialization.

Methodology:

Choice of antenna and its design:

Design specification of a micro-strip antenna and dielectric resonator-based antenna is an important factor which determines the performance of the antenna. However, before the actual prototyping and experimental testing it is necessary to validate the patch antenna performance. Antenna designs can be simulated by means of commercially available HFSS software and other similar tools. The result is readily available for analysis and for experimental investigations.

Prototyping of the antenna design:

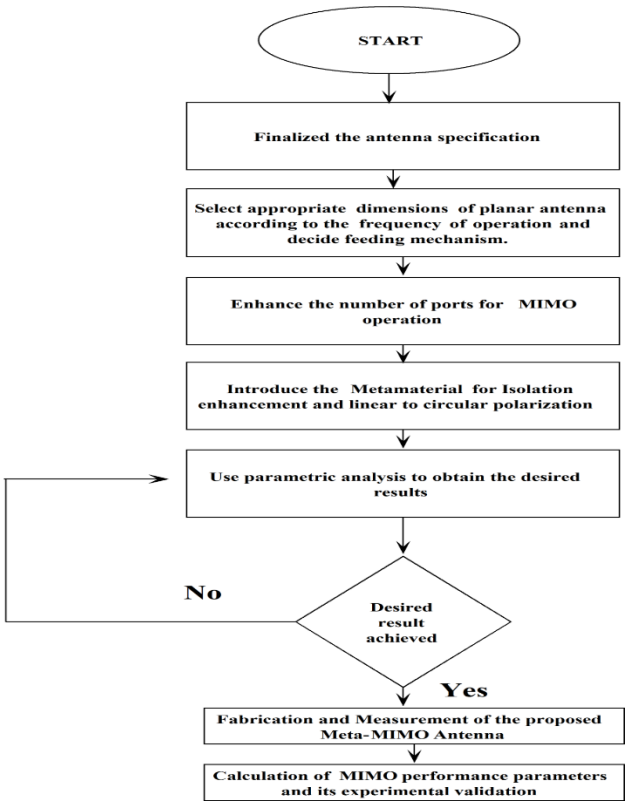
Antenna prototyping is an important stage of antenna design. The off the shelf substrates or specially designed substrates for antenna fabrication can be used for patch designing through a milling/drilling PCB machine or can be made through chemical process of etching the conductor out of PCB.

Testing of the antenna prototypes:

The simulated and fabricated antenna design requires experimental verification. To experimentally test an antenna, a typical measurement system using a Vector Network Analyzer (VNA) and a stationary calibrated horn

with the basic AMS (antenna measurement system) will be used.

Flow chart for MIMO-Metasurface Design.



Results:

This comprehensive section is organized into the following sections: (i) Designing and creating a prototype of an antenna with a specific geometry; (ii) Conducting analysis and investigation on the antenna; (iii) Developing a metasurface design (iv) Presenting and discussing the results of the study.

Conclusion:

This work proposes to design MIMO antenna system with minimal mutual coupling and more significant gain for signal booster device. The simulated results of the fabricated prototype are verified by measurement through vector network analyzer in anechoic chamber. The comparative analysis is also carried out between the proposed configurations and previously reported modules. In the proposed work a metasurface based planar antenna is modelled, analysed and investigated. Here a thin two-dimensional metasurface layer is utilized in the design of antenna. The integration of metasurface layer in the design and simulation of multiple input and multiple output antennas will improve the isolation among multiple antenna elements by suppressing the surface waves. Metasurface layers allow manipulation of electromagnetic waves which helps in enhancing the gain and bandwidth and to achieve circular polarization of the antenna system.

Innovation in the project:

This study examines a compact MIMO antenna with metasurface loading, designed for 5G mm-wave applications for n260 band. The detailed investigation of the different orientation of the MIMO is presented with findings. The suggested metasurface model is behaved like a polarization converter converting the linearly polarized wave into circularly polarized wave as well as gain enhancer. The technical elements and physics behind these discoveries are also included. The diversity parameters, including ECC, DG, MEGs, and CCL are calculated to provide evidence for the MIMO characteristics of the proposed model. The integration of a metasurface into an mm-wave frequency antenna to provide LP to CP conversion with gain enhancement makes the suggested model innovative for n260 band 5G applications.

Scope for future work:

The need for wireless communication has shown a significant and rapid increase in recent years. By the year 2030, it is projected that there will be around 17 billion mobile-connected devices, generating a monthly data flow of thousands of exabytes. Despite the much advancement in the Fifth Generation (5G) communications systems compared to Fourth Generation (4G) systems, they will be unable to meet the increasing demand and the needs of creative use cases. Consequently, Sixth Generation (6G) Networks are anticipated to provide extensive connection and ensure enhanced performance and quality of service for all customers. In order to handle such demands,

several technological challenges must be resolved, such as the use of innovative multiple-antenna technologies. This assessment provides a succinct overview of the primary upcoming Multiple-Input Multiple-Output (MIMO) technologies for 6G Networks, including massive MIMO (mMIMO), exceptionally large MIMO (XL-MIMO), Intelligent Reflecting Surfaces (IRS), and Cell-Free mMIMO (CF-mMIMO). In addition, we provide a detailed analysis of how certain key performance indicators (KPIs) for various innovative 6G Network applications may be achieved via the advancement of each Multiple-Input Multiple-Output (MIMO) technology.

18. A COMPACT AND LOW POWER DIGITAL TO ANALOG CONVERTER FOR HEARING AID APPLICATIONS

Project Reference No.: 47S_BE_4956

College : *The National Institute of Engineering, Mysuru*
Branch : *Electronics and Communication Engineering*
Guide(s) : *Dr. Remya Jayachandran*
Students : *Mr. Pundlik Anant Nayak, Ms. Raksha A R, Ms. Sangeetha A Shayana and Mr. Suhas Shastry H S*

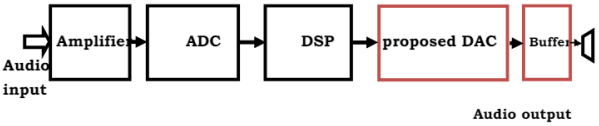
Keywords: Mersister, hearing aid, DAC, low-power, VTEAM

Introduction:

Hearing loss can significantly impede communication, which is essential for human interaction. It has a profound negative impact on various aspects of life, including work, physical and emotional well-being, and relationships. In fact, it is considered the third most common health issue affecting relationships and overall quality of life. Hearing aid devices play a crucial role in addressing hearing impairment by selectively amplifying sound signals to accommodate the unique hearing characteristics of each individual. Despite their benefits, there exists a considerable disparity between the potential and actual users of hearing aids. While digital hearing aids with reconfigurable filter banks have been developed, they often come with a hefty price tag, making them inaccessible to many. In order to provide a more accessible solution, our project aims to design a low-cost low-power hearing aid device that is more affordable.

Objectives:

- Characterization of various memristor models to get the required characteristics for Data converter design.
- Design and implementation of 2-bit DAC and 4-bit DAC using memristor (MatLab and Cadence) and compare the performance metrics- INL, DNL, SFDR, Power, ENOB, etc. reported in the literature.
- Design and implementation of 8-bit DAC using a Memristor array and compare with the performance metrics of the existing 8-bit DAC architecture used in hearing aid applications.
- Characterization of memristor-based 8-bit DAC architecture to improvise the performance metrics suitable for hearing aid devices
- Development of low cost and low power hearing aid device using memristor



Methodology:

Figure 1 depicts the basic block diagram of a hearing aid device. This project focuses on the DAC and the buffer architecture. The proposed design aims to introduce a low-cost, low-power, and compact hearing aid device that is more affordable. As part of this effort, the design includes a digital-to-analog converter utilizing memristors to reduce power consumption within the hearing aid device. This project involves

- Detailed literature survey on the existing low-cost hearing aid devices and their design.
- Detailed literature survey on various memristor models and their characteristics.
- Testing the characteristics of memristor models using Cadence Virtuoso and MatLab to compare with the results in the literature

and fixing the device constants based on the characteristics.

- Implementation of memristor-based 2-bit and 4-bit Digital analog converter (DAC) reported in the literature and compared with the results to validate the methodology
- Design, Implementation and characterization of a novel DAC architecture which is very compact and low power with 8-bit resolution using memristors that matches with the specification required for hearing aid devices.

Figure 1

- Testing the proposed DAC architecture with real-time input signal data.
- Design and implementation of CMOS Buffer amplifier to drive the output peripheral device.
- Testing of the design with hardware circuit.

Conclusions:

Basic hearing aid device with adjustable volume control is designed and implemented using the discrete components to understand the properties of audio signal, the signal swing required at the output to make it audible for the user, power requirement and the challenges.

Figure 2 represents the hardware model of the basic hearing aid system with two amplifier stages flowed by feedback amplifier stage and a power amplifier to drive the headphone of 32 Ohm impedance.

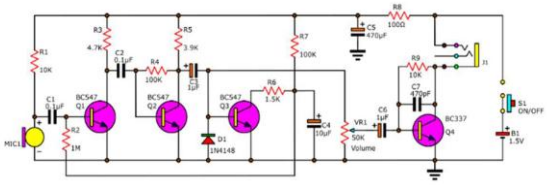


Figure 2

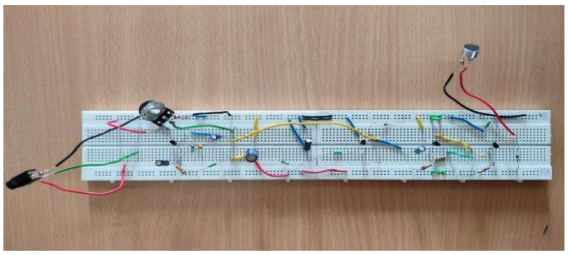


Figure 3

Stage 1:

Basic hearing aid circuit with discrete components to drive 32 Ohm load is implemented and tested in real-time. The circuit is designed for 1.0 V DC power supply, which is able to provide 0.25 Vpp as maximum output swing across 32 Ohm. Figure 4 represents the output signal obtained across 32 Ohm load. The output obtained from the feedback stage is saved in excel sheet using NI ELVIS-III kit and this data is used to verify the designed DAC circuit in Cadence.

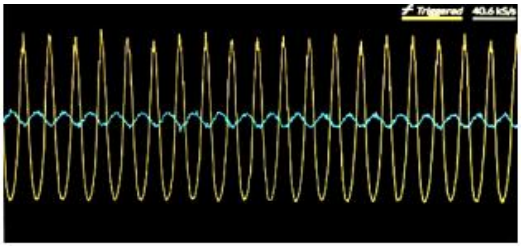


Figure 4

Stage 2

8-bit memristor-based binary weighted DAC is designed and implemented in Cadence Virtuoso tool and is found to have an SNR of 47.93 dB and a resolution of 8 bits at 10 kHz. The proposed DAC is designed using the VTEAM memristor model. Simulations verified that the required on and off resistance to implementing the memristive DAC is 200 Ω and 16 kΩ respectively. The simulation results depict that the proposed DAC consumes a power of 9.89 µW for a digital input voltage 1 V and CL= 1 pF and $R¬L = 100 kΩ and uses 75 memristors that approximately occupy an area of 4800 nm2. An overall area reduction of 40 % is achieved by the 8-bit memristor DAC when compared to the conventional binary-weighted DAC architecture using resistor. As majority of the hearing aid

devices have an output impedance less than 100 Ω. In order to drive a load resistance of less than 100 Ω, there is a need for a class D buffer amplifier with supply 1 V in order to get the desired output with minimum distortion and noise. This Class D buffer amplifier will be integrated along with the memristor based to obtain a complete hearing aid device.

19. UNCOVERING THE INTERNET-BASED MERCHANDISE USING SENTIMENT EVALUATION AND MACHINE LEARNING ALGORITHMS

Project Reference No.: 47S_BE_3585

College : *S.E.A. College of Engineering and Technology, Bengaluru*
Branch : *Information and Science Engineering*
Guide(s) : *Dr. Nijaguna G. S*
Students : *Mr. Mohammed Azmathulla, Mr. Shabaz Pasha, Mr. Brij Bhushan Kumar and Mr. Basavaraj Rajur.*

Keywords: Sentiment analysis (SA), Online retail, computational linguistics, automated learning, advanced learning, sentiment mining, text blob and opinion mining.

Introduction

E-commerce has been created by the rapid development of the Internet and the transformation of people's shopping modes, which has contributed to the emergence of Amazon, eBay and other numerous e-commerce platforms. In the meantime, a growing number product or service on the platform through online comments. The reviews not merely reflect the performance as well as the quality of online goods or services, but also display consumers' shopping experiences in an authentic and comprehensive manner. It turns out, online reviews have been regarded as a valid information source for both consumers and merchants. Especially for certain new and untried products, the reviews offer consumers valuable references for product selection, which is of great significance to reduce purchasing risks. Besides, the reviews help merchants have an appreciation of consumer attitudes, such as motivations, satisfaction, etc., thus developing products that can meet the expectations of consumers. Admittedly, it is crucial for business success to gain insights into product experience and timely grasp consumers' practical demands from the reviews.

Objectives

Based on the aim of the project, we have designed the objectives as:

- Initially reviews data will be collected from the online E-Commerce Platform
- Text processing is applied using Natural Language Processing Techniques
- Split the dataset into Train and test.
- Develop the Machine Learning Models for the classification of the reviews.
- Performance of each model is evaluated separately and comparison study can be given.
- Finally, we have developed a flask web application that provide effective way to online product experience and customers' demands, thereby strongly supporting future product improvement and marketing strategy optimization.

Methodology

Step 1: Dataset

- To begin with, a large number of online review texts are collected from Internet platforms such as Amazon, eBay or any other E-Commerce Platform.
- Afterward, the obtained reviews are standardized into sets of word arrays through text preprocessing to simplify the succeeding procedures of text analysis

Step 2: Data Pre processing

Review texts, as a type of unstructured information, are not allowed to be directly processed and analyzed. We need to apply Text

Processing techniques to balance and structure the data

- Text Processing methods Feature Selection Feature Extraction, Tokenization and Stemming are applied.

Step 3: Model Training and Development

- Split the dataset into Train and test.
- Develop the NLP & Machine Learning Models for the classification of the reviews.

Step 4: Performance Evaluation

- Performance of each model is evaluated separately and comparison study can be given.

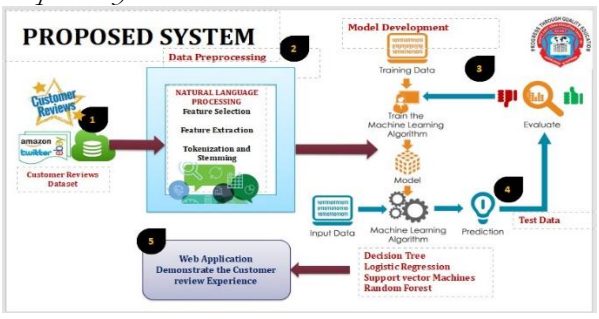
Step 5: Demonstration of Online Product Experience System

- Finally, we provide effective way to

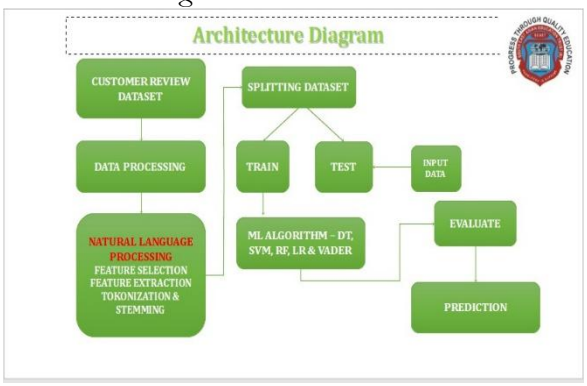


online product experience and track customers' demands, thereby strongly supporting future product improvement and marketing strategy optimization.

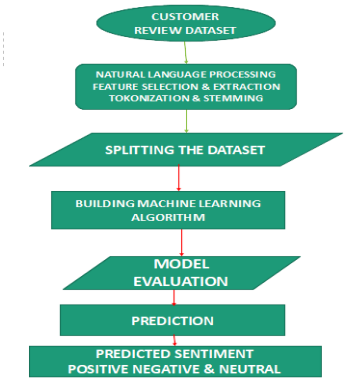
Proposed System



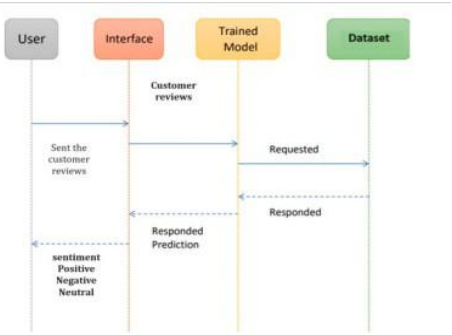
Architecture Diagram



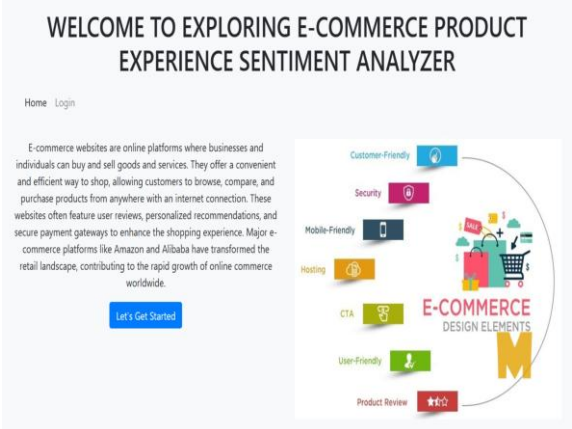
Flow chart



Sequence Diagram



Results and Conclusion:



In your project, a combination of Machine Learning Algorithms including Logistic

Regression, Linear Support Vector Classifier, K-Nearest Neighbor, and Random Forest Classifier was employed for sentiment analysis. To enhance the NLP tasks, the TextBlob Python library was utilized, offering advanced functionalities and superior performance compared to NLTK. Specifically, operations like semantic parsing, noun phrase extraction, sentiment analysis, and spell correction demonstrated improved results when implemented with TextBlob. This integration of machine learning algorithms and Text Blob's features has significantly elevated the accuracy.

20. INNOVATIVE APPROACHES FOR E-WASTE RECYCLING AND RESOURCE RECOVERY WITH REFERENCE TO DAVANGERE CITY (KARNATAKA)

Project Reference No.: 47S_MBA_0158

College : *G.M. Institute of technology, Davanagere.*
Branch : *MBA*
Guide(s) : *Dr. K. Jagadeswari and Mr. Shreeshaila P Vijavapur*
Students : *Ms. Rakshitha M., Mr. Suman M, Mr. Megharaj P. and Mr. Bharatesh A. P*

Keywords: Waste Management Strategies, Disposal Patterns, Sustainable Practices, Innovative Initiatives, Collection Mechanisms, E-Waste sculptures, Environmental Sustainability.

Introduction

In Davangere state of Karnataka, the rapid accumulation of E-Waste is a pressing concern, challenging the city's commitment to environmental sustainability. This study is dedicated to uncovering innovative E-Waste recycling and resource recovery methods that resonate with the city's specific conditions. Amidst a global uptick in E-Waste, propelled by swift technological turnover, Davangere finds itself at a crucial juncture, where effective waste management strategies are vital for maintaining ecological integrity and economic health. This research will conduct an in-depth analysis of Davangere's E-Waste generation, disposal patterns, and regulatory frameworks to build a holistic view of the issue at hand. It will also engage in stakeholder mapping to understand the dynamics within the E-Waste management network. A key aspect of the study is fostering community engagement and education to raise consciousness about the repercussions of improper E-Waste handling. Innovative recycling initiatives, such as interactive exhibits and specialized collection mechanisms, are explored as potential solutions to Davangere's unique E-Waste challenges. The study's ultimate ambition is to enhance the city's E-Waste practices, advocating for eco-friendly recovery and the safe processing of hazardous materials, thus steering Davangere towards a more sustainable and resilient future.

Objectives:

- The primary objective of this project is to conduct a comprehensive assessment of the current E-Waste phenomenon in Davangere city.
- Another crucial aim is to identify and analyze the key stakeholders involved in the E-Waste management ecosystem within the locality.
- To develop effective strategies aimed at community engagement and education regarding the proper disposal and management of E-Waste.
- Lastly, the project endeavors to propose innovative recycling techniques specifically tailored to address the challenges of E-Waste management in Davangere city

Methodology:

Stage 1: literature review:

Establish foundational understanding of E-Waste management, recycling techniques, stakeholder engagement, and community education

Stage 2: Data sampling methods:

To implement Stratified Random Sampling for E-Waste, categorize by waste type, sectoral volume, and location. Randomly select samples from each category to represent the city's E-Waste profile. This approach ensures a comprehensive analysis of the E-Waste management system.

Stage 3: Data collection: Primary data collection:

Field surveys, interviews, and questionnaires from diverse stakeholders in Davangere city, including residents, businesses, government entities, and recycling facilities.

Stage 4: Data analysis techniques for individual objectives:

• *Extent of E-Waste:*

Statistical Tools: Descriptive statistics

Method: Calculate percentages, means, and other descriptive measures to summarize and analyse.

• *Factors Influencing Adoption:*

Statistical Tools: Regression analysis Method: Use regression analysis to assess the relationship between independent variables (factors influencing adoption) and the dependent variable (adoption decision)

• *Health and Wellbeing Impacts:*

Statistical Tools: T-tests, ANOVA Method: For assessing the health and wellbeing impacts of E-Waste, statistical tools such as T-tests and ANOVA can be applied. These tests will enable the comparison of health indicators between different groups exposed to E-Waste, helping to evaluate the potential health effects linked to E-Waste exposure.

Innovative recycling techniques:

Research and evaluate suitable methods for Davangere's E-Waste profile through collaboration with experts and leveraging existing initiatives

Results:

- In Davangere, the community is well-informed about E-Waste recycling, with a strong consensus on the shared responsibility of government, manufacturers, and consumers. While information is predominantly sourced online and from local authorities, there's a readiness to support E-Waste management initiatives, albeit actual participation is conditional on convenience.
- A sustainable mindset is evident, with 61% of the community engaging in the reuse of electronics and creative upcycling, particularly of electronic components into decorative items. This reuse culture is balanced by a 53% disposal rate when devices cease functioning. Despite a moderate awareness level, there's a unanimous call for action in E-Waste management and a recognition of its importance for environmental conservation.
- The community's high engagement and active participation in E-Waste management activities, coupled with a strong online presence for upcycling ideas, demonstrate a commitment to environmental stewardship and sustainable practices.

Conclusion:

The community in Davangere showcases a proactive and responsible approach to E-Waste management, balancing convenience with environmental stewardship. Their sustainable practices, characterized by significant reuse and upcycling. Although participation is influenced by convenience and awareness levels are moderate, the unanimous call for action and the strong online presence for upcycling ideas highlight the community's dedication to environmental conservation.

- Develop a digital platform to track and analyze E-Waste data, providing insights into waste volume, types, and recycling rates. This can help in identifying trends and areas for improvement.
- Implement mobile E-Waste collection units that can travel to different neighbourhoods, making it convenient for residents to dispose of their electronics responsibly.
- Organize community workshops focused on repairing and refurbishing old electronics, which can extend their lifespan and reduce waste.
- Set up facilities equipped with advanced technology to safely extract valuable materials from E-Waste, ensuring their reuse in manufacturing new products.
- Collaborate with tech companies to create take-back schemes where consumers can return end-of-life electronics for proper recycling or refurbishment.
- Launch comprehensive educational campaigns using social media, local events, and school programs to raise awareness about the importance of E-Waste recycling.
- Introduce incentive-based programs that reward individuals and businesses for proper E-Waste disposal, encouraging participation in recycling efforts.

- Host competitions for designing products with a focus on sustainability, encouraging innovation in reducing E-Waste through design.
- Work with local authorities to advocate for stronger E-Waste management policies and regulations that support recycling and proper disposal.
- Organize technology fairs showcasing eco-friendly electronics and innovations in E-Waste management, promoting a culture of sustainability.
- Exhibit E waste sculptures and art installations in public places.

21. ORGANIC PAPER BAG: WITH PLANTABLE PAPER BAGS

Project Reference No.: 47S_MBA_0032

College : *Kalpataru Institute of Technology, Tiptur*
Branch : *MBA*
Guide(s) : *Mrs. Sujatha N. Sheeri*
Students : *Ms. S. Madhura, Ms. Yashaswini H. J., Mr. Jeevan G. L. And Mr. Kiran M. C.*

Keywords: Germination, Biodiversity, Herbs, Paper Bags, Materials, Seed, Marketing

Introduction

The traditional paper bag originates from the use of trees as a primary raw material in its production process. Typically, paper bags are made from wood pulp derived from trees such as spruce, pine, fir, or hemlock. The process begins with harvesting these trees, which are then debarked and chipped into small pieces. These wood chips are then processed through a mechanical or chemical pulping method to separate the cellulose fibers from lignin and other components. The resulting pulp is refined, bleached, and mixed with water to create slurry, which is then formed into thin sheets and dried to produce paper. This paper can then be further processed into bags by cutting, folding, and gluing. The use of trees as a raw material underscores the sustainability challenges and environmental considerations associated with paper bag production, driving efforts towards sustainable forestry practices and recycling initiatives to minimize the impact on forest ecosystems.

Plantable seed paper is a unique type of paper that is embedded with a variety of seeds. Once the paper has fulfilled its initial purpose, it can be planted in the soil to grow into plants, making it a sustainable and eco-friendly option. This innovative paper can be utilized for a range of purposes such as business cards, bookmarks, drink coasters, invitations, birthday cards, and holiday cards. By reusing and replanting plantable paper instead of disposing of it, not only can you contribute to a cleaner environment, but you can also offer a thoughtful and meaningful gift to a friend or family member. There are so many raw materials from which the organic paper bags can be prepared basil, carrot, tomato, mustard are few seeds. The fibres in which seeds can be embedded to make bags are cotton, lien, flax, mulberry, and banana and elephant poo.

One example of seeds commonly embedded in plantable paper is BASIL seeds. These seeds are small and black in appearance, with a mild and nutty flavour. They are frequently used in Indian cuisine and can also be soaked in water and added to smoothies or yogurt, such as in the popular drink faloodas.

Objectives:

- Our primary goal is to utilize seeds, agricultural byproducts, flowers, and recycled paper to develop a biodegradable and sustainable alternative to traditional paper bags.
- By incorporating organic waste into our production process, we aim to minimize the amount of waste that accumulates in landfills and mitigate the environmental consequences of waste disposal.
- Our ultimate objective is to diminish our dependence on non-renewable resources and lower the carbon footprint associated with bag production.
- The objectives of using plantable seed paper bags are to promote sustainability, reduce waste, and provide a unique and eco-friendly packaging solution.
- By choosing to use these bags, businesses can showcase their commitment to sustainability and inspire others to follow suit. The versatility of plantable seed paper bags allows for a personalized touch, as each bag has the potential to grow into

something beautiful and beneficial for the environment.

Methodology
Approach:

- Collection and processing of organic waste, such as agricultural by products, food waste, and other organic matter, is collected and processed to remove any contaminants and prepare it for use as raw
- Conversion of organic waste into a usable form: The processed organic waste is then converted into a usable form, such as cellulose based material or a biodegradable plastic, through processes such materials.as composting, anaerobic digestion, or chemical treatment.
- Fabrication of bags: The usable form of the organic waste is then used to fabricate bags through processes such as molding, extrusion or weaving.
- Quality control: The bags are then inspected and tested to ensure that they meet quality standards and are fit for their intended purpose.
- Final product: The finished bags made from organic waste are then packaged and ready for distribution and sale

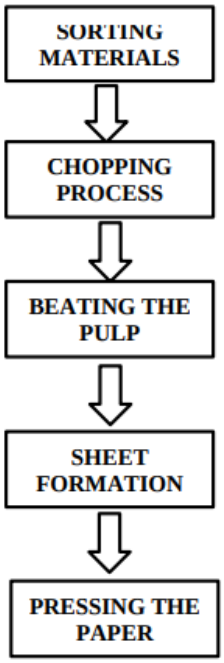
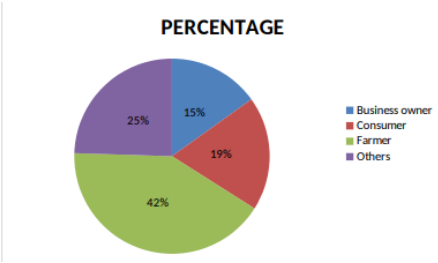


Figure 1: flowchart of manufacturing process

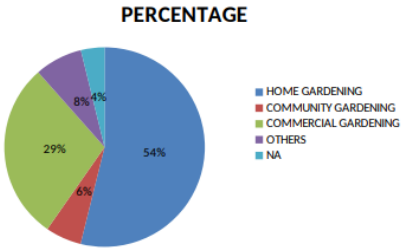
Data Collection:

The Methodology is a comprehensive research approach that focuses on analyzing and synthesizing data to provide valuable insights and strategic recommendations for businesses. This methodology involves using a combination of qualitative and quantitative research techniques, such as interviews, surveys, and data analysis, to gain a deep understanding of the market landscape, customer preferences, and competitive dynamics.

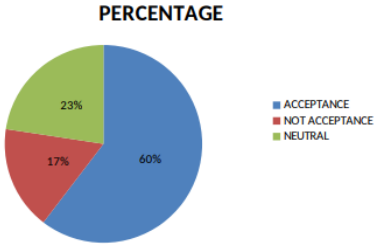
Result



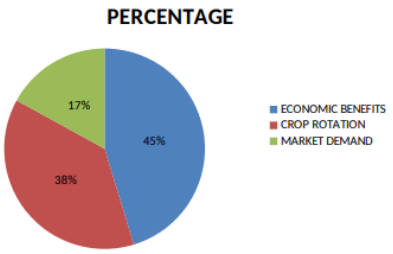
The illustration above depicts how different sectors are being encouraged to use paper bags with organic plantable seeds.



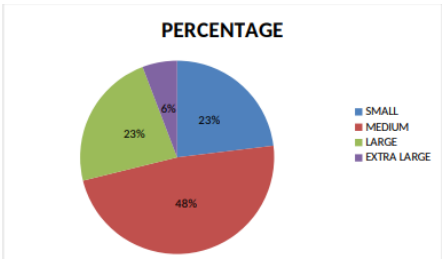
The accompanying illustration illustrates the diverse ways in which consumers are cultivating their plants.



This graphic illustrates how using herbs like basil seeds can diversify a crop portfolio. It demonstrates their commitment to and interest in growing commercial crops.



The picture above illustrates several possible advantages of growing basil seeds. If individuals were to cultivate these kinds of seeds, they would profit in this way.



The aforementioned numbers illustrate the sizes of paper bags required by consumers for plantable seeds.

Conclusions

In conclusion, the concept of organic paper bags embedded with plantable seeds presents a promising innovation in sustainable packaging. By integrating seeds into biodegradable paper, these bags not only serve their primary function of carrying items but also contribute to environmental conservation by encouraging green practices such as recycling and planting. This initiative promotes biodiversity and supports the ecosystem, aligning with global efforts towards reducing plastic waste and fostering a greener planet. As consumer demand for eco-friendly products continues to rise, the implementation of plantable seed paper bags represents a viable step towards a more sustainable future.

22. BIODIESEL FROM WASTE COOKING OIL AND ITS CHARACTERIZATION WITH NANOMATERIALS: ECO FRIENDLY SYNTHESIS AND EXPERIMENTAL INVESTIGATION FOR PERFORMANCE AND EXHAUST EMISSIONS

Project Reference No.: 47S_BE_2299

College : *SECAB Institute of Engineering and Technology, Vijayapura*
Branch : *Mechanical Engineering*
Guide(s) : *Dr. Syed Abbas Ali and Mr. Altaf Hussain Bagawan*
Students : *Mr. Abdul Kareem, Mr. Irshad Ahmad and Mr. Khan Anas Javed*

Keywords: Waste Cooking Oil, Biodiesel, Nanomaterials, Performance, Exhaust Emissions.

Introduction:

Fossil fuels have historically been the primary source of energy, playing a significant role in human development and advancements, particularly after the Industrial Revolution. However, due to their widespread and relatively unrestrained use, fossil fuel emissions have increased, causing global warming and climate change to occur far more quickly than predicted. Humanity is facing these challenges and is looking toward various renewable energy sources (RES) for power generation, internal combustion engines, mobility and transport, and other sectors. Additionally, there is a search for alternate fuels to reduce dependency on fossil fuels, to meet increasing demands, and to help reduce the emissions causing climate change.

Biodiesel is a renewable and environment-friendly alternative fuel prepared using animal fat, vegetable oil, waste cooking oil, microalgae, and energy plants such as Jatropha curcas and sugar cane. It has high biodegradability and low toxicity, and it also has lower combustion exhaust emissions in terms of carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), unburnt hydrocarbons, particulate matter, and smoke due to better combustion of the fuel, which helps in better engine performance. One of the major aspects is its nature of being a drop-in biofuel, meaning no modification is needed in the existing engine design and distribution infrastructure for up to a 20% blend of biodiesel in diesel, i.e. for B20 fuels.

The 28th Conference of the Parties to the UN Framework Convention on Climate Change took place in Dubai, United Arab Emirates, from

30 November to 13 December 2023. For the first time, countries agreed to "transition away from fossil fuels in energy systems." Governments and industries globally are investing in research and development to accelerate the integration of renewable fuels, fostering a more sustainable and resilient energy landscape for future generations. Repurpose Used Cooking Oil (RUCO), an initiative launched by the Food Safety and Standards Authority of India (FSSAI), aims to create an ecosystem that will enable the collection and conversion of used cooking oil or waste cooking oil (WCO) to biodiesel. The WCO is also not healthy for human consumption as it causes various heart diseases.

Disposing of fat, oil and grease causes major problems with drains and sewers, leading to blockages and polluting streams and rivers. While fat, oil, and grease in liquid form may not seem harmful, they solidify and harden as they cool. This results in them adhering to the inner lining of drainage pipes, restricting wastewater flow and causing blockages. Cleaning these blockages can incur significant costs, reaching lakhs of rupees per year for both businesses and the government.

Objectives:

- To produce low-cost biodiesel from waste cooking oil by the process of transesterification.
- To do cost-effective and eco-friendly synthesis of the nanomaterials using the hydrothermal method.
- To prepare the blend of diesel and biodiesel and further characterization with nanomaterials for experimental analysis.
- To evaluate the properties of the biodiesel blends being produced for comparative analysis.
- To do the sets of experiments to analyze the impact of nanomaterials on the performance and exhaust emissions using the Four Stroke Diesel Engine Test Rig and Emission Analyzer.
- To provide the comparative analysis among the blends produced suggesting the optimum blend of nanomaterials in WCO Biodiesel for improved performance and reduced exhaust emissions.
- To identify the opportunities, challenges and limitations within the Biodiesel from Waste
- Cooking Oil guiding future research and development efforts.



Methodology

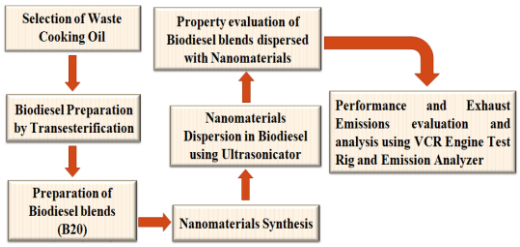


Figure 1: Overview of Methodology

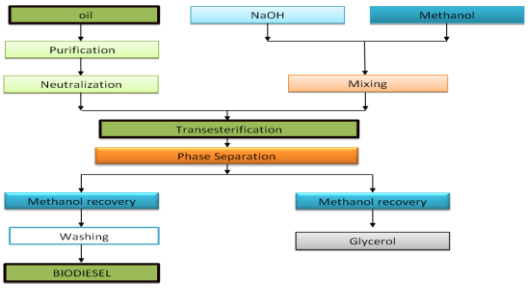


Figure 2: Transesterification Process

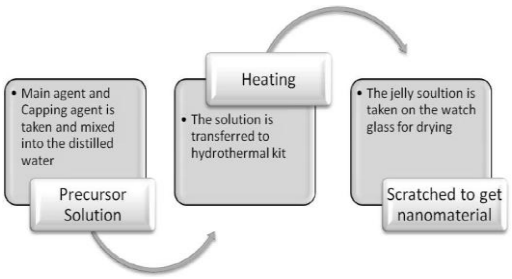


Figure 3: Hydrothermal Synthesis of Nanomaterials

Experimentation

The experimentation was carried out on a four-stroke diesel engine test rig as shown in Figure 4.

Figure 4: Four Stroke Diesel Engine Test rig and Emission Analyzer

Table 1: Biodiesel blends details

Sl. No.	Blends	Description
1.	Diesel	[100% of Diesel]
2.	B20	[20% of Biodiesel, 80% of Diesel]
3.	B20C30	[20% of Biodiesel, 80% of Diesel, 30ppm Calcium Oxide]
4.	B20M30	[20% of Biodiesel, 80% of Diesel, 30ppm Magnesium Oxide]

Results:

Performance and Emission Analysis

Brake thermal efficiency provides information about how the fuel energy is turned into engine output.

Specific fuel consumption (SFC) is a measure of the efficiency with which an engine converts fuel into power or the amount of fuel per unit of power production.

Unburnt hydrocarbons (UHC) refer to the fuel molecules that do not undergo complete combustion in an internal combustion engine or any other combustion process. Instead of being fully oxidized to carbon dioxide (CO_2) and water (H_2O), these hydrocarbons are released as emissions in their original or partially oxidized forms. Unburnt hydrocarbons are significant contributors to air pollution and have various environmental and health impacts.

Carbon monoxide (CO) is a colourless, odourless, and tasteless gas that is highly toxic to humans and animals. It is produced by the incomplete combustion of carbon-containing fuels.

NOx refers to a group of nitrogen oxide gases that are significant pollutants produced primarily through combustion processes.

Conclusions:

In this project, the comparative analysis of the performance and emissions of CI engine running with diesel, WCO biodiesel (B20) mixed with Calcium Oxide and Magnesium Oxide nanomaterials of 30 ppm dosage has been done, the following conclusions are drawn from the present experimentation is as given below:

- The BTE is improved by adding nanomaterials, which increase from 24.2% to 25.95% and 26.02% for Calcium Oxide (B20C30) and Magnesium Oxide (B20M30) respectively. The SFC decreased by increasing the addition of nanomaterials which decreased from 0.25 Kg/kWh to 0.22 Kg/kWh, 0.21 Kg/KWh, Calcium Oxide (B20C30) and Magnesium nitrate (B20M30) respectively.
- The reduction in CO and unburnt Hydrocarbons is observed for increasing the nanomaterials. It reduces from 0.06% to 0.0595% and 0.0589% for Calcium Oxide (B20C30) and Magnesium Oxide (B20M30), respectively. The Unburnt Hydrocarbon reduces from 75 ppm to 67 ppm and 66 ppm for Calcium Oxide (B20C30) and Magnesium Oxide (B20M30) respectively.
- The Nitrous Oxides (NO_x) for Diesel, Calcium oxide (B20C30) and Magnesium oxide (B20M30) are 970 ppm, 1020 ppm and 989 ppm respectively.

In a nutshell, it is noticed from the experimental test results that the improvement in performance emission characteristics of the CI engine is due to the addition of Cerium Oxide and Magnesium Oxide nanomaterials of 30 ppm dosages of 20% WCO nanoparticles compared to diesel. It can be concluded that the addition of nanomaterials improves the performance and emissions of CI engines.

23. NEUROMIST REVIVE: MOIST HEAT THERAPY FOR SPINAL RECOVERY AND BACKACHE RELIEF

Project Reference No.: 47S_BE_2083

College : Dayananda Sagar College of Engineering, Bengaluru
Branch : Medical Electronics
Guide(s) : Prof. Nanditha Krishna
Students : Ms. Nisarga V. and Ms. Laxmi

Keywords: Back discomfort, Vibration treatment, Heat therapy, Electrical Stimulation, Microcontroller, Think speak IOT

Introduction:

Back pain is a common and severe health issue affecting millions worldwide, significantly impacting quality of life, productivity, and overall well-being. This complex condition arises from various causes, including poor posture, muscle strain, and severe spinal disorders. Studies show that approximately 80% of people will experience

back pain at some point, highlighting the urgent need for effective solutions. The human spine provides support, facilitates movement, and protects the spinal cord. Disruptions in the spinal structure can cause pain, discomfort, and mobility issues, emphasizing the importance of prompt and effective treatment. Traditional back pain management approaches, such as medication, physical therapy, and surgery, may not always offer long-term relief or address underlying causes. This limitation has spurred interest in alternative therapeutic strategies that target both symptoms and root causes holistically. Non-pharmacological and non-invasive therapies like vibration therapy, heat therapy, and electric stimulation have gained recognition for their effectiveness in pain relief, improving spinal mobility, and promoting tissue healing. These therapies offer a comprehensive approach to spinal health, catering to individuals with varying degrees of back pain and spinal issues. Recognizing the potential of integrating these modalities into a cohesive system, this project aims to innovate back pain management and spinal recovery. By combining vibration therapy, heat therapy, and electric stimulation into a user-friendly product, the project seeks to enhance quality of life, improve spinal health, and promote overall well-being for those suffering from back pain. This integrative approach represents a significant advancement in providing personalized and effective therapeutic solutions.

Objectives:

The project aims to create a product that synergizes moist heat therapy with electronic stimulation, delivering a holistic solution for spinal recovery and lower back pain relief. By integrating these therapies, the product will provide effective, targeted moist heat treatment to aid in spinal recovery. Utilizing innovative technology, the device will offer significant relief from backaches, addressing the root causes of discomfort. The focus is on improving overall well-being by alleviating spinal pain and enhancing user comfort. This project aspires to set new standards in pain management convenience, ensuring ease of use and maximizing therapeutic benefits for users. Through this advanced approach, the product will support comprehensive spinal health and promote a better quality of life for individuals suffering from back pain.

Methodology:

Materials: The smart therapeutic belt consists of three main components: hardware, software, and connectivity. The hardware component encompasses the electronic elements integrated into the belt, such as the battery bank, temperature sensor, microcontroller, IoT module (ESP8266), actuators (relays, vibration motor, heating element), and user interface (mode switches, LCD display). The software component includes the embedded firmware programmed onto the microcontroller and IoT module to control the therapeutic modalities, process data, and facilitate user interaction. The connectivity component enables remote monitoring and data transmission via the Thing Speak IoT platform, allowing users to monitor and adjust therapy parameters from anywhere using a mobile device.

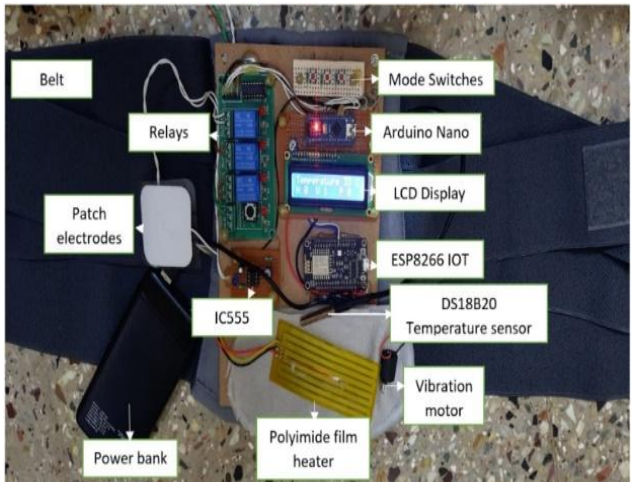


Figure 1: Hardware setup of the project

Methods: The block diagram showcases a sophisticated system governed by an Arduino Nano microcontroller, serving as the central processing unit orchestrating various functions. The DS18B20 Temperature Sensor interfaces with the Arduino to provide real-time temperature data, enabling precise control over the system's thermal aspects. A Mode Switch is incorporated to facilitate seamless transitions between different operational modes, enhancing user flexibility and customization.

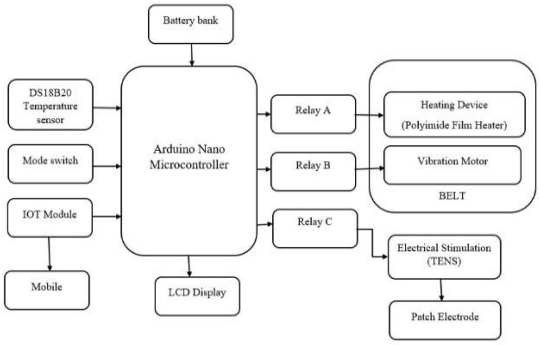


Figure 2: Block diagram of the proposed model

The inclusion of an IoT Module signifies the system's capability for internet connectivity, potentially allowing for remote monitoring and control, expanding its utility beyond local interactions. The representation of a Mobile device hints at the possibility of managing the system through a mobile application, offering convenience and accessibility to users on the go. An LCD Display serves as a visual output interface, presenting vital information and system status in a user-friendly manner. The presence of multiple relays (Relay A, Relay B, Relay C) highlights the system's ability to control various external devices autonomously. Relay A governs the Heating Device, likely a Polyvinyl Film Heater, enabling precise temperature regulation for specific applications. Relay B controls the Vibration Motor, suggesting the system's capability to deliver vibration-based functionalities for tactile feedback or sensory stimulation. Relay C manages the Electrical Stimulation, potentially utilizing Transcutaneous Electrical Nerve Stimulation (TENS) technology in conjunction with a Patch Electrode for therapeutic or wellness purposes.

The integration of a Battery Bank as the power source underscores the system's portability and independence from conventional power outlets, enhancing its versatility for diverse use cases. Overall, the block diagram portrays a comprehensive and intricate system design that combines sensor input, control logic, connectivity features, and output mechanisms to deliver a multifunctional and user-centric experience.

Results and Conclusions:

The prototype demonstrated effective pain relief for individuals suffering from lower back pain through its innovative design, integrating an Arduino Nano microcontroller and an LCD display. It features three distinct modes: heating, vibration, and electric stimulation, each adjustable to suit individual needs. Users can select from three intensity levels for heating, four levels for vibration, and targeted electrical stimulation using patch electrodes. The inclusion of relays ensures precise control and seamless transitions between modes.

The integration with the ThingSpeak IoT platform, enabled by the ESP8266 module, allows for real-time monitoring and remote adjustment of therapy parameters, enhancing user convenience and informed decision-making. The customizable therapy sessions, with a minimum duration of 10 minutes, provide tailored pain relief, leading to optimal outcomes and user satisfaction.

Following the therapy session, the participant was asked to fill out a feedback form, as shown in above feedback form. The subject gave a positive reaction, indicating that they were happy with the therapy. This input suggests a positive response from the patient to the therapy, which may result in the intended effects, such as reduced pain, increased blood flow, or increased comfort levels.

The IoT connectivity and user-friendly design of the prototype facilitated effective pain management, making it a promising solution for personalized back pain therapy. The comprehensive approach of combining hardware and IoT capabilities represents a substantial advancement in customized pain management treatments.

24. DESIGN AND DEVELOPMENT OF SUSTAINABLE PLANT BASED CELLULOSE FILTERS FOR WASTEWATER PURIFICATION

Project Reference No.: 47S_MSC_0125

College : *Garden City University, Bengaluru*
Branch : *Microbiology*
Guide(s) : *Dr. Prema Kulkarni and Dr. Sheeja M. S.*
Students : *Mr. Ayanava Goswami, Mr. Ashutosh Kumar and Mr. Tanmay Prashant Gadankush*

Keywords: Water Remediation; Heavy Metals; Cellulose based filters; Bioremediation; Sustainable water treatment methods. Eichhornia crassipes.

Introduction:

Water pollution poses a significant global challenge, with half of the world's population expected to face water-stressed demand by 2025. Lack of access to clean drinking water affects 785 million people worldwide. Various pollutants, including toxic gases like sulfur oxides, contaminate water sources, while sea and ocean waters are tainted with heavy metals, microplastics, and organic molecules. Governments, organizations, and communities invest heavily in water treatment infrastructure to ensure clean water access, particularly in developing regions. Sustainable water treatment methods prioritize resource efficiency and environmental impact reduction, utilizing natural and eco-friendly techniques. Eichhornia crassipes, or water hyacinth, offers promise for bioremediation due to its pollutant-absorbing properties, especially in managing nutrients and heavy metals. Harvesting and processing water hyacinth into cellulose-based filters or pellets provide innovative solutions for water remediation. Integration of water hyacinth-derived cellulose in ex-situ treatment systems enhances efficiency, offering a holistic approach to addressing water pollution challenges.

Objectives:

- Collection of Plant Sample (Water hyacinth)
- Extraction of cellulose by chemical method
- Extraction of cellulose fibres using water hyacinth stem
- Removal of residual components with ethanol
- Bleaching to remove natural colour
- Preparation of Filter

Methodology:

The process of extracting cellulose from water hyacinth involves harvesting the plant and separating its components, followed by chemical treatment to remove debris and microbes. The plant material is dried, ground into powder, and chemically treated with Sodium Hydroxide, Sodium Hypochlorite, and Hydrogen Peroxide to bleach the cellulose. Phosphorylation enhances its properties for heavy metal binding. Cellulose fibres are obtained by drying the plant, soaking it in Hydrogen Peroxide, and boiling to separate fibres from the stem's fleshy part, maintaining flexibility. Filter paper preparation involves mixing phosphorylated cellulose with water to create a slurry, adding natural resin for stability, pressing the slurry between layers of cloth on a sieve, and drying to obtain the filter paper. This meticulous process ensures the production of effective and sustainable filter paper from water hyacinth, offering a biodegradable solution for water remediation and pollution control.

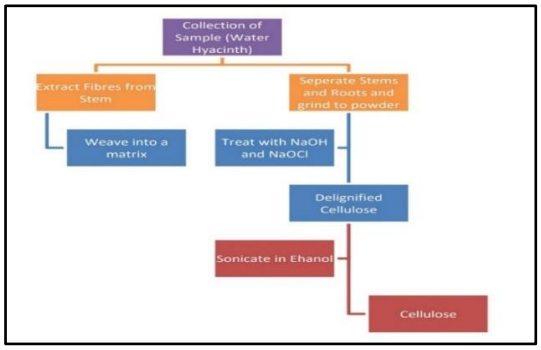


Figure 1: Extraction of cellulose and Fibres from Water Hyacinth

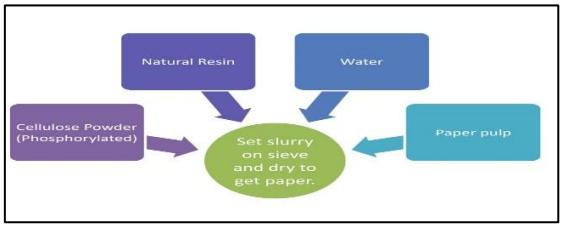


Figure 2: Production of Filter Paper

Result and Conclusion

The project focuses on developing sustainable plant-based cellulose filters to purify wastewater, thereby improving water quality by eliminating contaminants and pollutants. By utilizing plant-based materials, the project contributes to environmental sustainability, reducing reliance on synthetic materials and minimizing ecological footprints in wastewater treatment. The implementation of cellulose filters offers a cost-effective solution for wastewater purification, potentially lowering operational costs while maintaining high efficiency. Resource conservation is promoted using renewable materials, reducing waste generation, and contributing to the circular economy in wastewater management. Purified water from cellulose filters enhances public health by minimizing harmful contaminants, ensuring safer water for drinking, agriculture, and industrial processes. The project's outcomes positively impact communities by providing access to cleaner water resources, enhancing overall well-being, supporting sustainable development, and building resilience against water-related challenges.

25. AGGLOMERATION OF MANAGANESE FINES FOR EFFECTIVE UTILIZATION IN FERRO ALLOY MANUFATURING

Project Reference No.: 47S_MTech_0134

College : Vijayanagara Sri Krishnadevarya University, Ballari
Branch : Mineral Processing
Guide(s) : Prof. P. Sharath Kumar
Students : Mr. K.Surya Koushik, Ms.Ashalatha P. and Mr.Shrishaila T.

Keywords: Agglomeration, Briquetting, Binder, Manganese fines.

Introduction:

The use of briquetting technology in the recycling of industrial wastes, particularly in the production of ferroalloys, has been explored in several studies (Babanin, 2006; Diaz, 2021; Jesus, 2021; Singh, 2011). This technology has been found to be effective in agglomerating fine-grained materials, such as ferromanganese, ferrotitanium, and ferrosilicon, and in the production of manganese-rich co-products. The resulting briquettes have been shown to have better performance in the pre-reduction zone of submerged arc furnaces, with higher CO reactivity and compressive strength. Furthermore, the use of these briquettes in steel making processes has been found to lead to faster dissolution and improved manganese recovery, resulting in significant cost savings. The briquetting of manganese fines for ferro alloy production has been explored in several studies. Bizhanov (2014) and Babanin (2006) both highlight the potential of briquettes as a charge component, with Bizhanov specifically noting the economic benefits and improved technical parameters. Diaz (2021) further, demonstrating the stability and performance of briquette recycling in a pilot-scale Submerged Arc Furnace. Araujo (2006) expands on the potential of using ferro-alloy fines, including manganese, in electrolytic manganese production, emphasizing the environmental and process advantages. These studies collectively underscore the potential of briquetting manganese fines for ferro alloy production, both in terms of economic and environmental benefits. The prime goal of this study is to produce manganese fines briquettes not only to decrees the dependency of lump ores also to utilize the unused stocks. The study also aims to provide sustainable solution by promoting efficient resource utilization.

Objectives:

The study aims to turn manganese fines into briquettes. Currently, manganese fines are unused by the ferro alloy manufacturers because of their fine sizes, a quality agglomerations technique with strong binder will help to solve the challenges. The study also aims to investigate the binder dosage, optimization of curing time based on the final briquette strength. The study involves the Measure of Mechanical strength of briquettes at different interval of time.

Methodology:

Materials: The samples were collected as per the scheme mentioned above from Chinna Budina Gundi (CBG) manganese mine, Swamimalai block, Kumaraswamy range of SMIORE. This is one of the best exposed sections of the area. The ore bands are either massive bodies or strata bound replacement type, separated by barren patches. The average grade is 20% Mn, 24% Fe and 2% SiO2. The Mn content varies from 20% to 22%. Fig 1 shows the manganese ore mine and collection of samples. For briquetting ground mass of lime and industry grade molasses and organic binder supplied by kimberlite chemicals have been used as a binding agent.



Figure 1: Collection of Samples from mine stocks

Methods: Roll Press Two batches were produced with the roll press briquetting machine. The test batches made in the roll press were made by using Lime +Molasses and using Polymeric Binder supplied by (kimberlite chemicals, India). These briquettes were made for drop test and

compression test application, and briquettes produced by using binder is measured for its compression strength after heat treatment. The test parameters of the machine during briquetting is Feed Screw Torque 5.3 [Nm] Feed Screw Speed 38.2 [RPM] Roll Torque 125 [Nm] Roll Speed 2.8 [RPM] Agitator Torque 1.3 [Nm] Agitator speed 8.6 [RPM] Roll Gap 0.7 [mm] Roll Force 28.5 [kN]. The manganese briquettes were produced following the flowsheet in Figure 2. It started with mixing of raw material manganese dust, then a binder was introduced to the mix and evenly distributed. The powder-binder mixture was then immediately transported to the briquetting equipment and green bodies were produced. Two types of briquetting methods were tested: Uniaxial pressing and Roll pressing. These green briquettes were then moved to storage and tested for given time intervals after production. The Compression Test The force needed to create a crack propagating through the surface of the briquette, in [N], was noted as the maximum compression strength of the briquettes. This test was set to stop when the force applied to a briquette dropped by 25% of the maximum measured force during a run. The compression machine held a constant speed of 2mm/min during the run. The machine used for compression testing was universal Testing machine (UTM, FIE, India).

Cold Briquettes: Initially, manganese fines with a moisture content of 3% were mixed with lime and molasses, serving as additives and binders respectively. Various proportions of lime and molasses were tested to optimize the binding efficiency. Then the mixture was fed into a cold briquetting machine, where it was compacted into briquettes under high pressure. Subsequently, the formed briquettes underwent a natural drying process for 72 hours. During this period, the strength of the briquettes was monitored and the maximum strength retained by each briquette was recorded. This allowed for the assessment of the effectiveness of different proportions of additives and binders in producing durable manganese fines briquettes through the cold briquetting process.

Hot Briquettes: In the hot briquetting process, manganese fines were prepared and formed into briquettes using a different approach. Initially, manganese fines with a slightly higher moisture content of 5% were mixed with an organic binder. Subsequently, the mixture fed to a briquetting machine, where it was compacted into briquettes under high pressure, for ensuring better binding and densification compared to the cold briquetting process the briquettes were preheated at 120 degrees Celsius for 20 minutes to facilitate better binding and compaction. Followed by heating, the strength of the hot briquettes was measured and recorded. Variations in the organic binder were tested to determine the most effective binder for producing high-quality manganese fines briquettes through the hot briquetting process.

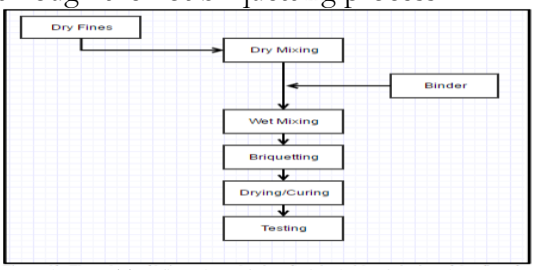


Figure 2: Test flowsheet for production of Mn Briquettes

Result and Conclusion:

The cold briquettes produced by the use of Lime and molasses, have been tested for compression test. The results of compression test for 1, 48 and 72 Hrs of curing time of green briquettes with binder composition; 1 to 6 wt% limestone and 3 to 7 wt% molasses, are shown in Figure 3. It shows a slight decrease in strength is observed when increase in Molassses content in the briquettes, from the first to the third day of storage of briquettes made form 3%molasses and 6% Lime shows the optimum compression strength of 390 N and 1324N respectively. The standard deviation is approximately the same for the two storage times.

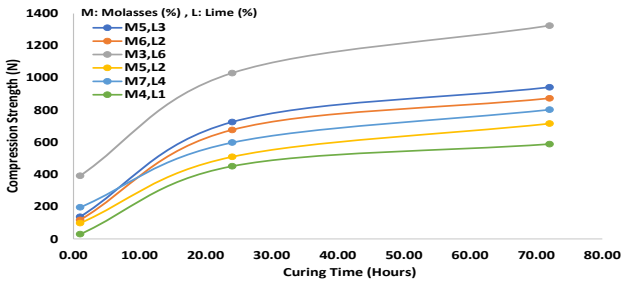


Figure 3: Results of Compression test of a cold Briquettes

The briquettes produced by the use of KIM-276, have been tested for compression test before and after preheating. The results of compression test for curing time of 120 min in a furnace of temperature 120 degrees with binder composition

varied from 4, 6, 12 Wt%, are shown in table 1. It shows a slight decrease in strength is observed when increase in binder % in the briquettes, the results have shown that Molasses+ Lime combination have more strength than the binder KIM 276.



Results of the compression test for hot briquettes



Figure: Briquetting Machine and Briquette pictures

26. DESIGN AND FABRICATION OF A 3D OF TESTING MECHANISM FOR UAV

Project Reference No.: 47S_BE_2767

College : *Gopalan College of Engineering and Management, Bengaluru*
Branch : *Aeronautical Engineering*
Guide(s) : *Mr. Suprith M*
Students : *Mr. Gagan D, Ms. Hemashree D S, Mr. Syed Sulthan K and Mr. Varun Reddy*

Keywords: Gimbal Mechanism, 3DOF, Pitch, Yaw, Roll, Drone Mounting, Stewart Mechanism, Stepper Motor, PID Tuning

Introduction:

The advancement in drone technology has necessitated the development of robust and accurate control mechanisms to ensure optimal performance and stability. One such innovation is the gimbal mechanism, which provides three degrees of freedom (3DOF) to control the pitch, yaw, and roll of a mounted object, such as a drone. This project focuses on the design and fabrication of a 3DOF gimbal mechanism tailored for drone mounting. The mechanism not only allows for precise control of the drone's orientation but also serves as a platform for PID tuning, enhancing the drone's flight stability and performance. The use of stepper motors and guide rails to convert rotational movement into linear displacement enables manual adjustment of the gimbal, thereby providing a versatile tool for both testing and operational purposes.

Objectives:

- To design and fabricate a 3DOF gimbal mechanism capable of mounting and controlling a drone.
- To integrate sensors for real-time feedback on the drone's orientation.
- To facilitate PID tuning for improved drone performance and stability.
- To provide a versatile platform for testing and development of drone control systems.

Sl No	Binder %		Curing Time	Avg Compression Strength (in N)	
	KIM-276	Curing Temp (°)		Before Preheating	After Preheating
1	4	120	in (N) 20 Min	667.08	765.18
2	6	120		362.97	696.51
3	12	120		598.41	725.94

Methodology:

- Design: The gimbal mechanism was designed using CATIA V5. The base plate was created by drawing a 200mm diameter circle and extruding it by 10mm. Additional components, including the rotating plate, hollow cylinder, and slider, were designed to provide the necessary degrees of freedom.
- Materials: The primary materials used include stainless steel for springs, aluminium for the base and rotating plates, and standard stepper motors for actuation.
- Fabrication: The designed components were fabricated using CNC machining and assembly techniques. Springs with specific stiffness were selected and integrated into the mechanism.
- Sensors: An accelerometer and gyroscope were mounted on the top plate of the gimbal mechanism to measure pitch, yaw, and roll angles. These sensors provided real-time data to the Arduino, which displayed the angles on an OLED screen.

- Stepper Motors and Guide Rails: Stepper motors were connected to guide rails to convert rotational movement into linear displacement, allowing manual adjustment of the gimbal's angles.
- PID Tuning: The system was tested using known pitch and roll angles input through the Mission Planner software. The feedback from the sensors was used to calibrate the system and minimize the error.

Results and Conclusions:

The fabricated 3DOF gimbal mechanism successfully mounted the drone and provided precise control over pitch, yaw, and roll angles. The integration of stepper motors and guide rails allowed for manual adjustments, and the real-time feedback from the sensors facilitated accurate PID tuning. The mechanism demonstrated reliable performance, with minimal error between the known input angles and the sensor readings. This project has laid the foundation for further advancements in drone control systems, particularly in enhancing stability and performance through precise mechanical adjustments and PID tuning.

27. Data Wizard

Project Reference No.: 47S_BE_4142

College : *Jyothy Institute of Technology, Bengaluru*
Branch : *Artificial intelligence and Machine Learning*
Guide(s) : *Dr. Madhu B R and Mrs. Ramya B N*
Students : *Mr. Neethu C V, Mr. Sharanya Naresh, Ms. Raksha and Ms. Kruthika K S*

Keywords: Data-driven, Data analysis, Model selection, Automated data cleaning, Data transformation, Data Visualization, Predictive modelling, CSV file users, Model Integration, Machine learning algorithms, Data preprocessing, Feature engineering, Model Optimization, Cross-validation, Python code generation

Introduction:

In today's era of data-driven decision-making, navigating vast volumes of information is both a challenge and an opportunity. This tool simplifies data analysis and model selection, specifically catering to users working with .csv files. This user-friendly interface is designed for efficient data management and analysis within these formats, serving as a central hub for handling structured data. It facilitates data import, export, and manipulation, empowering users to extract insights effortlessly.

One standout feature is its use of advanced algorithms to recommend suitable machine learning models tailored to .csv data. Leveraging AI, it analyses input data characteristics and accelerates the model selection process, ensuring effective predictive modelling. Designed with accessibility in mind, the intuitive interface caters to all skill levels, transforming complex tasks into easy steps with interactive visualizations.

This tool automates repetitive tasks associated with .csv data manipulation, providing built-in functionalities for data cleaning, transformation, and visualization. Additionally, it generates Python code tailored to the selected models, eliminating the need for manual scripting and democratizing access to predictive analytics. This is a game-changer for individuals and organizations working extensively with .csv files, simplifying data analysis and predictive modelling, and enabling informed decision-making and strategic planning.

Objectives

- Simplify dataset preprocessing by developing an intuitive platform that automates the identification of optimal machine learning models for specific data types, streamlining the initial steps of the data analysis journey.
- Streamline model selection by implementing advanced algorithms within the platform, enabling users to navigate the complex landscape of machine learning models with ease and confidence, regardless of their level of expertise.
- Facilitate seamless integration of machine learning solutions into workflows by generating Python code tailored to the selected model, eliminating the need for manual scripting and democratizing access to predictive analytics capabilities for users across various technical backgrounds.

Methodology

- *Data Collection:* Gather diverse and representative data from relevant sources, ensuring alignment with project objectives.

Validate data sources for reliability and accuracy through cross-referencing and credibility assessment.

- *Data Preprocessing:* Clean data by removing duplicates, errors, and irrelevant information. Standardize and normalize data to prepare it for analysis, ensuring consistency. Extract relevant features, creating new variables as needed.
- *Model Selection:* Evaluate various machine learning models, considering complexity, interpretability, and performance metrics. Select appropriate algorithms based on the problem type (classification or regression).
- *Model Training and Optimization:* Train the selected model using prepared data. Focus on training with pre-processed data and selected features.
- *Evaluation and Testing:* Test the model on a separate validation dataset to evaluate its accuracy and reliability. Use metrics like accuracy, precision, recall, and F1-score for classification problems; use R2-score for regression problems.
- *Deployment and Integration:* Deploy the optimized model in the target environment, ensuring seamless integration with existing systems. Provide a user-friendly interface for easy navigation. Generate Python code snippets based on user tasks and selections for further use.
- *Code Generation:* Automatically generate Python code snippets based on user actions and selections during the process, aiding in their tasks.

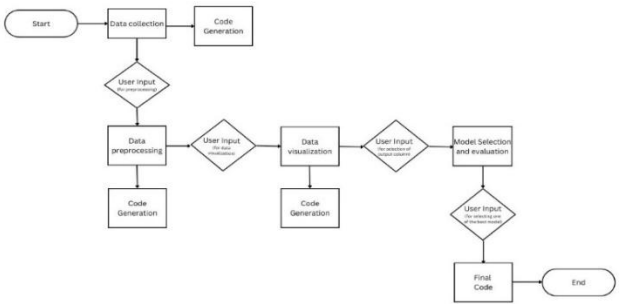


Figure: Data Flow Diagram

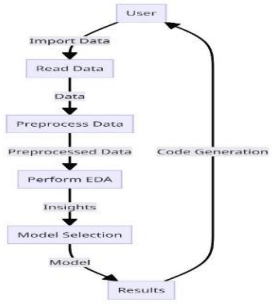


Figure 1: Use-case Diagram

Results and Conclusion

The results of this study showcase the transformative impact of our tool on data-driven decision-making processes. Through a comprehensive approach encompassing data collection, preprocessing, model selection, training, and evaluation, we've demonstrated its ability to streamline machine learning workflows effectively. By providing users with automated model selection and Python code snippets, our tool significantly enhances analytical efficiency and accessibility, catering to users of all skill levels.

Our tool's intuitive interface and advanced algorithms empower users to unlock valuable insights from diverse datasets, revolutionizing their decision-making capabilities. The successful deployment and integration of the optimized model highlight its practical applicability in real-world scenarios, ensuring smooth integration with existing systems. Overall, our study underscores the pivotal role of this tool in democratizing access to predictive analytics and empowering individuals and businesses to make well-informed decisions confidently.

28. PRECISION FARMS: ACCELERATED AGRICULTURE ANALYTICS WITH EDGE COMPUTING

Project Reference No.: 47S_BE_5138

College : *Siddaganga Institute of Technology, Tumakuru*
Branch : *Computer Science & Engineering*
Guide(s) : *Mr. Dr. Pramod T C*
Students : *Mr. Abhishek S, Mr. Akshath G, Mr. Chetan Managavi and Mr. Maruthi R*

Keywords: IoT, Edge Computing, Agriculture Analytics, Smart Farming, Real-time Data

Introduction:

The "PrecisionFarms: Accelerated Agriculture Analytics with Edge Computing" project integrates advanced technology with traditional farming to enhance agricultural practices through sophisticated real-time data analytics and environmental monitoring. By deploying cutting-edge sensors, the project collects comprehensive data on environmental and soil conditions such as temperature, humidity, wind, rainfall, and more. This data is processed using a high-performance Jetson Nano gateway that performs advanced analytics and predictive modelling. The system architecture includes MQTT for communication, Apache Kafka for data streaming, and InfluxDB for storing time-series data, ensuring robust and seamless data management. The insights derived from this data are displayed on an interactive dashboard that provides easy-to-understand visualizations and analytics, enabling even those with no technical background to make informed, data-driven decisions in real-time.

Objectives:

- Implement IoT sensors to collect real-time data on soil moisture, temperature, and nutrient levels.
- Deploy sensors for continuous monitoring of crop health indicators, integrating machine learning models for early detection of diseases and pests.
- Implement edge analytics to process data locally, enabling real-time decision making for farmers.
- Ensure secure communication between IoT devices and the central system by implementing robust security protocols.

Methodology:

1. Project Goals and Sensor Selection:

The project initiation focuses on defining clear goals and selecting appropriate sensors for environmental and soil health data collection. These sensors are designed to gather a comprehensive dataset critical for the analytics process.

2. Network Design and Hardware Components:

- The network architecture plays a pivotal role in this project. Initial steps involve deploying sensors that capture key data, which are connected to Node-MCU worker nodes. These nodes act as the primary data collectors.
- The worker nodes transmit data to high-performance Jetson Nano gateways via BLE/Wi-Fi, which serve dual roles as centralized data hubs and advanced analytics processors.

3. Network Configuration:

- Configuration tasks include setting up communication protocols to ensure secure and efficient data transfer.
- The system utilizes MQTT for robust communication linked to an Apache Kafka system for real-time data management and streaming.
- Data is stored in an InfluxDB time series database, with a secondary backup database to ensure data integrity and availability.

4. Advanced Analytics and Predictive Modelling:

- Conducted at the gateway level using the Jetson Nano, this phase involves advanced analytics and predictive modelling.
- By leveraging the GPU's computational power, the system can forecast crop needs and facilitate proactive decision-making to optimize resource usage.

5. Backend Development Process:

- Creating Backend Routes: Establish routes for the frontend to interact with, such as fetching sensor data, updating configurations, or retrieving analytics results.
- Securing Routes: Implement security measures like JWT or OAuth to ensure that only authorized users can access specified routes.
- API Design: Design a clear and intuitive API to facilitate easy interaction between

the frontend and backend, ensuring consistency in data returns.

- Data Storage and Database Integration: Design and manage database schemas for primary and backup databases, conducting CRUD operations as necessary.

6. User Interface:

The processed data is visualized on an interactive dashboard accessible via mobile phones and computers, providing a user-friendly interface that converts complex data into actionable insights, offering a broad overview of the agricultural landscape.

Results and Conclusion

The deployment of the "Precision Farms" project has showcased its effectiveness in merging advanced technology with traditional farming practices. The use of cutting-edge sensors to collect real-time data on environmental conditions and soil health has proven vital. These sensors monitor various factors including temperature, humidity, and soil moisture, providing a comprehensive data set that is more detailed than traditional farming methods allow. The system's backbone, supported by MQTT for efficient data communication, Apache Kafka for robust data streaming, and InfluxDB for accurate time-series data storage, ensures that data is not only collected but also effectively analysed using GPU-accelerated analytics.

The results from the analytics provide actionable insights that enable farmers to make informed decisions swiftly, leading to improved resource utilization and optimized agricultural outputs. The predictive modelling capabilities of the system anticipate crop needs, potentially reducing waste and enhancing crop yields. This integration of IoT and edge computing in agriculture has highlighted a significant shift from reactive to proactive management in farming operations, marking a substantial advancement in agricultural practices.

29. DESIGN AND DEVELOPMENT OF IMMERSION-COOLED BATTERY PACK FOR ELECTRIC VEHICLES

Project Reference No.: 47S_BE_2450

College : *Dayananda Sagar College of Engineering, Bengaluru*
Branch : *Automobile Engineering*
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Students : *Mr. Varoon Marian A. S., Mr. Ganesha T., Mr. Mohammed Hayath Shariff and Mr. Sujith M.C.*

Keywords: Conductivity, Cooling**,** Dissipation, battery, temperature, EV

Introduction

The global automotive landscape is in the throes of a transformative epoch, steering towards sustainable transportation solutions, with electric vehicles (EVs) spearheading the charge. This paradigm shift marks a departure from the traditional reliance on internal combustion engines (ICEs), heralding a new era of cleaner and more efficient mobility. EV technology's evolution represents a monumental leap forward, promising significant advancements in performance, efficiency, and environmental impact. Unlike ICE vehicles, EVs boast inherent advantages such as zero tailpipe emissions, reduced dependence on fossil fuels, and lower operational costs over their lifecycle. However, this transition is not without its challenges, including concerns over infrastructure development, battery technology, and range limitations. Nevertheless, the proliferation of EVs signifies a profound shift towards sustainable transportation and holds immense promise for reshaping the future of mobility on a global scale. As stakeholders navigate this dynamic landscape, fostering innovation and collaboration will be imperative to realizing the full potential of electric mobility and mitigating the challenges ahead. At the heart of the ascent of EVs lies the urgent imperative to combat environmental degradation stemming from vehicular emissions. Unlike their ICE counterparts, EVs operate by harnessing electricity stored in batteries, eliminating the need for combustion of fossil fuels. This key divergence grants EVs a pivotal edge with zero tailpipe emissions, thereby markedly curbing air pollution and greenhouse gas output. This shift towards electric propulsion not only addresses environmental concerns but also promotes sustainability and cleaner urban environments. The

adoption of EVs aligns with global efforts to mitigate climate change and transition towards a low-carbon future. This shift is driving innovation in battery technology, charging infrastructure, and renewable energy integration, laying the foundation for a greener transportation ecosystem. As EV adoption accelerates, it underscores a pivotal transition towards cleaner, more sustainable mobility solutions with far-reaching implications for the planet's health and future.

Efficiency stands as a pivotal measure in assessing the sustainability of transportation innovations. EVs demonstrate superior energy efficiency when juxtaposed with ICE vehicles, largely attributed to the direct transformation of electrical energy into mechanical motion within electric motors. Conversely, ICE vehicles contend with intrinsic inefficiencies linked to combustion procedures, transmission losses, and idling, culminating in diminished overall energy utilizationEfficiency stands as a pivotal measure in assessing the sustainability of transportation innovations. EVs demonstrate superior energy efficiency when juxtaposed with ICE vehicles, largely attributed to the direct transformation of electrical energy into mechanical motion within electric motors. Conversely, ICE vehicles contend with intrinsic inefficiencies linked to combustion procedures, transmission losses, and idling, culminating in diminished overall energy utilization.

Recent strides in EV technology have significantly minimized the performance disparity between EVs and ICE vehicles. Electric motors deliver immediate torque, providing rapid acceleration and agile driving characteristics. Additionally, EVs showcase smoother power delivery and quieter operation compared to ICE vehicles, thereby augmenting the overall driving experience and passenger comfort. As EV adoption increases, the development of robust infrastructure for charging and energy distribution becomes imperative. While ICE vehicles enjoy the advantage of a well-established network of refueling stations, the EV charging infrastructure is rapidly evolving to meet the escalating demand. Innovations like fast-charging stations and wireless charging technologies are transforming the landscape of EV charging, mitigating concerns related to range anxiety and charging durations. When consumers and fleet operators weigh vehicle procurement options, conducting a Total Cost of Ownership (TCO) analysis becomes crucial. Despite their higher initial costs, EVs frequently demonstrate lower operational expenses throughout their lifecycle in comparison to ICE vehicles. Factors such as diminished maintenance needs, decreased fuel (or electricity) expenses, and potential incentives collectively contribute to the advantageous TCO profile of EVs.

One of the enduring challenges confronting EV adoption is the limited range offered by current battery technologies. However, significant strides have been made in enhancing battery energy density, prolonging lifespan, and reducing charging times. Advancement in solid-state batteries, lithium-sulfur batteries, and other emerging technologies hold promise for overcoming range limitations and enhancing the viability of EVs for long- distance travel. While EVs offer a cleaner alternative to ICE vehicles in terms of emissions, their environmental impact extends beyond tailpipe emissions. The production and disposal of batteries, as well as the sourcing of raw materials such as lithium and cobalt, raise concerns regarding sustainability and ethical sourcing. Addressing these challenges necessitates holistic lifecycle assessments and the development of recycling infrastructure for battery components. The shift from ICE vehicles to EVs marks a pivotal juncture in the automotive sector, propelled by imperatives of environmental stewardship, energy conservation, and technological progress. While ICE vehicles have historically dominated personal and commercial transportation, the rapid progression of EV technology emphasizes the unavoidable trajectory toward an electric-driven future. With ongoing refinement of EV technology and the gradual resolution of infrastructure challenges, the prospect of clean, efficient, and sustainable mobility emerges, heralding a transformative era in transportation.

Methodology:

- Design and develop a prototype of the immersion-cooled battery pack for electric vehicles. This could include selecting appropriate components, such as the cells, cooling fluids, pumps, and heat exchangers.
- A scale-down version of the battery pack is created for thermal testing. This model is put through a series of simulations where the coolant flow rate and charge/discharge

rate of the battery pack is varied. The result helps us to understand the real-world thermal performance of the battery back.

- Conduct testing and evaluation of the prototype to assess its performance and determine its effectiveness. This could include tests such as heat management, controlling heat by varying the flow rate and charge/discharge rate.
- Battery pack was designed in conjunction with its auxiliary systems utilizing a hybrid immersion cooling. The results will be documented and can be used as a reference for further research on improving this system.

Conclusion:

"Design and development of immersion-cooled battery percent for electric powered vehicles" has efficiently added a unique answer for battery thermal management systems (BTMS), supported through company and authorities' investment. Through tremendous literature review, computational simulations, and experimental validation, we've tackled crucial demanding situations in EV battery cooling. Beginning with complete research, we conceptualized and designed a bespoke battery percent offering immersion cooling, leveraging the advanced warmness dissipation residences of dielectric fluids. Computational simulations aided in optimizing layout parameters, making sure green warmness dissipation and temperature uniformity. With sponsorship and authorities aid, we synthetic and examined the prototype battery percent, incorporating our progressive layout and dielectric fluid formulation. Experimental checking out showed the efficacy of our answer in preserving surest running temperatures and mitigating thermal risks. On testing at 2C rating in real life and in comparison, with ideal simulation trails we were able to achieve the nearest to ideal results The novel dielectric fluid exhibited advanced heat transfer traits and thermal stability, surpassing traditional cooling methods. Our interdisciplinary collaboration highlights the significance of academic-enterprise partnerships in advancing sustainable transportation solutions. Moving forward, our task lays the basis for similarly innovation in immersion-cooled battery percent layout and EV thermal control. As the car enterprise transitions toward electrification, our paintings contribute to the evolution of BTMS and the wider electrification of transportation. In end, our task marks a vast milestone withinside the improvement of safer, greater green, and environmentally sustainable electric powered vehicles. We amplify our gratitude to our team, mentors, partners, and investment groups for his or her aid in understanding this endeavor.

30. ADVANCED TREATMENT METHOD OF SALINE WATER USING THERMAL DESALINATION, OSMATIC MEMBRANE AND GEO-TEXTILE FILTER MEDIA

Project Reference No.: 47S_BE_0314

College : *Dayananda Sagar Academy of Technology and Management, Bengaluru*
Branch : *Civil Engineering*
Guide(s) : *Prof. Shreyas B. V. and Dr. K. N. Vishwanath*
Students : *Mr. Yashas R. Ms. Yashaswini M. Mr. Prajwal S. and Mr. N. B. Vishwanath*

Keywords: Saline Water, Purification, Batch Studies, Desalination, Osmatic Membrane, Geo-textile, Electric Energy.

Introduction:

India is facing a severe freshwater shortage primarily due to population growth and changing lifestyles, which have driven increased human activity. The overuse of groundwater by agriculture, industry, and households exacerbates this scarcity. Additionally, water quality degradation from various pollutants intensifies the problem, leading to significant economic and political conflicts over water distribution. The health impacts are substantial, with around one million children dying annually from water-related diseases and approximately 45 million people affected by poor water quality. To tackle this crisis, membrane desalination (TOG) emerges as a promising solution. This technology offers a sustainable way to produce freshwater, reducing dependence on fossil fuels and lowering greenhouse gas emissions. Membrane desalination systems purify saltwater using electric energy, addressing the growing demand for clean water in regions with limited access. This study examines the factors affecting the efficiency of membrane desalination prototypes, including design, materials, insulation, and other key parameters. It proposes an

innovative approach that combines evaporation and desalination using electric energy, 2 47th Series Student Project Programme (SPP) – 2023-24 followed by reverse osmosis with osmotic membranes and geo-textile membranes to filter saline water. Both experimental and theoretical evaluations are conducted to assess the system's effectiveness in utilizing electric energy for freshwater production. Furthermore, the study discusses the current state of membrane desalination technology in India, highlighting its potential, challenges, and future prospects for addressing freshwater scarcity, especially in coastal areas.

Objectives:

The primary goal of this project is to enhance the design of a simple membrane desalination system for converting seawater into potable water, addressing the critical need for drinking water along coastal areas with large populations. The specific objectives of the project include:

- Evaluate and characterize three methods of desalination identified for study through prototype model (Thermal, Osmosis, Geo-textile).
- To analyze the various Physico-chemical characteristics of collected saline water adopting all three methods.
- To design and fabricate prototype model to treat saline water at an optimum efficiency level.
- Comparative analysis of water treatment by all three methods adopted for their efficiencies as filter media.

Methodology:

Materials:

1. Stainless Steel Container used for initial prototype fabrication, we used stainless steel container of 303 grade to boil the water, commonly used due to their corrosion resistance properties, heat resistance, provide added durability and resistance to deformation or warping at higher temperatures.
2. The copper coil is attached to the thermal desalination prototype, which is acts as cooling system. Copper is chosen for its excellent thermal conductivity and corrosion resistance properties, making it ideal for transferring heat efficiently and withstanding the corrosive nature of saline water and steam.
3. The spiral wound membrane with a 0.2-micron layer in a reverse osmosis system offers precise filtration, comprehensive contaminant removal, high efficiency, durability, and versatility, making it an ideal solution for producing safe and portable water from saline sources. The overall filtration capacity is of 6000L.
4. Osmosis membrane cartridge offer efficient, selective filtration of contaminants from water, providing high-quality, purified water for various residential, commercial, and industrial applications. Their durability, compatibility, and ease of installation make them essential components in reverse osmosis water treatment systems.
5. 200 GSM of non – woven fabric to filter saline water. Non-woven geotextile offers a range of features that make it well-suited for filtering saline water, including high filtration efficiency, chemical and biological resistance, strength, flexibility, permeability, UV resistance, cost-effectiveness, and environmental sustainability.
6. PVC pipes with a diameter of 30mm offer a range of features including durability, corrosion resistance, lightweight, smooth interior surface, chemical inertness, low thermal conductivity, flexibility, impact resistance, long service life, and cost-effectiveness. These features make them versatile and widely used in residential, commercial, industrial, and agricultural applications for conveying water.
7. Fiberglass tubes, also known as fiberglass reinforced plastic (FRP) tubes or fiberglass composite tubes, are cylindrical structures composed of fiberglass 5 47th Series Student Project Programme (SPP) – 2023-24 strands embedded in a resin matrix. fiberglass tubes are versatile, lightweight, durable, corrosion-resistant, electrically and thermally insulating, and costeffective structural components used in various industrial, commercial, and residential application

Results and Conclusions:

Based on the study's findings, it can be concluded that membrane desalination holds great potential as a technique for converting saltwater into freshwater.

- The seawater sample was brought from Mangalore and initial laboratory analysis were conducted for various parameters like pH, Alkalinity, Ca2+, Mg2+ , Total Hardness, Turbidity, TDS, Cl- , Nitrate, Iron was 7.12, 85.6mg/l as CaCO3, 73.2mg/l as CaCO3, 50.1mg/l as CacO3, 353.8mg/l as CaCO3, 1.21NTU, 402.7mg/l, 295.7mg/l, 29.53mg/l, 0.15mg/l respectively.
- By utilizing electric energy for evaporating seawater in the desalination process, then condensing and transferring it to osmatic membrane to decrease Physico-Chemical Analysis of Seawater Sample After Overall Filtration Through Fabricated Prototype Fabricated Prototype Model 7 47th Series Student Project Programme (SPP) – 2023-24 mineral content, and subsequently filtering it through geotextiles to remove any remaining salt content, provides a sustainable and economically viable option compared to conventional membrane desalination methods.
- Promising results were achieved, demonstrating significant reductions in pH, alkalinity, Ca2+, Mg2+, total hardness, total dissolved solids (TDS), turbidity, Cl-, nitrate, and iron by 16.33%, 65.84%, 83.73%, 94.13%, 60.69%, 86.56%, 98.03%, 68.76%, 50.78%, and 89.29% respectively, reaching acceptable levels.
- Membrane desalination models, which depend on electric energy for operation, prioritize environmental sustainability and economic viability. The efficiency of prototype membrane desalination models is affected by various factors, including system design and the effectiveness of the membrane desalination process.

31. AQUALINK COMMUNICATION USING ACOUSTIC MODEM

Project Reference No.: 47S_BE_4460

College : *Dr. Ambedkar Institute of Technology, Bengaluru*
Branch : *Computer Science and Engineering*
Guide(s) : *Dr. Madhu B.*
Students : *Ms. Likhitha R, Ms. Lavanya N., Ms. Prajna M. S. and Ms. Pooja K. C.*

Keywords: Underwater optical wireless communication (UOWC), Light Fidelity (LiFi), Optical Communication, Infrared (IR) transmitters and receivers, Phototransistor.

Introduction:

Visible Light Communication based Aqualink system that can be used for wireless communication of messages even through water. The system can prove to be a very cheap alternative to long heavy physical wires that run through seas, rivers and require large costs for laying those wires and their maintenance. Our system makes use of infrared transmitter receiver in order to achieve this system. Our system consists of two microcontroller-based circuits that have IR transmitter-receiver pairs as well as LCD displays for displaying the messages. Each system has a keyboard connected to it in order to type in messages. We use two water barrels in order to demonstrate Aqualink using signals passing through those containers. The system also has an acknowledgement receipt message that is sent back from the receiving circuit to the transmitting circuit on message receipt. This allows for efficient communication between two circuits wirelessly.

Wireless communication has been booming in the recent years. However, not much has been done to accomplish communication in water in a wireless manner which can be useful in many scenarios. Most of the communication modes that are existing as of now are either not reliable or are very expensive. IR rays can pass through water and thus can be used in case of line of sight for communication purpose in this medium. IR Communication using Keyboard uses two units both controlled by ATmega family microcontroller. Both of the units have IR Trans-receivers as communicating agents. Keyboards are needed to be connected on both the ends to enter input to the system. The communication messages get displayed on the LCD connected to the system. The system communicates with confirmation key

that is sent back by the receiving unit to the sending unit. In this way wireless communication is implemented with great efficiency within a line-of-sight range of about 3-4 meters under the water with the help of IR Communication using Keyboard project.

Objectives:

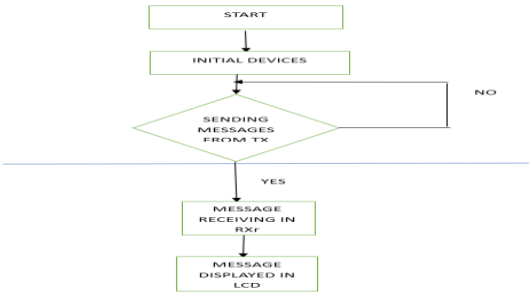
- To design an algorithm with Transducer/Acoustic Modem to enable wireless transmission system of messages through water, facilitating communication between underwater nodes such as submarines, Autonomous Underwater Vehicles (AUVs), and surface nodes.
- To implement VLC as the communication technology capable of transmitting data through light, making them suitable for wireless communication in aquatic environments.
- To design a system to automate cable handling mechanism to reduce human effort, cutting down on manual cable handling for the use of Military and operational benefits and boosting AUV performance with secure message transmission.
- To sense the water environment like PH, Turbidity, Temperature.
- To design User-friendly features, include keyboard input and Atmega328 microcontroller processing. Its versatility extends its applications beyond the military, making it valuable in research, offshore industries, and environmental monitoring sectors.

Methodology:

The VLC-based Aqualink system's development entails rigorous steps: defining system requirements including range, encoding, and security; selecting components like IR transmitters, Atmega328 microcontrollers, and keyboards; designing circuitry; establishing transmission protocols and acknowledgment mechanisms. Simulated underwater tests validate its efficiency and reliability in message delivery. Optimizations fine-tune the system for enhanced performance. Critical security measures, including encryption, safeguard sensitive transmissions. Overall, this systematic approach aims to create a cost-effective, reliable, and secure.

Materials Required

- *Power Supply and Transformer:* Steps down AC to 12V, rectifies to 5V DC ensuring a stable power
- *LCD Display:* Utilizes 16x2 or 20x2 HD44780U standard LCDs, for message display.
- *Microcontroller (Atmel ATmega328P):* Features a 32K 8-bit AVR architecture,
- *IR LED and TSOP Receiver:* IR LED transmits infrared rays, while the TSOP receiver decodes remote control signals.
- *Pc communication:* Acts as an input device, enabling users to enter messages and commands into the system.
- *Lifi transmitter:* Lifi transmitter part consists of led driver circuit and led with uart extension.
- *Lifi receiver:* Lifi receiver part consists of photodiode with uart extension, which converts the light pulses received to data and transfers through uart.
- *Solar Panel:* A solar cell, is an electrical device that converts the energy of light directly
- *Temperature sensor:* Temperature sensors are vital to a variety of everyday products
- *Contact Sensors:* Contact temperature sensors measure the temperature of the object to which the sensor is in contact
- *PH Meter:* A pH meter is essentially a voltmeter with a high input impedance which measures the voltage of an electrode sensitive to the hydrogen ion concentration



Transmitter Side:

- *Arduino Setup:* Setup the Arduino board as the main controller for the transmitter side.

Connect the pH sensor, turbidity sensor, temperature sensor, and an LCD display to the Arduino.

- *Sensor Calibration:* Calibrate the pH sensor, turbidity sensor, and temperature sensor according to the manufacturer's instructions to ensure accurate readings in the underwater environment.
- *Data Acquisition and Processing:* Develop code to read sensor data from the pH sensor, turbidity sensor, and temperature sensor.
- *LiFi Transmitter:* Integrate a LiFi transmitter module with the Arduino to modulate the sensor data onto light signals. Use a high-intensity LED as the light source for transmitting data.
- *LCD Display:* Display real-time sensor readings on the LCD display connected to the Arduino. Update the display with new sensor data periodically.

Receiver side:

- *Arduino Setup:* Set up another Arduino board as the main controller for the receiver side. Connect an LCD display to the Arduino for displaying received sensor data.
- *LiFi Receiver:* Integrate a LiFi receiver module with the Arduino to receive modulated light signals transmitted by the transmitter side. Use a photodiode or phototransistor to detect the modulated light signals underwater.
- *Data Decoding:* Develop code to decode the received light signals and extract the sensor data transmitted by the transmitter side.
- *LCD Display:* Display the received sensor data on the LCD display connected to the Arduino. Update the display with new sensor data received from the transmitter side.
- *Secure Communication:* Thus, transferred encoded data was received by photodetector which was in the receiver side.

Results

The suggested method is implemented using the LiFi module to transmit and to receive the messages. In our project we can send the messages through two ways: one is through text message with the help of a keyboard and another through switches. There are four switches which collect information from the sensors and display it on the transmitter side and send the same to the receiver end and display the values in the receiver LCD.

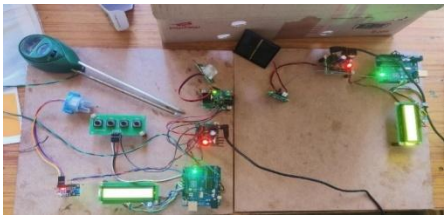


Figure 1: Final model of Aqualink

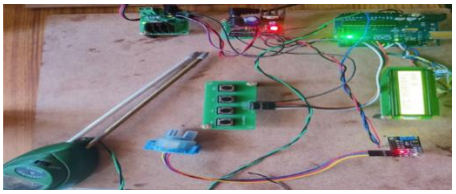


Figure 2: The transmitter model with switches & keyboard for message sending

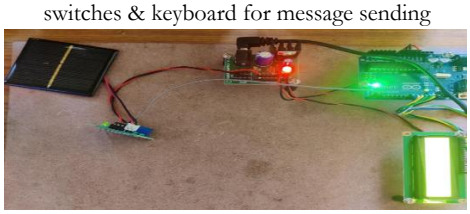


Figure 3: The receiver model with LiFi



Figure 4: pH data collected by switch press receiver for message reception.

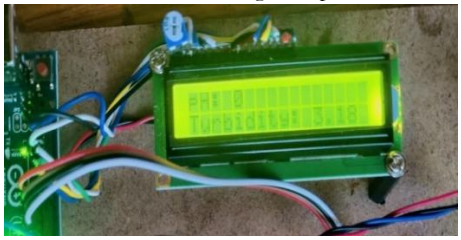


Figure 5: pH value collected post-switch



Figure 6: Picture shows temperature collected from sensor



Figure 7: The image displays sender's text message and sends it to receiver.



Figure 8: Text message from sender displayed on receiver.

Conclusion:

Proper exploration of the ocean environment for communications requires a clear understanding of the mechanisms affecting the underwater signal, such as the attenuation characteristics originating from the propagation properties of RF, optical, and acoustic transmissions. Modeling underwater signal propagation is very difficult but its understanding plays as key role in determining the effective data processing at the transmitter and at the receiver so that reliable and accurate communications are possible. As expected, each communication technology requires distinct channel modeling, making the task of conceiving a network employing flexible modems much more challenging.

32. RAILSAFE: ADVANCING RAILWAY SAFETY THROUGH AUTOMATED GATE CONTROL, SMOKE DETECTION AND AIRBAG SYSTEM

Project Reference No.: 47S_BE_0409

College : *East West Institute of Technology, Bengaluru*
Branch : *Computer Science and Engineering*
Guide(s) : *Dr. Achyutha Prasad N.*
Students : *Ms. Priya S. Ms. Priya R. Ms. Preksha C. and Ms. Pavithra M. R.*

Keywords: Railway safety, automated gate control, smoke detection, airbag system, collision mitigation, fire threat detection, passenger well-being, machine learning, wireless communication

Introduction:

Power RailSafe revolutionizes railway safety by integrating cutting-edge technologies to tackle key safety challenges. Its automated gate control system utilizes advanced sensors like radar, lidar, and video to detect approaching trains accurately, ensuring timely gate closures and reducing collision risks at crossings. In passenger safety, RailSafe introduces a pioneering airbag system that deploys strategically within train compartments during collisions or derailments, significantly reducing injury risks.

For smoke and fire detection, RailSafe employs machine learning with the YOLOv algorithm, enhancing accuracy and reliability. This system analyzes real-time sensor data to swiftly identify fire hazards, enabling prompt interventions and reducing false alarms.

The strength of RailSafe lies in the synergy of its components. Automated gate control, ML-based smoke detection, and advanced airbag systems work together, sharing data in real-time to enhance each other's capabilities. This holistic approach ensures comprehensive safety coverage, proactive risk mitigation, and rapid response to incidents. RailSafe sets new benchmarks for 2 47th Series Student Project Programme (SPP) – 2023-24 safety, reliability, and efficiency in railway operations, fostering a safer and more resilient rail network for passengers and cargo.

Objectives:

The RAILSAFE project aims to enhance safety through an Automatic Wireless Railway Gate Control System, streamlining traffic at

crossings with advanced sensors and wireless tech to reduce collision risks. Here are the key objectives:

1. Automated Railway Level Crossing System:
    - Develop a system to automate the opening and closing of railway level crossing gates.
    - Implement infra-red sensors for accurate detection of train arrival and departure.
    - Utilize Arduino for real-time control of gate operations based on sensor inputs.
    - Eliminate the need for manual intervention by gatekeepers for improved efficiency.
    - Prevent traffic congestion by ensuring timely gate operations even in the case of delayed trains.
2. Computer Vision-Based Fire Detection System:
    - Implement a computer vision-based system for fire detection using image processing techniques.
    - Utilize visual characteristics such as brightness, spectral texture, spectral flicker, and edge trembling to discriminate fires from other stimuli.
    - Overcome limitations of traditional fire detection methods, such as false alarms, by relying on image- based information.
    - Enhance reliability and accuracy in fire detection by leveraging computer vision capabilities.
3. Efficient Implementation of Airbag System:
    - Enhance the efficiency of the automotive safety restraint system (airbag) for occupants and passengers.
    - Ensure rapid and controlled inflation of the airbag during a collision to effectively cushion occupants.
    - Reduce the number of injuries by minimizing the force exerted on occupants from windows, and dashboard.

Methodology:

The diagram automated gate control system for railway crossings, powered by an Arduino Nano microcontroller, integrates various components to ensure safety. The Arduino receives inputs from an RF transmitter for remote gate operation and a magnetic sensor detecting approaching trains.

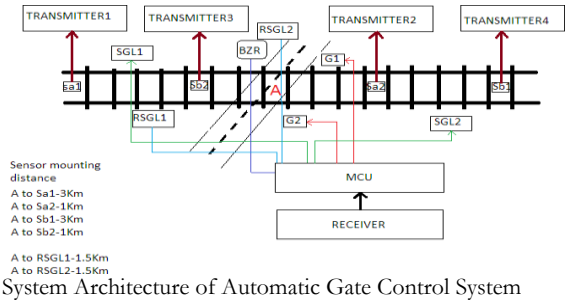


Figure 1: System Architecture of Automatic Gate Control System

An audible buzzer alerts pedestrians and vehicles before gate closure, while road signals indicate safe crossing times. Light-dependent resistors (LDRs) ensure the gate remains closed until the train passes, and street lights with LDRs illuminate at night. A NodeMCU monitors gate malfunctions, sending alerts with location details for maintenance. A servo motor operates the gate, with limit switches preventing overextension.

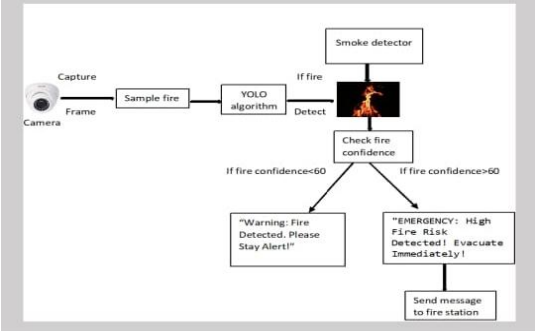


Figure 2: Fire detection system architecture

The fire detection system architecture utilizing machine learning (ML) and the YOLOv algorithm consists of several key components. Firstly, video feeds from surveillance cameras are input into the system. These feeds are then processed by the YOLOv algorithm, which detects and localizes fire incidents in real-time. Once a fire is detected, the system triggers an alert mechanism to notify relevant authorities or personnel. Additionally, the system may incorporate a database for storing historical fire data, enabling further analysis and refinement of the detection algorithm. Overall, this architecture enables proactive fire detection and response, enhancing safety measures in various environments.

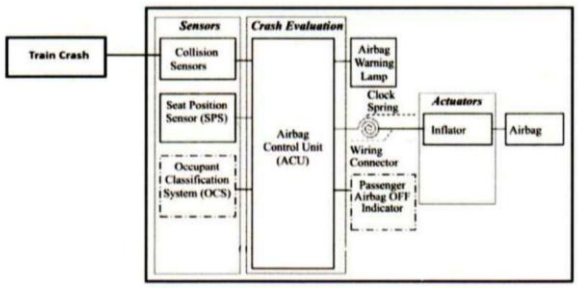


Figure 3: Airbag system

Airbag System within trains, strategically deploying airbags triggered by sensors to mitigate the impact of collisions or derailments, prioritizing passenger protection and reducing injury risks during unforeseen incidents.

Results and Conclusions:

As The project has successfully achieved significant advancements in railway safety, fire detection, and automotive safety. The automation of railway level crossing gates using magnetic sensor sensors and Arduino control has improved efficiency while mitigating safety risks associated with manual operation. By integrating computer vision and image processing techniques, the fire detection system offers a more reliable alternative to traditional methods, minimizing false alarms and providing timely responses to potential fire incidents. Additionally, the implementation of airbag technology in automotive safety serves as a crucial restraint mechanism during collisions, mitigating injuries by absorbing and distributing impact forces. The success of these life-saving technologies highlights the potential of automation, computer vision, and advanced safety measures in enhancing transportation safety and emergency response mechanisms. Overall, the project marks a significant step forward in improving safety across various transportation sectors.

Innovation in project:

The project introduces significant innovations compared to current safety systems. Traditional railway gate control relies on manual operation, prone to delays and inefficiencies, whereas the new system uses an Arduino Nano microcontroller, magnetic sensors, and RF module for precise, automated gate control, with real-time monitoring via NodeMCU. Current fire detection methods often suffer from false alarms and delays, but the new system employs machine learning and the YOLOv algorithm to analyze video feeds for accurate and timely fire detection. Additionally, existing train safety measures lack advanced impact protection; the project's strategic deployment of airbags within train compartments, triggered by sensors, significantly enhances passenger protection during collisions or derailments. These innovations collectively enhance efficiency, accuracy, and safety in transportation.

Scope of future work:

Our project can be further more developed to produce the following outputs in the future:

- Enhanced Sensor Integration: Incorporate more advanced sensor technologies, such as thermal imaging and ultrasonic sensors, to further improve the accuracy and reliability of train detection and fire identification.
- Real-time Data Analytics: Develop a comprehensive data analytics platform to analyze real-time data from all integrated systems, providing predictive maintenance insights and further improving safety measures.
- Scalability and Deployment: Test and scale the automated gate control and fire detection systems for deployment across diverse railway networks globally, adapting the technology to various environmental and operational conditions.
- Passenger Safety Innovations: Explore additional passenger safety measures within trains, such as automated braking systems and advanced structural designs, to further mitigate injury risks during accidents.
- IoT Integration: Integrate the systems with broader Internet of Things (IoT) networks to enable centralized monitoring and control, enhancing coordination between different safety mechanisms and improving overall efficiency.
- User Interface Development: Design user-friendly interfaces and mobile applications for real-time monitoring and control by railway personnel and emergency responders, facilitating quicker and more efficient responses to incidents.
- Environmental Adaptations: Adapt the systems for use in different climates and

terrains, ensuring consistent performance and reliability in various geographical regions.

By pursuing these future work avenues, the project can continue to evolve and set new benchmarks in railway safety, operational efficiency, and passenger protection.

33. VENOMX: EMPOWERING WINDOWS WITH A VOICE-POWERED AI ASSISTANT

Project Reference No.: 47S_BE_1314

College : *Hirasugar Institute of Technology, Nidasoshi*
Branch : *Department of Computer Science and Engineering*
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Student(S) : *Mr. Aditya Y. Kesarkar*
Ms. Akhila Rendale
Ms. Shraddha Patil
Mr. Siddappa Godi

Keywords: AI-Powered Windows Assistant, Voice Commands, GUI, Remainders, File Management Application Control, NLP, Calling/email

Introduction:

The Venom X AI assistant which is dedicated towards empowering Windows with a voice-powered AI assistant, is multifaceted and an ambitious goal. At its core, VenomX aims to revolutionize the user experience by implementing robust voice recognition technology, enabling users to effortlessly interact with their Windows environment through a diverse set of voice commands. System integration is a key focus, ensuring compatibility with core Windows features while exploring opportunities for collaboration with third-party applications. The project encompasses an array of features, information retrieval, and hands-free control of Windows applications, all designed to enhance user convenience. User interface and experience are paramount, with a commitment to delivering an intuitive and enjoyable interaction model. Security measures are rigorously implemented to protect user data, and comprehensive documentation and robust support mechanisms are put in place to assist users effectively. Scalability, performance optimization, adherence to legal and ethical standards, and a commitment to continuous improvement through user feedback round out the comprehensive scope of the VenomX project, aspiring to redefine the landscape of voice-powered AI assistants on the Windows platform.

VenomX AI assistant provides a hands-free interface for physically challenged individuals, enabling them to interact with Windows systems effortlessly. Additionally, its intuitive design caters to non-IT users and senior citizens, simplifying tasks and enhancing accessibility through voice commands and streamlined operations.

Objectives:

(a) Natural Language Interaction: Implement advanced natural language processing (NLP) to facilitate natural and intuitive voice interactions, allowing users to communicate with their devices in a conversational manner.
(b) System Control and Navigation: Empower users to control and navigate the Windows interface using voice commands, covering system settings, application launches, and overall system control.
(c) Web Browsing Integration: Incorporate web browsing capabilities, enabling users to search the web, open websites, and perform online tasks using voice commands.
(d) Reminders and Notifications: Implement a reminder system that allows users to set alarms, schedule events, and receive notifications through voice commands.
(e) Email Management: Integrate features for managing emails via voice commands, including reading messages, composing replies, and organizing the inbox.
(f) Access third party apps: Custom made for supporting most of the popular apps like Media players, Facebook, Instagram and others.

Methodology:

Voice assistants are all written in programming languages, which listens the verbal commands and respond according to the user's requests. In this project we have used Python programming language to build the AI based Voice-Assistant. A user can say "Play a song" or

"Open Facebook.com" the assistant will respond with the results by playing that particular song or by opening Facebook website. The Voice assistant waits for a pause to know that users have finished their request, then the voice assistant sends users request to its database to search for the request.

(a) The request asked by the user gets split into separate commands, so that our voice assistant can able to understand.
(b) Once within the commands list, our request is searched and compared with the other requests.
(c) The commands list then sends these commands back to the Voice assistant.
(d) Once the voice assistant receives those commands, then it knows what to do next.
(e) The voice assistant would even ask a question if the request is not clear enough to process it.
(f) If it thinks, it understands enough to process it, the voice assistant will perform the task which the user has asked for.

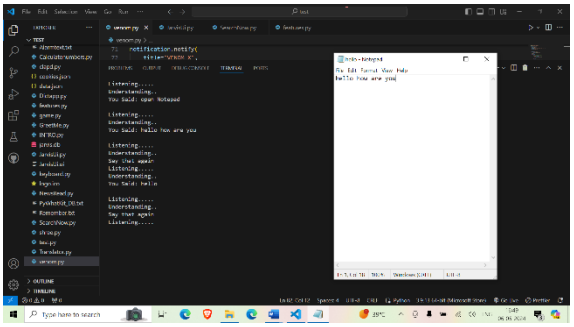


Figure 1: Process of AS

As shown in Figure 1. Automatic Speech Recognition which is termed as ASR is the main principle behind the working of AI-based Voice Assistant. The ASR systems, at first it records the speech, then the wavefile has been created by the device which consists of the words it hears, later the wavefile will be cleaned so that the background noise would get deleted and the volume will be normalized, then it will break down into elements and it will be analysed in sequences, then the ASR software examines these sequences and it



implements statistical probability to find out the entire words and then it will get processed into text content. The better method to recognise elements is Element Recognition as it provides better results than the method of word decoding.



Conclusion:

VenomX AI Assistant marks a big step forward in the integration of artificial intelligence into the Windows operating system. VenomX enables consumers to engage with their devices more intuitively, efficiently, and easily by leveraging the power of natural language processing and powerful automation capabilities. VenomX improves productivity and streamlines the user experience by completing sophisticated processes in addition to doing fundamental chores. VenomX, with its seamless integration, is poised to transform how we engage with technology, opening the path for a more intelligent and interconnected future.

Scope for future work:

1. Serial Module Integration: Enable communication with external hardware devices for automation tasks like IoT control and home automation via voice commands.
2. Enhanced NLU: Improve comprehension and interpretation of user commands by refining language models and incorporating advanced NLP techniques like sentiment analysis.
3. Multi-language Support: Broaden accessibility by extending language support beyond English, accommodating diverse linguistic patterns and cultural nuances.
4. Voice Biometrics and Authentication: Enhance security and personalization with voice biometrics for user identification and authentication.

34.SMART IOT-ENABLED FLORAL WASTE RECYCLING SYSTEM FOR SUSTAINABLE BIOMATERIAL PRODUCTION

Project Reference No.: 47S_BE_2699

College : *RR Institute of Technology, Bengaluru*
Branch : *Department of Computer Science and Engineering*
Guide(s) : *Dr. Manjunath R.*
Student(S) : *Mr. Suhail N.*
Mr. Hethishe B. J.
Ms. Srushti H. K.
Mr. Deepak R
Ms. Pooja K. C.

Keywords: IoT technology, Sustainable waste management, Waste flowers, Smart waste management solutions, Eco-friendly solution, IoT devices, Smart dustbins, Recycling mechanism, Organic fertilizer, Environmental sustainability, Agricultural practices, Microcontrollers (Arduino), Mobile app development, Community engagement, Positive impact.

Introduction:

This innovative project integrates advanced IoT technology with sustainable waste management practices to tackle environmental concerns, focusing on transforming waste flowers into valuable resources. By revolutionizing floral waste handling, especially from places like temples in India, smart waste management solutions are deployed. The core objective is an efficient, eco-friendly disposal solution for waste flowers, common byproducts of religious rituals. Leveraging IoT devices like smart dustbins with sensors, the project automates collection and incorporates an IoT-driven recycling mechanism to convert floral waste into organic fertilizer, aiding environmental sustainability and agriculture.Key project features include smart dustbins with ultrasonic sensors for automated collection in ritual places. An IoT-enabled recycling process uses a specialized machine with a heater and dehydrator to dry and grind flowers into high-quality organic fertilizer. The technological backbone includes IoT devices, microcontrollers, sensors, and a wireless framework for data transmission. Cloud-based platforms like Firebase manage data, with a mobile app interface developed for Android using Flutter and Dart.The meticulous implementation process starts with deploying smart dustbins for optimized waste collection. Ultrasonic sensors detect fill levels, triggering notifications for collection. Collected waste undergoes IoT-powered recycling, transforming flowers into fertilizer. The project aims for substantial environmental and agricultural impact, mitigating water pollution from floral waste disposal and enhancing soil fertility through recycled organic fertilizer. It also engages local communities in waste initiatives, fostering environmental awareness. Future plans include expanding to more locations, enhancing IoT features for monitoring and analytics, and collaborating with agricultural communities for fertilizer utilization. These align with the project's commitment to continuous improvement and positive environmental impact. Ultimately, this project blends environmental consciousness with IoT innovation and community engagement for a greener, healthier future, turning waste flowers into valuable resources sustainably.

Objectives:

1. Development of an Automated Floral Waste Collection System

Design and implement a network of smart dustbins equipped with ultrasonic sensors strategically placed in ritual places, such as temples in India.

   (a) Utilize IoT technology to enable automated waste collection, where the smart dustbins detect fill levels and trigger notifications for timely collection.
   (b) Ensure a user-friendly interface for local communities, encouraging seamless interaction with the automated collection system.

2. Efficient Drying Process Create an IoT-enabled recycling machine capable of efficiently processing waste flowers collected from the automated system.
   (a) Implement a drying mechanism using a heater and dehydrator to ensure optimal moisture removal from the waste flowers.
   (b) Integrate sensors to monitor and control the drying process, maintaining an ideal environment for effective flower dehydration.

3. Biomaterial Production

Develop a streamlined process for turning the dried waste flowers into a high-quality biomaterial, such as organic fertilizer.

(a) Utilize a composting method to transform the flower powder into a valuable and nutrient-rich material suitable for agricultural use.
(b) Explore the possibility of producing additional biomaterials or by-products from the floral waste to maximize resource utilization.

4. Data Monitoring and Analysis

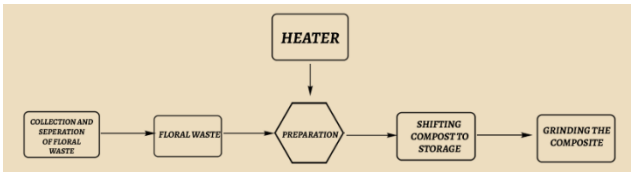
Implement a robust data monitoring system to track the fill levels of smart dustbins in real-time.

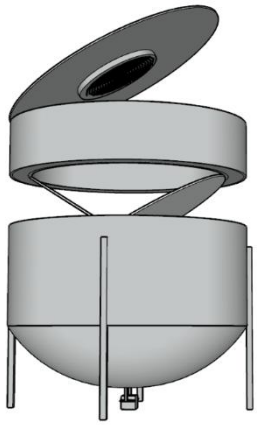
(c) Utilize IoT devices and sensors to collect data on the drying process, including temperature, humidity, and processing times.
(d) Implement a cloud-based data storage solution, such as Firebase, to store and manage the collected data efficiently.

Methodology:

For our project, we have diverse software requirements spanning IoT devices, a recycling machine, a mobile application, and potential web dashboard. The IoT devices, namely Smart Dustbins, necessitate microcontroller programming and connectivity through MQTT or cloud based IoT platforms. The Recycling Machine requires dedicated programming for its microcontroller or PLC, along with control software. The Mobile Application, developed using Flutter and Dart, mandates integration with various elements like IoT, mapping APIs, and databases. Cloud services will play a pivotal role in data storage and processing, and a potential web dashboard could be developed for advanced analytics. Version control, documentation tools, and collaboration platforms will ensure effective project management. The choice of Flutter and Dart for the mobile application aligns with the goal of creating a seamless, cross-platform user interface for efficient waste management and recycling practices.

To meet our project's diverse software requirements, we've undertaken several tasks. We've programmed IoT devices like Smart Dustbins for microcontroller connectivity via MQTT or cloud IoT platforms. The Recycling Machine received dedicated programming for its microcontroller or PLC, coupled with control software development. Our Mobile Application, built with Flutter and Dart, integrates IoT, mapping APIs, and databases seamlessly. Cloud services are central for data storage and processing, with potential development of a web dashboard for advanced analytics. Using version control, documentation tools, and collaboration platforms ensures efficient project management. Our choice of Flutter and Dart underscores our aim to deliver a unified, cross-platform user interface for streamlined waste management and recycling operations.





Conclusion:

The efforts invested in meeting our project's diverse software requirements have yielded significant results and conclusions. The successful programming of IoT devices such as Smart Dustbins has enabled seamless connectivity through MQTT or cloud-based IoT platforms, ensuring efficient waste collection and management processes. Similarly, the dedicated programming for the Recycling Machine's microcontroller or PLC, along with control software development, has facilitated the transformation of waste flowers into valuable organic fertilizer through a streamlined and automated process.

The development of our Mobile Application using Flutter and Dart has proven instrumental in integrating various elements such as IoT functionalities, mapping APIs for location-based services, and databases for data management.

This mobile app serves as a user-friendly interface for both waste collection personnel and end-users, enhancing overall efficiency and user experience. The utilization of cloud services for data storage and processing has provided scalability and reliability to our system, ensuring seamless operations even with large datasets. Looking at the bigger picture, the integration of version control systems, documentation tools, and collaboration platforms has promoted effective project management and team coordination. These tools have facilitated seamless communication, task tracking, and code management throughout the development process, leading to timely deliveries and optimized workflows. In conclusion, our strategic technological choices, including Flutter and Dart for mobile app development, have aligned well with our project's objectives of creating a sustainable and efficient waste management system. The results speak to the successful integration of IoT technologies, mobile applications, and cloud services to achieve a holistic solution that addresses environmental concerns while promoting user engagement and operational excellence. This lays a strong foundation for future enhancements and scalability, ensuring long-term success and positive impact in waste management practices.

Scope for future work:

The scope of future work for our project encompasses several exciting avenues for enhancement and expansion. Firstly, we plan to scale up our smart waste management solution by deploying it in more diverse environments beyond ritual places, such as public spaces and commercial areas. This expansion will require the integration of advanced IoT features for real-time monitoring, predictive analytics, and optimization of waste collection routes. Additionally, we aim to enhance the capabilities of our Recycling Machine by incorporating more sophisticated drying and grinding mechanisms, improving the efficiency of organic fertilizer production. Collaborations with local agricultural communities will be sought to maximize the utilization of the produced fertilizer, contributing to sustainable agricultural practices and food security. Furthermore, developing a comprehensive web dashboard for stakeholders to access detailed analytics, trends, and performance metrics will be a priority. This dashboard will provide insights into waste generation patterns, recycling rates, and environmental impact, aiding in decision-making and policy formulation. Exploring opportunities to leverage machine learning and AI algorithms for waste sorting and quality control in the recycling process is another exciting avenue. This can streamline operations, reduce contamination, and improve the overall quality of recycled products. Engaging in continuous research and development efforts to explore new materials for recycling and waste-to-energy conversion technologies will also be part of our future scope. These initiatives align with our commitment to innovation, sustainability, and making a positive impact on both the environment and society.

35. MEDICAL TRAINING USING VIRTUAL REALITY

Project Reference No.: 47S_MTech_0074

College : Ramaiah Institute of Technology, Bengaluru
Branch : Department of Computer Science & Engineering
Guide(s) : Dr. S. Rajarajeswari
Student(S) : Ms. Alisha Ahmed

Keywords: Virtual Reality, Immersive Tech, Medical Education, Simulations Serious Games

Introduction:

Research has shown that people remember 80% of what they see, as the human brain processes visuals more effectively. Virtual Reality (VR) simulations, which are entirely visual and interactive, significantly enhance students' retention and understanding. This project introduces advanced technology into the medical education system, aiming to engage and interest learners across various disciplines.

The virtual medical room is created using specialized 3D modeling software, developed in Unity 3D, and implemented on the Oculus Quest 2, an advanced standalone VR headset.

Medical training typically occurs in real-world settings, which faced disruptions during the pandemic. This application allows individuals to learn at their own pace with guided instructions, enhancing traditional learning methods.

This project not only advances learning methods in the medical field but also promotes the

growth of the rapidly evolving technology of Virtual Reality in the country.

Objectives:

Aiming to explore various innovative, engaging, and interactive ways to implement virtual reality-based supplementary methods in education and growth. Utilizing this emerging technology also educates people on its use and future potential with VR, providing a great way for individuals to virtually connect with their institutions during the pandemic. Specifically for our project, enabling sophomores in the medical field to gain practical, hands-on experience enhances their learning and prepares them more effectively for real-world medical scenarios. Develop a supplementary method to be integrated into the training and education system within the discipline of medical studies. Explore and research the rapidly emerging technology of Virtual Reality. Implement the project to enhance the learning-by-doing approach for outstanding results.

Methodology:

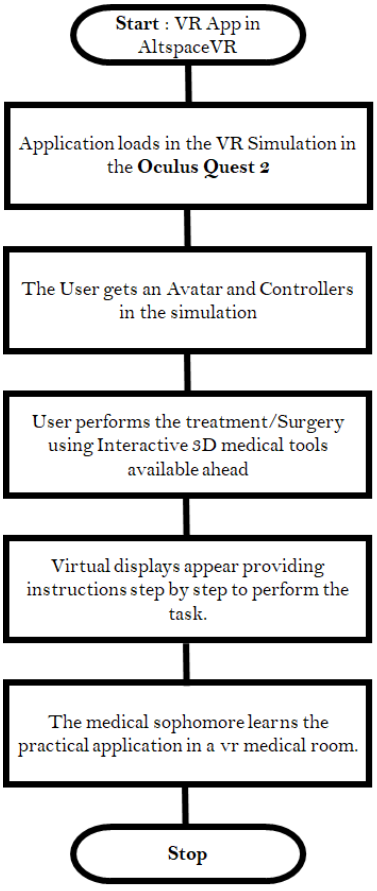


Figure 1: Flow chart of the Project outcome

Requirements:

- PC: Laptop
- OS: Windows
- Device: Oculus Quest 2
- Others: Link Cable
- Design Engine: Unity 3D
- 3D Modeling tools: Blender, 3DS Max, Sketch Up
- Code Editor: Visual Studio/VS Code

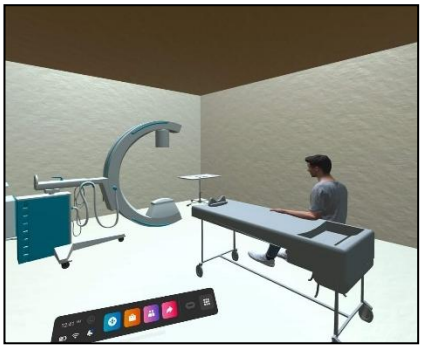
The project development utilizes various technologies such as 3D Modeling, Unity 3D, C#, and several related SDKs and APIs, including Android SDK, Oculus Integration, and ProBuilder, to create a real-time immersive VR simulation. On the hardware side, a standalone VR headset with controllers and link cables is used. The simulation content is developed on a moderately specified PC and deployed to the standalone headset via the link cable. For deployment, a test app is created in the App Lab on the Oculus Developer Portal, providing the application with a unique App ID. The app is then transferred to the VR headset using a compatible link cable, allowing the developed simulation to be experienced in the standalone VR headset (HMD+Controllers).

Conclusion:

This project presents a virtual reality training application for medical students, designed and developed to enhance traditional learning methods and facilitate experiential learning. It provides flexibility and self-learning opportunities for students in remote settings, while also optimizing time, cost, and effort for medical institutions by eliminating the need for physical simulation setups. Research and development indicate that integrating interactive and guided learning-by-doing methods, which offer real-life experiences in personal spaces, has significant potential for further implementation across various disciplines, particularly in medical education.



A 3D environment, encompassing a radiography laboratory with its medical equipment, was created as part of the VR application deployed on an advanced standalone virtual reality headset with controllers. The steps to perform diagnostic tasks were more comprehensible compared to reading theoretical instructions. The entire radiography procedure, including patient diagnosis, execution, and result interpretation, was practiced in a realistic setting, allowing students to engage remotely from their own locations.



Scope for future work:

As part of future work for this project, we can research and implement various medical training concepts, ranging from basic anatomy to advanced surgical procedures, and from clinical disinfection processes to other forms of radiography. This approach offers the potential to combine a wide array of training modules into a single VR application, with each concept having its own tailored simulation. Such an application could encompass the entire educational curriculum of medical institutions, providing an efficient learning method and establishing Virtual Reality as one of the most emerging technologies in medical education.

36.SOLAR POWERED WATER DESAINATION WITH LIVESTOCK WATERING FOR RURAL INDIA

Project Reference No.: 47S_BE_0283

College : S.G Balekundri Institute of Technology,Belagavi
Branch : Department of Computer Science and Engineering
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Student(S) : Mr. Shubham Reddy
Ms. Aishwarya Sulgekar
Mr. Shivaraj Sheelvant
Ms. Syeda Asra Anjum

Keywords: Solar-powered water desalination, Livestock watering system, Rural India, Water and environmental engineering, IoT (Internet of Things) devices, Real-time monitoring, Data analytics, Fault detection mechanisms, Sustainable agriculture, Remote monitoring and control, Renewable energy, Water scarcity, Sustainable development, Web application development, Sensor technology

Introduction:

In rural India, where clean water and sustainable livestock management are imperative for community well-being and environmental harmony, challenges like water scarcity, inadequate infrastructure, and limited resources persistently obstruct effective solutions. Innovative initiatives such as the "Solar Powered-Water Desalination and Livestock Watering System" emerge as promising endeavors, tailored to address the specific needs of rural communities while fostering sustainability. Led by dedicated students from S.G Balekundri Institute of Technology, Belgaum, in collaboration with the Karnataka State Council for Science and Technology (KSCST), this project aims to confront the intertwined challenges of water scarcity and livestock management in rural India. By harnessing solar energy and integrating advanced technologies like IoT devices and data analytics, it endeavors to create a comprehensive solution that not only ensures access to clean water for human and livestock consumption but also advocates for efficient resource utilization and proactive maintenance.

At its core, the project is grounded in a commitment to sustainability, utilizing renewable energy sources to power water desalination processes and IoT-enabled monitoring systems, while also integrating indigenous knowledge for contextual relevance and adaptability. Through

collaborative efforts with local communities, agricultural organizations, and governmental agencies, the project seeks to promote participatory development approaches, empowering rural residents to actively engage in the management of their water resources and livestock. By fostering education, capacity building, and knowledge exchange, the project aims to establish a sustainable ecosystem where rural communities thrive in harmony with their natural surroundings. In summary, the "Solar Powered- Water Desalination and Livestock Watering System" project epitomizes innovation, sustainability, and community empowerment, offering a beacon of hope for a brighter, more sustainable future in rural India.

Objectives:

(a) Develop a solar-powered water desalination and livestock feeding system.
(b) Integrate IoT devices for real-time monitoring of water quality and livestock parameters.
(c) Implement fault detection mechanisms for proactive maintenance. Objective 4: Utilize data analytics tools to identify patterns in water consumption by livestock.
(d) Develop a web application using Django for remote monitoring and control.
(e) Enable automation of the system based on sensor data, optimizing water usage and livestock conditions

Methodology:

System Design: Define the architecture of the solar-powered system considering the integration of various components. Select appropriate IoT devices and sensors based on project requirements and environmental conditions .Design fault detection algorithms to ensure system reliability and performance.

Hardware Implementation: Install solar panels and associated components such as charge controllers and batteries for energy storage. Integrate IoT devices into the water desalination and livestock feeding system for data acquisition and control. Set up sensors including DHT11 sensors for monitoring environmental parameters like temperature and humidity, and turbidity sensors for water quality assessment. Install motors for driving pumps and valves, and carbon filters for water purification.

Software Implementation: Implement IoT communication protocols for seamless interaction between sensors, actuators, and the central control unit. Develop data analytics algorithms to analyze water consumption patterns, detect anomalies, and optimize resource utilization. Create fault detection algorithms to monitor the health of hardware components and identify potential issues proactively.

Web Application Development: Utilize Django framework to develop a user-friendly web application for remote monitoring and control of the system. Integrate data visualization tools such as Power BI to provide real-time insights into system performance and environmental conditions. Implement alerts and notifications for abnormal sensor readings or system malfunctions to ensure timely intervention.

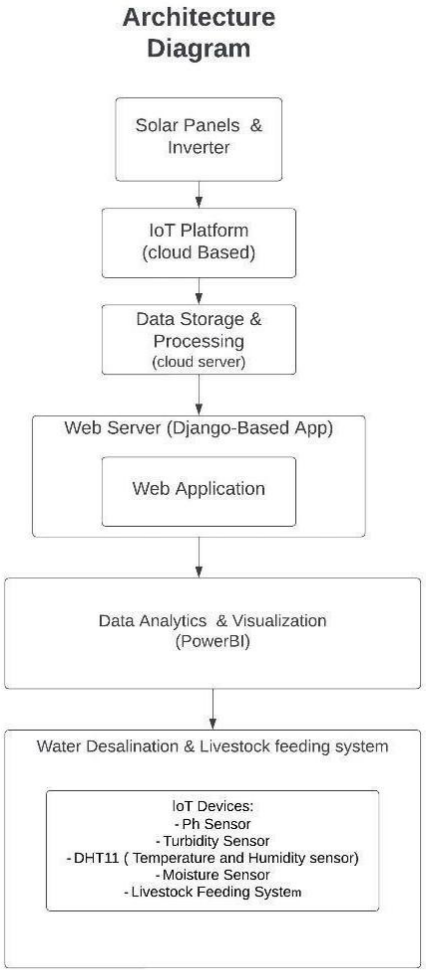


Figure 1: Architecture Diagram

Conclusion:

The "Solar Powered-Water Desalination and Livestock Watering System for Rural India" project is designed to confront the critical challenges of water scarcity and livestock management prevailing in rural areas. It employs a multifaceted approach, integrating solar power, IoT technology, and data analytics to offer sustainable solutions tailored to the unique needs of rural communities. Methodologically, the project adopts a systematic framework, leveraging appropriate hardware components like solar panels, RO filters, motors, sensors, and IoT devices, along with sophisticated software solutions such as web applications and data analytics algorithms.

Upon successful implementation, the project anticipates yielding significant benefits, including real-time monitoring and control of water desalination and livestock feeding systems, optimization of water usage through data analytics insights, proactive detection of faults for maintenance, and enhancement of overall livestock health. Furthermore, the user-friendly web application developed as part of the project will empower stakeholders by providing actionable insights into water quality levels and environmental conditions, thereby facilitating informed decision-making. In conclusion, the proposed project holds immense promise in contributing to the sustainable development of rural communities by alleviating water scarcity, boosting agricultural productivity, and enhancing livestock welfare. Through collaborative efforts and innovative solutions, it aims to make a tangible difference in addressing the pressing challenges faced by rural India, ultimately fostering resilience and prosperity in these regions.

Scope for future work:

In envisioning the future trajectory of the project "Solar Powered Water Desalination for Livestock Watering for Rural India," several avenues for expansion and enhancement emerge. Scalability represents a pivotal aspect, where the project can extend its reach to cater to larger livestock populations or encompass multiple rural communities. Smart integration of irrigation solutions stands as a natural progression, enabling farmers to optimize agricultural practices and enhance crop yields alongside livestock management. Engaging local communities through educational initiatives fosters ownership and sustainability, while continuous research and development endeavors aim to refine system efficiency and reliability. Leveraging advanced data analytics and AI holds promise in fine- tuning predictive capabilities and optimizing resource allocation.

Collaborative partnerships with diverse stakeholders can amplify impact and drive systemic change, supported by advocacy efforts to shape supportive policies and regulations. Facilitating technology transfer and knowledge exchange initiatives ensures the replication of successful models, driving broader adoption and impact across rural landscapes. Through these concerted efforts, the project evolves into a holistic solution, not only mitigating immediate challenges but also contributing to socio-economic development and environmental sustainability on a broader scale, both in rural India and beyond.

37. DRY HAND WASHING MACHINE USING FOG DISINFECTION

Project Reference No.: 47S_MTech_0118

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Keywords: Sanitizer, Soap, virus, Sensor, hygiene, safety, Fog disinfection, Automated sanitizing system, Water conservation, public places, Disinfectant solution, Thorough hand cleaning

Introduction:

An automatic hand sanitizer dispensing machine is automated, non-contact, alcohol-based hand sanitizer dispenser, which finds its use in hospitals, work places, offices, schools and much more. Alcohol is basically a solvent, and also a very good disinfectant when compared to liquid soap or solid soap, also it does not need water to wash off since it is volatile and vaporizes instantly after application to hands. It is also proven that a concentration of >70% alcohol can kill Coronavirus in hands. Here, an ultrasonic sensor senses the hand placed near it, the Arduino uno is used as a microcontroller, which senses the distance and the result is the pump running to pump out the hand sanitizer. Disinfecting our hands from time to time is a very

important factor in fighting the pandemic. But does it actually require so much water to disinfect your hands. Additionally, many people actually end up over washing their hands (over 15- 20 seconds with full tap released). Disinfection actually just requires that water reaches every millimetre of your hand along with a disinfectant or soap and it should be just enough to kill any infection or help it slide out of your hand. When we turn on a tap only 10 – 30%water actually touches our skin and rest just flows over this first layer of water.

Objective:

Our main objective is to prevent infectious diseases like COVID-19 through automated systems as it is said, prevention is better than cure. Disinfection by fogging is a novel and successful technique. Due to the smaller particle size of a fog (which may be regulated with available equipment), it has more flexibility and entry to deeper surfaces. This results in a more thorough and efficient disinfection than spraying liquids, which is why fogging is preferred. It is possible to disinfect vast areas, such as hospitals, nursing homes, quarantine facilities, and isolation centres, by the use of fogging equipment. With the objective of effective disinfection, we bring you the concept of fogging technique.

For the same, an efficient fog generator has been designed by us for disinfection of any surface and inanimate objects. Our machine uses thermal fogging differently it generates vapour of disinfectant liquid on passing with high pressure through a narrow-heated copper pipe. This allows us to achieve our target of inhibition of the transmission of virus from inanimate objects to human beings.

Methodology:

The methodology of the proposed project is summarized in Figure 1. Following the flow diagram, first of all it is necessary to determine the best disinfectant chemical. Since our main goal is to disinfect our hands, there is no substitute for determining the right germ-killing chemical.
Disinfection by fogging efficiently terminates. Here we have chosen disinfectant 70% Isopropyl alcohol with water which will be converted as a fog. As a disinfectant, Isopropyl Alcohol is the most often encountered and extensively employed in the pharmaceutical industry as well as hospitals, cleanrooms, and the manufacture of electronic or medical equipment. And later in 2nd step, it is necessary to make the electronic circuit for the production of fog from the disinfectant liquid. We will make the fogger circuit that converts liquid into fog water vapour with Sonar sensor, ATmega328P, relay. We have used 113 KHz piezoelectric disc to create the fogger circuit.

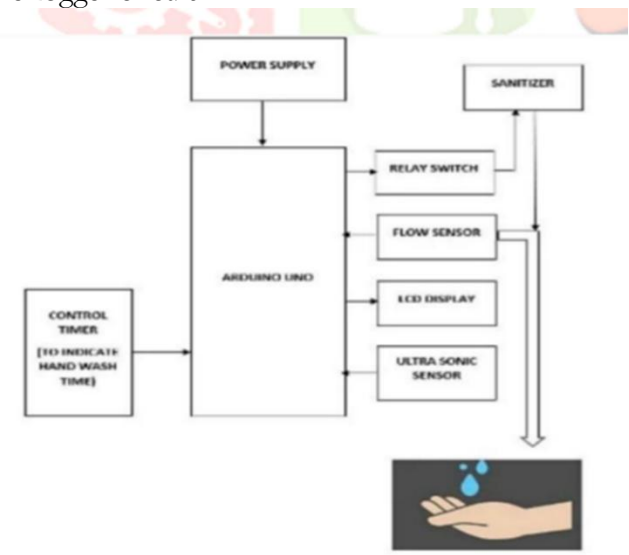


Figure 1: Block diagram

Using a fog-based mechanism, our technology advances to a new level to enable even greater water savings. A tank is attached to the machine beneath it. If necessary, the tank is filled with water and any safe herbal sanitizing liquid. A water fogging system is unintentionally activated when a user applies soap to their hands and inserts them into the device, turning the water in the tank into fog and propelling it into the handwashing chamber. Now that fog is in a vapour state, it may cover the entire hand in less than 5 seconds (water vapour). The soap on a user's hand gets washed away with the fog five to fifteen seconds after being exposed to water fog. This calls for little effort.

Results and conclusion:

Implementing of Contactless Automatic Hand Wash Dispenser for Sanitation is efficient and the cost price is minimized. It works like the normal contactless automatic machine. The human gets the limited sanitizer liquid for sanitation in hand, to wash the hands and to protect themselves from the viral disease. This system can be utilized

in malls, high populated areas. The economic cost of the seminar, it will be better quality when considering the life of the system and the seminar. The most goal of this seminar was to use current advanced technologies to develop an Automatic hand sanitizing machine to improve hygiene and prevent the infectious viruses entering our body. Automatic hand sanitizers are priced less when compared to any other hand sanitizing tools or dispensers. At the same time, it is environment friendly as because the disposable wastage is very minimal, since it can be refilled easily without any technical assistance. These automatic hand sanitizer machines are developed keeping in mind about its affordability by underprivileged sections of the society as it can be purchased by lower income groups in pursuit of their wellbeing and also, they are easily available and can be used by everyone without any hassle.

Scope for future:

The future scope for a dry hand washing machine using fog disinfectant using Arduino is quite promising. With the increasing concern for water conservation and the need for effective hand sanitization, especially in public places, this innovative technology has the potential to make a significant impact.

One potential area of growth is in the development of more advanced fog disinfectant systems that can be integrated with Arduino. This could include the creation of more efficient and effective fogging mechanisms, as well as the development of new disinfectant formulas that are safe for human skin and the environment.

Another area of scope is in the expansion of this technology to various industries, such as healthcare, hospitality, and education. Imagine having dry hand washing machines in hospitals, schools, and public restrooms, providing a convenient and water-efficient way to maintain hand hygiene.

Additionally, the use of Arduino in these machines opens up possibilities for IoT integration, allowing for real-time monitoring and data analysis of hand sanitization patterns. This could lead to valuable insights on how to improve hand hygiene practices and reduce the spread of diseases.

Furthermore, the dry hand washing machine using fog disinfectant could also be designed to be portable and compact, making it ideal for use in remote or disaster-stricken areas where access to clean water is limited. Overall, the future scope for this technology is vast, and with continued innovation and development, it has the potential to make a significant impact on public health and water conservation. To improve the efficiency of the fog disinfectant system for dry hand washing machines using Arduino, several aspects can be optimized.

Innovation in the project:

The dry hand washing machine using fog disinfection with Arduino is innovative due to its fog-based disinfection system, which saves over 95% of water compared to traditional tap-based hand washing. This system uses a fog maker to convert water and a safe herbal disinfectant liquid into a fog, which is then driven into the handwash chamber. This allows for efficient and thorough disinfection of hands in less than 5 seconds. Additionally, the machine has a controller system that allows for manual settings such as the time for which the machine drives the fog for each user. This makes it special and more efficient compared to traditional hand washing methods, as it effectively washes hands while significantly saving water.

38. MYOELECTRIC TRANSRADIAL PROSTHETIC ARM FOR UPPER LIMB DISARTICULATION TO SUPPORT DISABLED REHABILITATION

Project Reference No.: 47S_BE_3819

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Keywords: Prosthetic arm, Myoelectric, Amputation, measure muscle contraction

Introduction

A prosthetic arm is an artificial device that is designed to replace a missing or damaged arm. It is typically made of lightweight materials such as plastic or carbon fibre, and it may be operated by electronic, mechanical, or myoelectric means.

Prosthetic arms can come in many different shapes and sizes, depending on the needs of the user. Some models are designed to mimic the natural movements of the human arm, while others are more basic and intended for simple tasks. A prosthetic arm is a highly engineered and customized artificial limb designed to replace a missing or amputated upper limb, typically from the shoulder down to the hand or wrist. These remarkable devices have been developed to assist individuals who have lost their arms due to various reasons, including congenital conditions, traumatic injuries, or medical amputations. Prosthetic arms are designed not only to restore physical functionality but also to improve the quality of life, mobility, and independence for individuals with limb loss.

Objectives:

1. To Develop a 3D Printed Myoelectric Prosthetic Arm to Control Hand Movements. This is achieved by utilising myoelectric sensor (muscle sensor), arduino microcontroller and servo motors to control hand movements. And also, to deploy a deep neural network on the micro-controller for real-time bionic arm control. Where it uses a 2D Convolutional Neural Network (CNN) as EMG pattern recognition algorithm.
2. To Develop a Console Application to Measure the arm dimensions. This is achieved by using PyCharm and python applications with CVzone interpreter.

Methodology:

The controlling of prosthetic arm is based on Electromyography sensor module, which is controlled by another hand by wearing the band.

1. Electromyography sensor will detect the moment of the muscle and produce the value of resistance depending on the EMG signal received on the sensor.
2. This produced signal will feed to the micro-controller which transfer the value to the receiver using transmitter.
3. The signal from the receiver is feed to another micro-controller which is controlling prosthetic arm, the controller will convert the received value to the pules for angle of rotation of servo motor.
4. The servo motor will rotate at angle of 90º and these servo motors are connected to the fingers of prosthetic arm using the fishing wires.

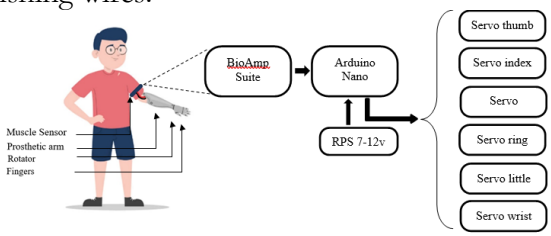


Figure1: Methodology of Prosthetic arm

Conclusion:

Based on the objectives planned, the outcomes are achieved;

In conclusion, Myoelectric prosthetic arms have the potential to significantly improve the lives of transradial amputees. The Accuracy of the objective 1 which is development of transradial Myoelectric prosthetic arms has a 100% accuracy. As technology continues to advance, we can expect to see further improvements in these devices, including greater dexterity, improved sensory feedback, increased integration with other wearable devices, and greater durability and longevity. The continued development of Myoelectric prosthetic arms is also likely to have a positive impact on the mental health. Despite the many advancements in Myoelectric prosthetic arms, there are still many challenges that must be overcome, including cost, accessibility, and the need for continued research and development.

We built the Application which measures the real time length and width of the human hand and arm using CVZone and PyCharm. The Accuracy of the Objective 1 isaround 90-100% for video capturing and 100% accuracy on photo. Using this user can able to measure their Length and width of their hand or arm using their smart phone anywhere. This makes amputees more comfortable to give their arm measurement using their smart phone before going to adoption of prosthetic arm which reduce the time for manufacturing of Prosthetic arm.

Future Scope of Improvement:

The future scope of our development is as followed below;

- Force and Tactile sensor can be used for better grip.

- Integration of AI for classification and identification of different objects which improves grasping power.
- Individual finger actuation can be done.
- The battery can be upgraded to increase the battery life of the model.

39. AUTONOMOUS ROVER FOR MAPPING AND OBJECT DETECTION

Project Reference No.: 47S_BE_3540

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Mr. Shreyas N. Sastry
Mr. Shiva Chaubey

Keywords: Rover, Object detection, LiDar, obstacle avoidance system

Introduction:

In this comprehensive project, we aim to enhance an obstacle avoidance system built on a 4-wheel chassis, leveraging a combination of Arduino, Raspberry Pi 3B, TensorFlow Lite, and RP LiDAR A1. The integration of these components creates a sophisticated robotic system capable of intelligent decision-making, object detection, and continuous two- dimensional mapping. The foundational obstacle avoidance system relies on Arduino, employing a servo motor-mounted ultrasonic sensor for real-time detection of obstacles in the robot's path, which was carried out earlier. This simple and cost-effective solution provides the initial layer of navigation, ensuring the robot can maneuver in dynamic environments by avoiding collisions. To elevate the system's capabilities, we introduce the Raspberry Pi 3B, serving as the brain of the operation. Connected to a USB camera, the Raspberry Pi utilizes the TensorFlow Lite library in Python for object detection and recognition. This addition enables the robot to identify and categorize objects in its surroundings, enhancing its ability to make informed decisions based on the visual input.

Objectives:

1. Enhance a 4-wheel chassis obstacle avoidance system by integrating advanced technologies.
2. Utilize Raspberry Pi for processing power to analyze complex data streams and execute intelligent responses in dynamic environments.
3. Integrate TensorFlow Lite to enable high-level object detection and recognition tasks for precise and accurate identification and categorization of objects in the robot's vicinity.
4. Incorporate RP LiDAR A1 to facilitate continuous spatial mapping, allowing the robot to build and update detailed maps of its surroundings in real-time.
5. Develop a sophisticated robotic system capable of real-time decision-making and advanced object detection.
6. Create a versatile robotic platform with applications in various fields, including autonomous navigation and advanced robotic operations.
7. Achieve seamless integration of Raspberry Pi, TensorFlow Lite, and RP LiDAR A1 to enhance the overall functionality and performance of the robotic system.

Methodology:

The proposed methodology involves initially setting up a 4-wheel chassis with Arduino for basic obstacle avoidance, incorporating a rotating ultrasonic sensor. The Raspberry Pi 3B is integrated, connecting to the Arduino for centralized processing, and a USB camera is added for visual input. Object detection using TensorFlow Lite on the Raspberry Pi is implemented, trained for common warehouse objects. Continuous mapping is achieved through RP LiDAR A1 integrated with ROS Noetic. A decision-making algorithm is designed to incorporate inputs from ultrasonic sensors, object detection, and LiDAR mapping. A comparative

study assesses RP LiDAR against traditional ultrasonic sensors. Following integration and testing, optimization focuses on refining sensor fusion and system performance. Documentation encompasses the hardware setup, software architecture, and a comprehensive report detailing the methodology, experimental results, and insights. Future enhancements are discussed, including additional sensors or machine learning models for scalability and adaptability in diverse warehouse environments.



Figure 1: LiDar Output

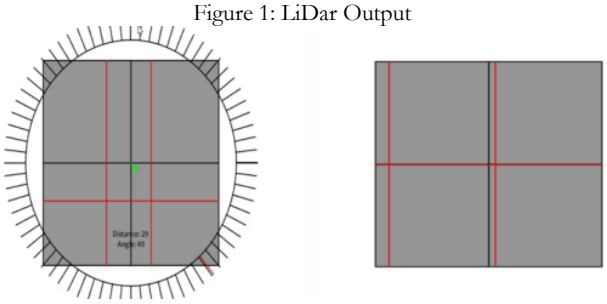


Figure 2: UltraSonic Map Output

Conclusion:

The successful implementation of this project results in a fully functional Rover-Base Station system that is capable of autonomously navigating, mapping its environment, and securely transmitting data to a Base Station for further processing and visualization. The project demonstrates effective communication, testing, and iteration throughout its development, leading to the achievement of the desired objectives.

Scope for future work:

1. Design and 3D print a chassis specifically for the LiDAR system to ensure optimal placement and protection.
2. Develop more sophisticated mapping algorithms to improve both ultrasonic and LiDAR-based maps, enhancing the rover's spatial awareness and navigation accuracy.
3. Integrate advanced object detection capabilities using cutting-edge technologies to increase the precision and reliability of identifying and categorizing objects in the rover's environment.
4. These advancements will contribute to creating a more robust and efficient autonomous system capable of superior real-time decision-making and detailed environmental mapping.

40. SEWAGE PIPE CRAWLING ROBOT

Project Reference No.: 47S_BE_3922

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Student(S) : *Mr. Ranjan*
Mr. Nisar Ahmed
Mr. Abhijith M. Naik
Mr. Adithya Bhat

Keywords: Crawling robot, Sewage pipe, brushing mechanism

Introduction:

Pipeline cleaning robot is used to clean the interior of the pipes using a brushing mechanism. One of the critical areas of the oil and gas industry is the transport of oil and other fluids through a network of pipes. Over time these pipes have accumulated amount of slug and other deposits, this leads to decrease in pipeline carrying capacity, reduced reliability, loss of power due to higher pumping pressure required and irregular flow. In the light of the problems mentioned above we have decided to attempt to solve this problem using our project. This will not only clean the interior of the pipe but also be able to send live video feedback to the personnel on the ground depicting the kind of residues found in the pipes. The robot can also be added with additional sensors to relay any other critical information. A pipe inspection robot is device that is inserted into pipes to check for obstruction or damage. These robots are traditionally manufactured offshore, are extremely expensive, and are often not adequately supported in the event or malfunction. This had resulted in associated environmental services limited. Inspection robots are used in many fields of industry. One application is monitoring the inside of the pipes and channels, recognizing and solving problems through the interior of pipes or channels.

Automated inspection of the inner surface of a pipe can be achieved by a mobile robot.

Objectives:

- To construct a machine that is easy to use and movements of parts occur smoothly.
- To build a device that is durable as it should be free from rust.
- To build a machine that is safe in all aspects as it does not harm the interior of the drainage system.
- To make our project user friendly and eco-friendly.
- Handling the machine should be easy.

Methodology:

1. Robot Design and Construction: The first step is to design and construct the pipeline cleaning robot. This involves selecting the appropriate size, shape, and materials to ensure compatibility with the pipeline being cleaned. The robot should be equipped with necessary cleaning tools, sensors, and cameras to perform its tasks effectively.
2. Navigation and Propulsion: Pipeline cleaning robots need to navigate through the pipeline system autonomously or under remote control. They are equipped with propulsion mechanisms such as wheels, tracks, or even crawling mechanisms to move through the pipeline. Navigation systems may utilize sensors, cameras, or mapping technologies to help the robot navigate and identify its location within the pipeline.
3. Cleaning Mechanism: Pipeline cleaning robots use various cleaning mechanisms depending on the type of deposits or contaminants they are designed to remove. Some common cleaning mechanisms include brushes, scrapers, water jets, vacuum suction, or high-pressure air systems. These mechanisms are designed to effectively dislodge and remove debris, sediment, scale, or other contaminants from the pipeline walls.
4. Sensing and Inspection: Pipeline cleaning robots often incorporate sensors and cameras to monitor and inspect the pipeline's condition. These sensors may include proximity sensors, pressure sensors, or corrosion sensors to detect abnormalities or damage in the pipeline. Cameras and imaging systems provide visual inspection capabilities, allowing the robot to identify cracks, leaks, or other structural issues.
5. Data Collection and Analysis: The robot collects data during the cleaning and inspection process. This data includes information on cleaning progress, pipeline conditions, and any detected anomalies. The collected data can be analyzed in real-time or later to assess the pipeline's integrity, identify maintenance needs, or generate reports for further action.
6. Communication and Control: Pipeline cleaning robots may require communication capabilities to receive commands, transmit data, or provide status updates. This can be achieved through wired connections or wireless communication protocols. Remote control systems or autonomous algorithms enable operators to control the robot's movements and cleaning processes.
7. Maintenance and Upkeep: Regular maintenance and upkeep are necessary to ensure the pipeline cleaning robot's optimal performance. This includes cleaning and maintenance of the robot itself, such as cleaning the brushes, replacing worn-out parts, or calibrating sensors. The robot's cleaning tools or attachments may need to be replaced or adjusted depending on the pipeline's specific requirements.

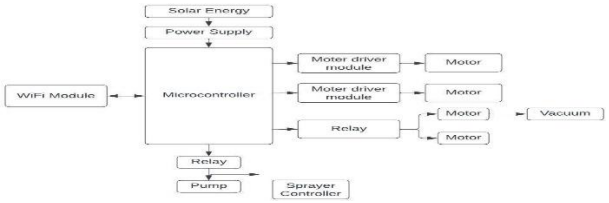


Figure 1: Block Diagram of Pipe Inspecting and cleaning Robot

Result and Conclusion

In the initial phases of our sewage pipe crawling robot project, significant progress has been made, primarily focusing on the development of a comprehensive 3D model using SolidWorks. This intricate model encapsulates the physical structure of the robot, providing a detailed blueprint for the subsequent stages of the project.

Additionally, we have successfully integrated ultrasonic sensors into the design, a crucial component for obstacle detection within the challenging sewage pipe environment. This integration lays the foundation for the robot's ability to navigate through the pipes effectively. Furthermore, a meticulous identification and compilation of the required components have been carried out. This includes motors, actuators, and control units, forming the basis for the upcoming stages of hardware implementation. The completion of these tasks underscores the initial milestones achieved in the project.

41. EFFICIENT SPRAYING MACHINE FOR OPTIMISING ARECANUT ORCHARD MANAGEMENT

Project Reference No.: 47S_BE_0325

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Mr. Harshith Bekal
Mr. Ravi Kiran V. K.

Keywords: Wireless communication, cost-effective spraying machine, Arecanut orchard management

Introduction:

Nowadays Lack of labour has become one of farming's biggest issues. The arecanut is one crop that has been particularly impacted by this. The inhabitants in rural parts of south India like Karnataka and Kerala mostly depend on agriculture for their livelihood.

Skilled workers must manually climb the tree in order to harvest, spray, and apply pesticides to the crown. Although this procedure appears simple, it is a difficult and risky undertaking. Areca nut trees grow to be between 40 and 50 feet tall.

They have to use their strength to climb the trees. A laborer must climb at least 100 to 150 trees in an acre with 550 trees. Because of the extreme physical strain involved, younger laborers are becoming withdrawn in this, which might have a detrimental impact on the production of areca nuts. A product that addresses effectiveness, safety, and affordability must be created

Objectives:

- The goal of this project is to design a most suitable, low cost yet efficient machine for spraying pesticide to the arecanut.
- The machine can attach and remove from the tree easily. It should operate on battery and climbs the required height quickly.
- A solenoid valve is used to stop or resume the flow of pesticide. After spraying is done it should smoothly descend the tree. Most of the functions of the machine are going to controlled by remote.

Methodology:

The basic climbing mechanism consists of the wheels which are arranged on V shape chassis. Where two wheels are driven by a dc motor, and the third wheel is placed to maintain the grip on the surface. The chassis is used to mount the spraying and climbing assembly. The spraying assembly consist of solenoid and nozzle mounted on the spraying arm.

ESP-WROOM-32 module is used for remote controlling purpose which is used to control the Drive wheel motors, braking assembly. A local server is created where the mobile sends the signal to the esp32 module relay. The communication link can be established with a range of 50-150m using ESP32.

A pressure pump is connected to the solenoid which sends the fluid up the tree. The wheel can be turned in clockwise and anticlockwise direction which can be controlled using a mobile web application. The controller sends a command, that controls the nozzle, the pesticide flows through the pressure pump and solenoid, starting the spraying mechanism. The arecanut is treated with the sufficient quantity of pesticide.

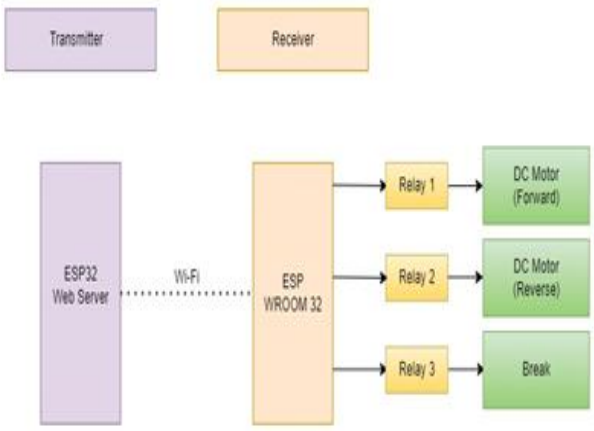


Figure 1: Remote Controlling

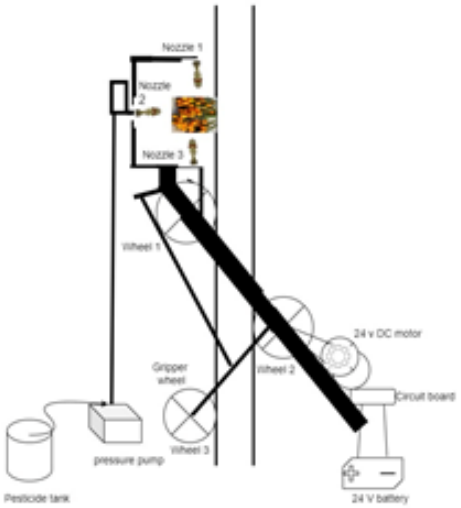


Figure 2: Overview of Arecanut Machine

Conclusion:

The goal of this project is to design a most suitable, low cost yet efficient machine for spraying pesticide to the arecanut. The labor-intensive technique of gathering arecanuts was made easier with the invention of the arecanut tree climbing machine. For farmers, scaling these tall trees has always presented serious difficulties and dangers. With this machine's adjustable grips and straps, farmers can easily climb and descend arecanut trees

The machine can attach and remove from the tree easily. It should operate on battery and climbs the required height quickly. A solenoid valve is used to stop or resume the flow of pesticide. After spraying is done it should smoothly descend the tree. Most of the functions of the machine are going to controlled by remote.

Scope for future work:

(a) Flight through narrow gaps: Previous works addressing quadrotor flight through narrow gaps have shown at an aggressive maneuver is required to align the vehicle with the gaps orientation to avoid collisions. Flight through arbitrarily shaped gaps using monocular vision has also been shown. In all those works, the gap has been large enough to let the vehicle pass through

(b) Close proximity surface Inspection: The supplementary images show the results of an experiment highlighting the benefits of the T configuration against X morphology for surface inspection

(c) Object Grasping and Transportation: The drone can close its arms around objects to grasp and transport them. Although this strategy cannot replace specialized and effector.

42. SONIC FUSION: ADVANCED HEARING AID WITH A PIEZOELECTRIC TRANSDUCER FOR BONE CONDUCTION

Project Reference No.: 47S_BE_0328

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Branch : Department of Electronics and Communication Engineering
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Student(S) : Mr. Dhyan Rai M.
Ms. Sanjana K. C.
Mr. Keerthan I. Naik

Keywords: Bone conduction hearing aids, Skin erosion, non-surgical device, Piezoelectric element modification.

Introduction:

The invention presents a bone conduction device that translates received acoustic signals into mechanical force for the recipient's skull. It comprises a multilayer piezoelectric element with two stacked layers separated by a flexible passive layer. The piezoelectric layers, polarized oppositely, deflect in a unified direction upon receiving electric signals from sound. A mass component attached to the piezoelectric element responds to its deformation. A coupling connects the device to the recipient, facilitating the transfer of mechanical forces to the skull. The device's key components include the multilayer piezoelectric element, the attached mass component, and the coupling mechanism. Through these elements, the device efficiently converts acoustic signals into mechanical vibrations, enabling bone conduction for auditory perception.

Objectives:

Development of an innovative non-surgical bone conduction hearing device that eliminates the need for close contact with the skull skin, addressing issues of skin erosion and

discomfort associated with traditional bone conduction hearing aids.

The goal is to provide a comfortable and effective alternative for individuals with conductive hearing loss, without the necessity for surgical intervention, ultimately enhancing the quality of life for users.

Cartilage implantation is not a standard term in the context of hearing aids, and it's more likely associated with reconstructive surgery. On the other hand, Fusion Sonic in hearing aids is a recognized technology designed to help individuals with specific types of hearing loss by transmitting sound through bone vibrations

Methodology:

The methodology employed in this study involved investigating the functionality of bone conduction hearing aids as an alternative when the traditional pathway of sound transmission to the eardrum is compromised. Specifically, we harnessed the inherent conductive properties of bone to directly stimulate cochlear sensory cells, bypassing the damaged outer and middle ear components.

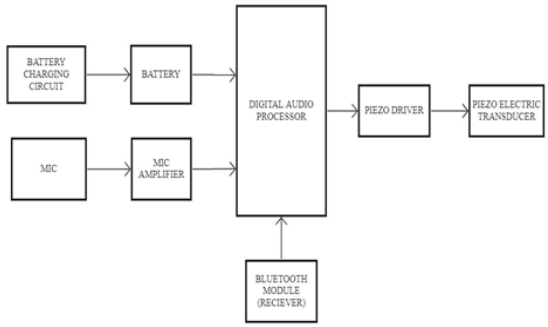


Figure 1: Block Diagram of Sonic Fusion

Our experimental device integrated a single-module system comprising a microphone, processor, and piezoelectric transducer. The microphone captured ambient sound, converting it into an electric signal transmitted to the processor. Subsequently, the processed and amplified sound activated the piezoelectric transducer, strategically placed against the mastoid bone. This essentially emulates a speaker, with its membrane substituted by a plate that responds to variations in electric current. Through this comprehensive approach, we aimed to evaluate the efficacy of this bone conduction methodology in transmitting sound directly to the cochlea, thereby providing insights into its potential as a viable hearing aid solution.

Conclusion:

The anticipated outcomes of this project involve the implementation of a novel bone-conduction system in headband to enhance noise reduction and speech signal magnification. the study aims to analyze the frequency responses of the proposed system and model a combinatorial approach for sound transfer. The expected results include effective neutralization of ambient noise through anti-phase cancellation and amplification of incoming speech signals using in-phase signals.

The efficacy of the devices is expected to be influenced by factors such as the quality of contact with the bone, the thickness of overlying skin, and the pressure exerted by the device on the bone.

The outcomes may pave the way for the integration of such technology into mainstream mobile devices, addressing a significant need in the communication technology industry.

Scope for future work:

- Improve durability for long-term reliability
- Optimize frequency response for clearer sound quality.
- Enhance battery life through energy-efficient piezoelectric materials

43. ADVANCED IOT AND MACHINE LEARNING SOLUTIONS TO MONITOR UNDERPASS WATER LOGGING

Project Reference No.: 47S_BE_1584

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Keywords: IoT, Underpass water logging, cloud computing, automation, and machine learning

Introduction:

In today's rapidly evolving technological landscape, ensuring road safety and public awareness has become increasingly paramount. To address this, innovative solutions leveraging advanced technologies such as Internet of Things

(IoT), cloud computing, automation, and machine learning are being explored and implemented. One critical aspect of road safety is regulating the types of vehicles permitted to traverse certain routes. To address this, a system is proposed to display alert information to road users regarding the types of vehicles allowed to pass through specific areas. This system aims to mitigate the risk of accidents and congestion by providing real-time guidance to drivers, ensuring compliance with regulatory restrictions.

By utilizing the scalability and accessibility of cloud platforms, timely dissemination of crucial information regarding road conditions, hazards, and emergencies can be achieved. This approach enhances public safety by providing individuals with up-to-date information, enabling them to make informed decisions while navigating roads and highways. Water accumulation on roads due to rainfall or flooding poses significant hazards to both motorists and pedestrians. To address this challenge, an automated water removal system utilizing water pumps is proposed. This system aims to efficiently clear collected water from roadways, thereby reducing the risk of accidents, hydroplaning, and infrastructure damage. By automating the water removal process, response times can be minimized, ensuring the safety and accessibility of roadways during inclement weather conditions.

Objectives:

(a) To display alert information to the road user which type of vehicle can pass in a system alerts road users about permitted vehicle types in specific areas, enhancing compliance and reducing accidents. Real-time guidance ensures adherence to regulatory restrictions, promoting safer and smoother traffic flow.

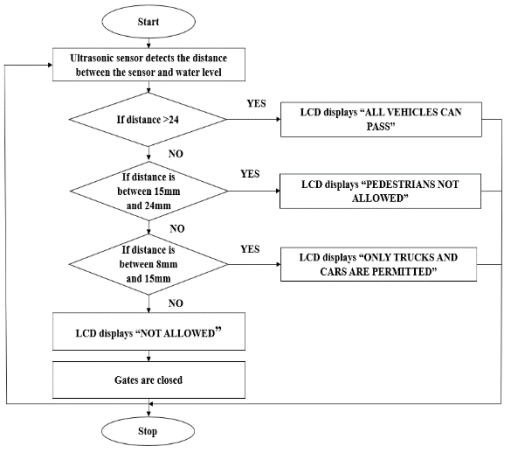
(b) To upload warning messages to the cloud and make the status available to the public. Warning messages are uploaded to the cloud for public access, ensuring real-time dissemination of crucial road information. Cloud-based status updates enable informed decision-making and enhance overall road safety awareness.

(c) To remove the collected water automatically using water pump. Automated water pumps efficiently clear collected water from roadways, reducing hydroplaning risks and ensuring safer travel. This automated system minimizes response times, enhancing road accessibility during inclement weather conditions.

(d) To detect the human beings in underpass flood area using YOLO algorithm (Machine learning). The YOLO algorithm detects human presence in underpass flood areas, aiding in timely rescue efforts and ensuring safety. Utilizing machine learning, it enhances flood response by swiftly identifying individuals in critical situations.

Methodology:

Objective 1 To display alert information to the road user which type of vehicle can pass in



The figure 1 shows the flowchart to display alert information to the road user which type of vehicle can pass in. The system described integrates multiple sensors and output devices to manage water levels in an underpass. An Arduino Mega serves as the central control unit, receiving input from a Ultrasonic sensor. The water level sensor, initialized as an analog input, measures the distance between water and sensor, ensuring non-negative readings. Should the sensor output zero, indicating a lack of data or malfunction, the system loops back to collect accurate measurements. Based on the water level data, the Arduino Mega determines the underpass status. If the distance between water and sensor is 24 mm, the LCD display indicates all vehicles can pass. If it's between 15 and 24 mm,

pedestrians are barred. For distances ranging from 8 to 15 mm, only trucks and cars are permitted, while anything less than 8 mm prohibits all vehicle traffic and gates is closed.

Objective 2 To upload warning messages to the cloud and make the status available to the public.

Set up a Telegram bot through BotFather on the Telegram platform and obtain the API token. BotFather will guide you through the process of creating a new bot and provide you with a unique API token. This token will serve as the authentication key for your bot when communicating with the Telegram API. Arduino code is written to read Ultrasonic sensor data. code is implemented to establish communication with the Arduino Mega receive sensor data, and then use the Telegram API to send this data to your Telegram bot.set up the NodeMCU to connect to Wi-Fi. Define the SSID and password of your Wi-Fi network in the NodeMCU code. Then, implement code to connect to the Wi-Fi network using the provided credentials. and the messages is sent.

Objective 3 To remove collected water automatically using water pump

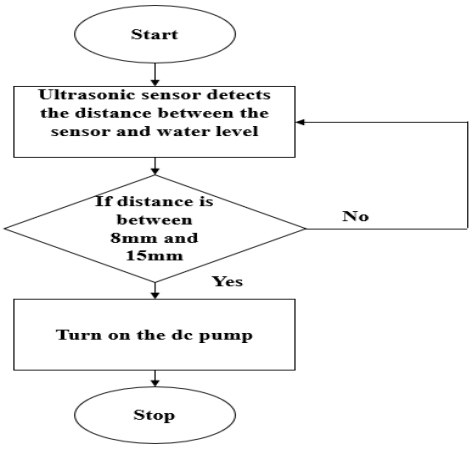


Figure 2 Flow chart to remove collected water automatically using water pump

The figure 2 shows flow chart to remove collected water automatically using water pump. When the water level exceeds the threshold, a DC pump activates instantly. A relay serves as the switch for the pump, toggling its operation. This setup enables efficient management of water levels, ensuring timely activation of the pump to mitigate flood risks and prevent damage in affected areas.

Objective 4 To detect the human beings in underpass flood area using YOLO algorithm (Machine learning).

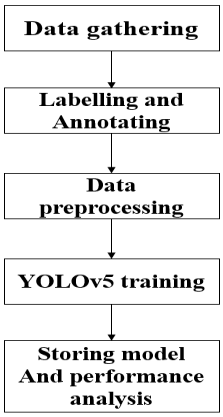


Figure 3 Flow chart for creating a trained model

The figure 3 shows the block diagram for creating a trained model. The process begins with data gathering, labeling, and annotating, followed by preprocessing using Roboflow to ensure data consistency and quality.

YOLOv5 training is then conducted to develop a robust model for object detection.

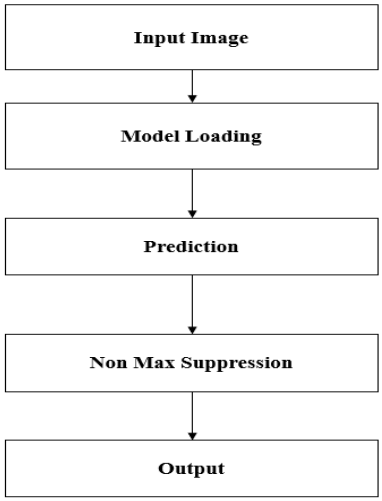


Figure 4 Flow chart for testing the model

The trained model is stored for future use. Performance analysis is subsequently carried out using Google Colab, enabling thorough evaluation of the model's accuracy and effectiveness in detecting human presence in underpass flood areas. This comprehensive approach ensures the reliability and efficiency of the system in providing

timely alerts and facilitating proactive responses to potential hazards.

The figure 4 shows the block diagram for testing the model. In the live detection process, input images captured from a camera are fed into the trained model for prediction. The model compares the input image with its learned features to identify human presence. Non-maximum suppression is then applied to refine the detection results. If a human is detected, an immediate rescue ladder is deployed, and a message containing the detected location is transmitted to the rescue team. This technical workflow ensures efficient real-time detection of humans in flood-prone areas, enabling swift rescue operations and enhancing overall emergency response capabilities.

Conclusion:

The integrated system presented offers a multifaceted approach to improving road safety and public awareness during flood events. By combining alert systems for motorists, cloud-based warning dissemination, automated water removal mechanisms, and advanced human detection algorithms, it effectively mitigates flood risks, enhances traffic management, and ensures timely responses to potential hazards. This comprehensive solution underscores the importance of leveraging technology to safeguard public safety and mitigate the adverse impacts of inclement weather conditions on road infrastructure and user welfare. Further research and implementation of such systems hold promise for bolstering resilience and emergency preparedness in the face of natural disasters.

Scope for future work:

The future scope of the underpass waterlogging project includes further advancements in automation and machine learning algorithms for improved flood detection and response. Integration with smart city infrastructure could enable proactive measures such as preemptive road closures based on predictive analytics. Collaborations with weather forecasting agencies may enhance the accuracy of real-time alerts, minimizing the impact of extreme weather events. Implementation of sensor networks could provide granular data for better flood monitoring and management. Additionally, exploring renewable energy sources to power water removal systems can enhance sustainability. Augmented reality interfaces for drivers could offer intuitive navigation during flooded conditions. Public-private partnerships may accelerate innovation and deployment, fostering a more resilient urban infrastructure. Continued research into materials and designs for flood-resistant underpasses can enhance long-term durability. Community engagement initiatives can raise awareness and promote citizen participation in flood response efforts. Overall, the project's future lies in embracing emerging technologies and collaborative approaches to create safer and more resilient urban environments.

44. MANUFACTURING OF ECO-FRIENDLY PAINT FROM COW DUNG

Project Reference No.: 47S_BE_3770

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Keywords: Manufacturing, cow dung paint, Eco-friendly paint, Antibacterial, Antifungal, Affordable paint, Sustainable living, Synthetic chemicals, Modern emulsion paint

Introduction:

Cow dung paint is an innovative, eco-friendly, and cost-effective product derived from the ancient practice of using cow dung to coat the floors and ceilings of homes. Historically, cow dung has been valued for its insulating properties, antibacterial and antifungal characteristics, and its role in sustainable living. The Khadi and Village Industries Commission (KVIC) has adapted this tradition into a modern emulsion paint, aiming to boost farmers' incomes, promote sustainable livelihoods, and provide the public with affordable, high-quality paint.

Objectives:

1. Develop an Optimized Manufacturing Process: Design an efficient production line that minimizes costs and maximizes output. Implement quality control measures to ensure

consistent product quality Investigate methods to improve the paint's durability, washability, and shelf life.

2. Produce Eco-Friendly Paint Free from Harmful Chemicals: Formulate a paint that avoids synthetic chemicals and additives.
   - Ensure the paint meets environmental safety standards and certifications.
   - Highlight the antibacterial and antifungal properties inherent in cow dung.
3. Promote Sustainable and Renewable Practices:
   - Source raw materials locally to support the agricultural community.
   - Utilize renewable resources, reducing the environmental impact.
   - Educate consumers about the benefits of using eco-friendly paint.

Result and Conclusion:

The cow dung paint project blends traditional wisdom with modern science to create an eco-friendly, sustainable product. By optimizing the manufacturing process and promoting the environmental and economic benefits of cow dung paint, the project aims to provide a viable alternative to conventional paints. This initiative not only supports rural economies and promotes sustainable practices but also offers consumers a high-quality, affordable, and environmentally responsible product.

- Aim/Innovation:

The aim of this project is to develop and commercialize an eco-friendly, cost-effective cow dung-based emulsion paint that leverages traditional practices and modern innovations.

- Scope:

1. Research and Development:
   - Conduct a comprehensive literature review to understand the properties and potential applications of cow dung in paint formulation.
   - Investigate various additives, binders, and natural pigments to enhance the durability, washability, and color range of cow dung-based paint.
   - Explore different manufacturing processes and equipment suitable for large-scale production while optimizing cost-effectiveness and efficiency.
2. Formulation and Testing:
   - Experiment with different ratios of cow dung, binders, and additives to achieve the desired paint consistency, coverage, and drying time.
   - Conduct laboratory tests to assess the paint's performance in terms of adhesion, weather resistance, antibacterial, and antifungal properties.
   - Collaborate with environmental engineering and microbiology departments to evaluate the paint's eco-friendliness and safety standards.
3. Prototype Development:
   - Develop prototypes of cow dung-based paint formulations in small batches for initial testing and feedback.
   - Design and fabricate prototype manufacturing equipment and production line setups to simulate large-scale production processes.
   - Conduct pilot-scale production trials to validate the feasibility and scalability of the manufacturing process.
4. Optimization and Scale-Up:
   - Analyze data from prototype testing and production trials to identify areas for optimization in formulation, production processes, and quality control.
   - Refine the manufacturing process to improve efficiency, reduce waste, and ensure consistency in product quality.
   - Scale up production capacity gradually while monitoring performance metrics and addressing any technical or logistical challenges.
5. Economic and Environmental Assessment:
   - Conduct a cost-benefit analysis to evaluate the economic viability and market competitiveness of cow dung-based paint compared to conventional paints.
   - Assess the environmental impact of the entire product lifecycle, including raw material sourcing, manufacturing, application, and disposal.
   - Explore potential partnerships with local farmers, cooperatives, and government agencies to promote sustainable practices and community engagement.
6. Documentation and Reporting:
   - Document all stages of the project, including research findings, experimental data, technical specifications, and process documentation.

- Prepare progress reports, presentations, and final documentation for submission to the academic institution, industry partners, and regulatory authorities.

- Present project outcomes and recommendations at conferences, seminars, and industry events to share knowledge and promote the adoption of eco-friendly paint technologies.

7. Future Recommendations:

- Identify areas for further research and development, such as expanding the color range, enhancing durability, or exploring novel applications of cow dung-based materials.

- Explore opportunities for collaboration with industry partners, government agencies, or non-profit organizations to scale up production, penetrate new markets, and promote sustainable development initiatives.

-By defining a comprehensive scope for the project, the aim is to provide mechanical engineering students with a structured framework to undertake a final year project that integrates technical expertise with environmental stewardship and societal impact.

45. SMART HYBRID SYSTEM FOR 2-WHEELER VEHICLE

Project Reference No.: 47S_BE_4791

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Keywords: Automotive industry, Rear wheel drive, Rechargeable lead acid battery, Gasoline engines, Fuel efficiency, Environmental degradation, ICEs (Internal Combustion Engines), EV (Electric Vehicle) drivetrain

Introduction:

In recent years, the automotive industry has experienced a major shift towards sustainable solutions. With growing concern about climate change and environmental degradation, there is a growing demand for vehicles that reduce emissions and improve fuel efficiency. To solve these complex problems, hybrid vehicles have emerged as a promising solution, combining the benefits of gasoline engines and electric motors. This introduction aims to shed light on the concept of hybrid vehicles, exploring their key features, advantages, and their role in shaping the future of transportation.

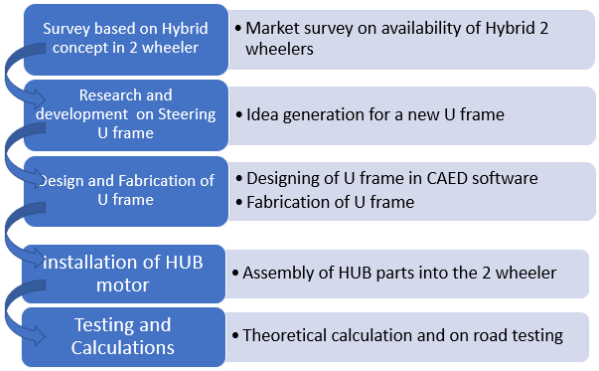
Our model consists of both ICEs drivetrain and EV drivetrain. We have achieved integrating both systems successfully by using front wheel drive for EV motor and rear wheel drive for IC Engine. The front wheel drive system is commonly used in cars but using it in 2-wheeler is one of the key features of the project. The EV motor has a control unit and is run on a rechargeable lead acid battery to provide electricity to the motor. The IC engine remains the same and no change is done on it.

The hybrid vehicle we designed is to optimize fuel efficiency and minimize environmental impact. Unlike conventional vehicles that solely rely on internal combustion engines (ICEs) fuelled by gasoline. This innovative combination allows hybrid vehicles to operate in various modes, seamlessly switching between the gasoline engine, the electric motor.

Objectives:

- To Improve fuel efficiency, Reduced emissions, and Smoother acceleration of two-wheeler vehicle
- To Install HUB motor in Front wheel for EV drive.
- To Improve long range travel and quick charging of battery.
- To Produce Hybrid vehicle at low cost.
- To reduce dependence on fossil fuels, mitigate climate change, and achieve sustainable transportation.

Methodology:



Front wheel drive and Rear wheel drive

Rear-wheel drive (RWD) is a popular drivetrain configuration where power is transmitted to the rear wheels of a vehicle. It offers several advantages that make it a preferred choice for certain applications. One key advantage of rear-wheel drive is superior handling and balance. With the engine and transmission located at the back of the vehicle, the weight distribution tends to be more evenly spread between the front and rear axles. This results in better balance and a more neutral handling characteristic, allowing for more precise and responsive steering.

The advantage of rear-wheel drive which is connected to IC engines transmission provides excellent traction during acceleration. When power is delivered to the rear wheels, the weight of the vehicle shifts towards the rear, increasing traction and minimizing wheel spin. This makes rear-wheel drive particularly suitable for applications that require strong acceleration.

However, rear-wheel drive does have its disadvantages. One notable drawback is its performance in slippery or challenging road conditions. Compared to front-wheel drive or all-wheel drive, rear-wheel drive vehicles can be more prone to losing traction and stability on wet, snowy, or icy surfaces.

Front-wheel drive (FWD) is a drivetrain configuration in which power is transmitted to the front wheels of a vehicle. It offers several advantages that make it a preferred choice for many car manufacturers. One key advantage of front-wheel drive is improved traction in slippery conditions. By placing the weight of the engine and transmission over the driven wheels, FWD vehicles tend to have better grip and traction on wet or snowy surfaces. This enhances their stability and control, especially in adverse weather conditions, making them more suitable for regions with inclement weather.

The main disadvantages of Front wheel drive in 2-wheeler vehicles would be transmission of power to the front wheel and handle steering. The chain or the belt can't be used for transmission as the steering of vehicles affects it. The HUB motor is a direct drive connected to the front wheel so there's no need of chain, belt or gears as transmission drives. Secondly the front wheel provides enough weight to withstand the traction in the 2-wheeler we used and the additional weight of the battery in the front leg space makes Front wheel Drive much easier to handle. Another advantage of front-wheel drive is its space-efficient design. By combining the engine, transmission, in the back axle and HUB in the front axle makes it a compact unit. This makes front-wheel drive compatible in 2-wheeler vehicles also.

Materials used Kinetic Honda 4S:



Figure 1: Kinetic Honda 4S

The Kinetic Honda 4S was a popular scooter model known for its reliable performance and stylish design. The scooter was introduced in 2005. It is installed with a 113.1cc, 4 Stroke, Air cooled, Single Cylinder Engine. It is powerful enough to produce max power of 7.2 HP @ 7500 rpm and max power of 7.7 Nm @ 5000 rpm. The two-wheeler is run by automatic transmission. The scooter is offered both electric and kick start. Drum brakes and telescopic suspensions were fitted at both ends. The machine ensured a mileage of 40 kmpl. The scooter's design showcased a sleek and aerodynamic body, with a comfortable seating arrangement for both the rider and pillion. The Kinetic Honda 4S was a reliable and practical choice for urban commuting, combining performance, style, and convenience to our project in a compact package.

HUB Motor:



Figure 2: HUB motor

A hub motor, also known as a wheel motor, is an electric motor that is directly integrated into the hub of a vehicle's wheel. It is a compact and efficient design that eliminates the need for traditional power transmission systems like driveshafts, differentials, and gears. The hub motor can be located in either the front or rear wheels, or both, depending on the desired configuration.

The HUB motor is Brushless DC motor with power rated of1000w. It has a rated voltage of 48v/60v. Maximum Torque rating of 45-55Nm, One of the main advantages of hub motors is their simplicity and compactness. By integrating the motor directly into the wheel hub, it eliminates the need for complex mechanical components, reducing weight and increasing overall efficiency. This design also allows for better weight distribution, as the weight of the motor is positioned near the wheel, enhancing vehicle handling and stability.

Another advantage of hub motors is their potential for regenerative braking. Since the motor is directly connected to the wheel, it can function as a generator during deceleration or braking. This allows it to convert the vehicle's kinetic energy into electrical energy, which can be stored in the battery for later use. Regenerative braking helps improve the overall energy efficiency of the vehicle and extends the range of electric vehicles.

Charger for battery:



Figure 3: Power Adaptor

A 60V lead-acid battery charger is a device specifically designed to charge 48–60-volt lead-acid batteries, commonly used in a variety of applications such as electric scooters, electric bikes, and golf carts. Lead-acid batteries are known for their reliability and affordability, making them a popular choice for these types of vehicles.

The 60V lead-acid battery charger operates by converting the alternating current (AC) from a power source into direct current (DC) at the appropriate voltage and current levels required to charge the battery. The charger is equipped with safety features such as overcharge protection, short-circuit protection, and temperature monitoring to ensure the battery is charged safely and efficiently.

The charging process for a lead-acid battery typically consists of multiple stages, including bulk charging, absorption charging, and float charging. The charger automatically adjusts the charging voltage and current during each stage to optimize the charging process and prevent overcharging. It is important to use a charger specifically designed for 60V lead-acid batteries to ensure compatibility and prevent damage to the battery.

Controller unit:



Figure 4: Controller Unit

The controller unit used in a hub motor system plays a critical role in managing the operation of the motor and ensuring optimal performance. The controller acts as the brain of the system, receiving input from the rider or vehicle's controls and translating that into signals that control the speed, torque, and direction of the hub motor.

The primary function of the controller unit is to regulate the power flow to the hub motor. It controls the amount of current delivered to the motor based on the user's input, such as the throttle

position. By adjusting the current, the controller determines the speed and acceleration of the vehicle. It also provides various safety features, such as overcurrent protection and thermal monitoring, to prevent damage to the motor and ensure safe operation.

Additionally, the controller unit may offer additional features and functionalities. For example, it can provide regenerative braking, where the kinetic energy from braking is converted into electrical energy and stored back into the battery. The controller may also include programmable settings, allowing the rider to customize parameters such as speed limits, power output, and assist levels.

The controller unit communicates with other components of the hub motor system, such as the battery, throttle or pedal sensors, and display unit, through a combination of electrical signals and protocols. This allows for seamless integration and coordination of all system components, resulting in a smooth and responsive riding experience.

Battery:



Figure 5: Amptek Battery

A 12V 28 Ampere Amptek battery in 5 no. is a rechargeable battery that can provide a continuous current output of 28 Amperes (A) at a voltage of 60 Volts (V). The Amptek battery is a type of sealed lead-acid (SLA) battery, which is commonly used in various applications, such as emergency lighting, security systems, and small electric vehicles.

The 60V 28A Amptek battery is designed to provide reliable and consistent power output for a the HUB motor. The battery is rechargeable, meaning it can be used multiple times by recharging it after each use. It is also maintenance-free, which means it does not require any special care or attention.

The battery is typically made up of lead plates, sulphuric acid, and other materials that help it to store and release electrical energy. It is housed in a plastic or metal casing that protects it from damage and allows for easy handling and transport. The 60V 28A Amptek battery is relatively small and compact, making it easy to install in various devices. It can be connected to the device using simple wiring or connector terminals. The battery's capacity and output power are generally sufficient to power small to medium-sized devices for extended periods, depending on the device's power requirements.

In summary, a 60V 28A Amptek battery is a reliable and durable rechargeable battery that can provide consistent power output for a variety of devices. Its compact size, ease of installation, and maintenance-free design make it an ideal choice for various applications where reliable and consistent power is needed.

Types of Sensors Available to Measure Rpm with Digital Device

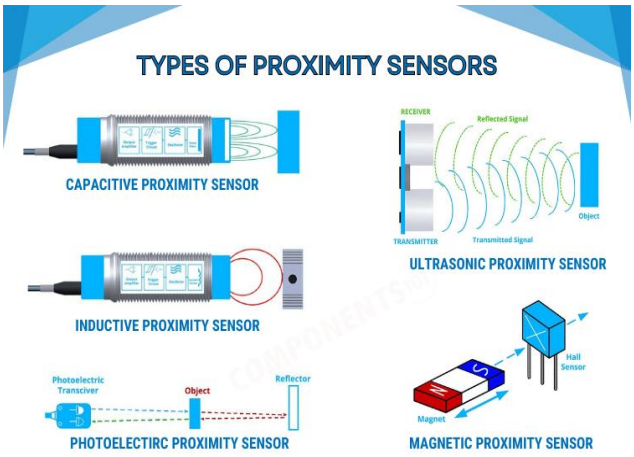


Figure 6: Types of Sensors

Comparison of Proximity Sensors

Proximity Sensor Types	Inductive Proximity Sensor	Capacitive Proximity Sensor	Ultrasonic Proximity Sensor	Optical Proximity Sensor	Magnetic Proximity Sensor
Operation Principle	Based on current induced by magnetic fields to detect nearby metal objects	Based on that when an object bets near the sensor, it changes the. capacitance between the sensing elements.	Based on ultrasonic waves and time taken to reflect it back.	It consists of a light sensor, which will be triggered by an object.	Based on magnetic field. When a magnet is near the reed switch will be activated.
Material supported	Metallic only	All material	All material	All material	Magnet
Operating distance	<50mm	<50mm	15m	100mm	<80mm
Cost	Low	Moderate	High	Moderate	Low
Environmental factors affecting Sensitivity	Metal Objects	Humidity& vapors	Air flow & temperature variation	Dust, oil, aspect of object	Magnets, EMI, Metals

Figure 7: Sensors Comparison

The Proximity sensors play a crucial role in modern industries, enabling automation, safety, and efficiency in various applications. These sensors are designed to detect the presence or absence of objects within a certain range without physical contact. In this article, we will delve into the different types of proximity sensors commonly used in industries, understanding their working principles and exploring their applications.

The above fig shows the types of sensors available in the market for various of applications, Special type of sensors are used in current 2-wheeler vehicle that is used as Rpm sensor, commonly used sensors for Rpm are inductive type and Magnetic type with better accuracy and efficiency. Inductive proximity switches are effective in detecting metal objects and are commonly employed in position sensing, object detection, collision detection, speed sensing and automated machinery. They are also used in industrial manufacturing facilities to detect the presence of metallic objects.

Sensor used To Measure Rpm for Microcontroller

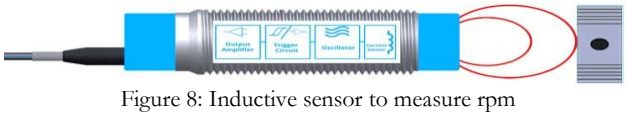


Figure 8: Inductive sensor to measure rpm

Inductive Proximity Sensors

Inductive proximity sensors are widely used in industrial environments for their robustness and reliability. They operate on the principle of electromagnetic induction. When an object approaches the sensor's electromagnetic field, it induces eddy currents, leading to a change in the sensor's output. This output signal is fed into Digital input of Microcontroller (Arduino board). The signal read from sensor are converted in revolution per min hence vehicle speed is read accordingly and based on this output the microcontroller Auto code controls the vehicle based on speed sensing. The sensor Is placed in the vehicle wheel hub to detect the Wheel rotations and sense speed.

Applications of Inductive Proximity Sensors

Inductive proximity switches are effective in detecting metal objects and are commonly employed in position sensing, object detection, collision detection, speed sensing and automated machinery. They are also used in industrial manufacturing facilities to detect the presence of metallic objects.

Results:

Experimental work:

Trial No.	*Range in km(EV only)*	Charging time
1	55 km	5 hrs
2	60 km	5 hrs
3	58 km	5 hrs

Trial No.	Range in km(IC Engine only)	Petrol consumed
1	38 km	1 ltr
2	40 km	1 ltr
3	39 km	1 ltr

The project team has tested the EV range and the mileage of the 2 wheeler taken which gives and average range of EV to be 58km and IC to be 38km. The range of the EV can be increased by adding more batteries and weight distribution in the vehicle.

NUMERICAL WORK

- Battery Specifications: 60 Volt, 28 Amp DC Motor (Amptek)

$$\text{Watt} = \text{Volt} * \text{current}$$
$$= 60\text{v} * 28\text{ah}$$
$$\text{Watt} = 1.68\text{kw}$$

- Motor specifications- 1 kw (48v/60v)

- Average km produced in Ev = 58 km for 5 hrs charge

- Mileage given by the IC engine is 38kmpl. It consists of a 5 ltr fuel tank

- The average range of both IC and EV is 248km

Conclusion:



Figure 9: Prototype of Hybrid 2-wheeler vehicle

The project team has successfully designed and built a hybrid vehicle that is both electric and IC convertible. The completion of the hybrid vehicle project marks a significant milestone in the pursuit of sustainable transportation. The development and construction of a hybrid vehicle require planning, engineering expertise, and a commitment to environmental responsibility. Through this project, we have successfully integrated the best features of electric and internal combustion engines, creating a vehicle that combines fuel efficiency with reduced emissions. The hybrid vehicle serves as a tangible example of our dedication to reducing our carbon footprint and promoting a greener future. The completion of this project not only represents our technical capabilities but also highlights our commitment to innovation and addressing the pressing challenges of climate change.

In conclusion, hybrid vehicle technology represents a significant step forward in the automotive industry, offering a balance between improved fuel efficiency, reduced emissions, and practicality for consumers. As the technology evolves, hybrid vehicles will continue to play a crucial role in the global efforts to reduce dependence on fossil fuels, mitigate climate change, and achieve sustainable transportation.

46. CARBONATE BASED CONVERSION COATING ON MG ORTHOPAEDIC IMPLANTS: IN VITRO STATIC AND FLOW DEGRADATION STUDIES

Project Reference No.: 47S_BE_1197

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Keywords: Magnesium implants, Degradable, Coatings, Calcium carbonate, Orthopaedic implants, Corrosion, invitro studies.

Introduction:

Magnesium-based alloys offer significant advantages as orthopaedic implant materials compared to conventional options like Co-Cr, stainless steel, Ti-based alloys, and emerging Zr-based alloys. These advantages include their lightweight nature, minimal stress shielding, biodegradability, biocompatibility (cytocompatibility and hemocompatibility), infection resistance (especially when alloyed with Zn, Cu, Ag), and the elimination of secondary surgery for implant removal.

Magnesium's role in human metabolism underpins its appeal as a biomaterial. It is the fourth most abundant element in the human body, with about 25 g in a typical adult, evenly distributed between soft tissues and bone. As the second most prevalent intracellular cation, it is vital for over 300 enzymatic reactions. Normal serum magnesium levels range from 0.7 to 1.05 mmol/L, regulated by renal and intestinal homeostasis. Hypermagnesemia, defined as serum magnesium levels exceeding 1.05 mmol/L, can cause respiratory issues, diarrhoea, hypertension, and muscular paralysis, with levels of 6-7 mmol/L potentially leading to cardiac arrest. Magnesium implants degrade into non-toxic, excretable compounds but rapid corrosion can lead to hypermagnesemia and hydrogen gas evolution, causing inflammation and compromising mechanical integrity before bone healing.

Research has focused on controlling magnesium alloy corrosion. While early alloys contained harmful elements, newer biocompatible alloys (Zn, Ca, Sr, Mn, Ag) offer improved safety. Coatings and surface treatments, including bio glass and bio ceramics, have been explored to enhance biocompatibility, low degradability, and osteogenesis. This study investigates calcium carbonate-based coatings, inspired by marine crystal growth, characterized using FTIR, XRD, and FESEM-EDAX, and evaluates biodegradation and mechanical performance through in vitro testing and X-ray nano-CT scans.

Objectives:

Objectives of the project are

- Achieving Carbonate based coating on Magnesium (Mg) alloy.
- Long term static corrosion performance of the coating.
- Flow assisted degradation studies of the coatings in in vitro Bioreactors.
- Characterization of the as prepared coating and corroded sample.

Methodology:

The carbonate salts weakly soluble in the water are dissolved through carbon dioxide infusion to obtain M+ and HCO3-. The magnesium alloys will be immersed in this solution and carbonate-based coatings will be obtained through precipitation. These coatings will be characterized using X-ray diffraction (XRD), Fourier Transform Infrared (FTIR) spectroscopy and Field emitting scanning electron microscopy (FESEM) for their structural, functional and morphological features. Further, long-time cyclic and flow assisted in vitro degradation behaviour of the implants in the simulated body fluids (SBF) will be evaluated in the incubator and bioreactors respectively. Corrosion products, changes in the SBF will be characterized. Samples tested in the incubator and bioreactors will also be characterized using uCT scans to understand the volumetric corrosion behaviour.

Description of the innovation in the project

The innovativeness of the project is mentioned below:

- we have analysed the corrosion coating behaviour in nano level by using nano CT.
- we have achieved nature inspired bio coatings.
- our methodology for conversion coating is unique and novel.
- we have customised bioreactors for invitro testing of samples in simulated body fluids.

Future work scope:

Future research should focus on optimizing coating compositions and application methods to enhance uniformity, adherence, and biocompatibility of magnesium alloy implants. Detailed studies of corrosion mechanisms, including the interaction of ions and organic molecules with the alloy, are essential. Long-term in vivo studies are necessary to evaluate biocompatibility and mechanical integrity under real-world conditions. Advanced surface modification techniques, such as nanostructured coatings and laser surface modification, should be explored to improve corrosion resistance. Integration with drug delivery systems could enable localized treatment to facilitate healing and reduce infection risks. Evaluating mechanical properties under dynamic loads will provide insights into durability for load-bearing applications. Advanced characterization techniques, including synchrotron X-ray tomography and in situ microscopy, can offer a detailed understanding of degradation mechanisms. Personalized medicine approaches should also be investigated to customize implants based on patient-specific factors, enhancing their effectiveness and reliability.

Results and Conclusion:

Magnesium alloys hold significant promise as biodegradable implants for orthopaedic, maxillofacial surgery, urethral stents, and cardiovascular stents. However, their high degradation rates, hydrogen evolution, and mechanical integrity loss limit their practical applications. This study demonstrates the potential of novel, environmentally friendly

coatings inspired by natural mineral growth in marine environments to address these limitations.

The microstructural analysis of Mg-2Zn alloy shows α-Mg grains with Zn-rich secondary phases at grain boundaries, indicating a coring effect due to slow cooling. Coating morphology reveals uniform, interlocking brick-like crystals, with elemental mapping confirming a Ca-based composition. FTIR spectra identify CO3- peaks analogous to CaCO3 precursors. Corrosion mechanisms involve magnesium oxidation, hydrogen evolution, and pH changes, with coatings significantly reducing reactivity compared to bare alloys. pH monitoring shows lower reactivity in coated samples, attributed to inhibited magnesium/calcium carbonate and phosphate precipitation, enhancing surface bioactivity.

Long-term performance evaluations over 650 hours indicate lower reactivity and greater stability of coated samples. Nano-CT scans reveal localized corrosion in uncoated samples under static and flow conditions, while coated samples exhibit protection. Volumetric corrosion rates for coated samples are significantly lower (0.044 mm^3/day) compared to uncoated samples (0.104-0.264 mm^3/day), highlighting the coatings' effectiveness in preserving mechanical properties under physiological conditions.

In conclusion, magnesium alloys' potential as biodegradable implants is enhanced by innovative coatings that mitigate corrosion and maintain mechanical integrity. Further research into these coatings could advance the clinical utility of magnesium-based biomaterials in regenerative medicine.

47. DESIGN AND DEVELOPMENT OF LOW-COST HEALTH CARE MONITORING ROBOT FOR HEALTH CENTERS IN RURAL AREAS

Project Reference No.: 47S_BE_4528

College : Christ Deemed To Be University, Kengeri Campus, Bengaluru
Branch : Department of Robotics and Automation
Guide(S) : Dr. Amruta Rout
Student(S) : Mr. Sri Vardhan Raj
Mr. Athuluri Lohith Naidu
Mr. Duggimpudi Hemanth Reddy
Mr. Bhavesh Reddy Pagireddy

Keywords: Healthcare, Navigation, integration, monitoring, telemedicine, composites

Objectives:

Transforming Healthcare with Precision Robotics for Accessible, Sustainable Care The COVID-19 pandemic exposed healthcare gaps, especially in countries like India. Robots have been effective for COVID-19 testing, patient monitoring, and telemedicine for elderly care. Integrating robots in rural health centers faces challenges due to high costs. 3D Lidar SLAM enhances navigation and autonomy, though lighting sensitivity is an issue. The research aims to develop affordable medical robots with sustainable materials like bamboo and wood, and integrated Lidar SLAM for precise care in rural area.

Methodology:

Sustainable Materials:

- Use bamboo for the robotic arm and wood composites for the structure.

Autonomous Navigation:

- Implement 3D LIDAR sensors for real-time environment mapping.
- Utilize SLAM algorithms for precise navigation and localization.

Design and Prototyping:

- Develop a working prototype with integrated electronics including encoder motors, Raspberry Pi, Arduino Mega, and custom PCBs.

Telemedicine Integration:

- Equip the robot with a camera, display, and sensors for remote consultations and continuous patient monitoring.

Work Plan:

The work plan involves the following steps:

1. Initial design and material selection.
2. Prototype development with sustainable materials.

3. Integration of LIDAR-SLAM and telemedicine technologies.
4. Testing and refinement of the prototype.
5. Deployment in rural healthcare settings and feedback collection.

Results:

- The prototype demonstrated effective autonomous navigation using LIDAR-SLAM.
- Structural analysis confirmed the robot's stability with minimal deflections under various loads.
- Sustainable materials were successfully used, reducing environmental impact.

Conclusions:

- The project achieved its goal of creating an affordable, sustainable, and effective healthcare monitoring robot.
- The use of natural materials helped establish a positive psychological connection with rural users.
- The integration of advanced navigation and telemedicine technologies enhanced healthcare delivery in underserved areas.

Novelty of the Project Scope for Further Development

- The use of bamboo and wood composites in a healthcare robot is a novel approach, offering sustainability and cost-effectiveness.
- Integration of LIDAR-SLAM for autonomous navigation ensures precise and adaptable movement in dynamic environments.
- Combining robotics with telemedicine bridges the gap in healthcare accessibility in rural areas.

Industrial Collaboration:

- Further refinement of the LIDAR-SLAM algorithm to enhance navigation accuracy in diverse settings.
- Expansion of the robot's capabilities to include more complex medical tasks and interactions.
- Testing and deployment in various rural healthcare centers to gather feedback and improve functionality.
- Exploration of additional sustainable materials to further reduce environmental impact.
- Development of training programs for healthcare workers to effectively utilize the robot in their practices.

48. EVALUATION OF REPRODUCTIVE TOXICITY ASSOCIATED WITH FIPRONIL EXPOSED FEMALE WISTER RATS

Project Reference No.: 47S_MSC_0014

College : Sharnbasva University, Kalaburagi
Branch : Department of Zoology
Guide(S) : Mr. Vishwajit Basavaraj Darekar
Dr. Basawarajeshawri Indur
Student(S) : Ms. Sadika Sumera
Mr. Naveenkumar Mallappa Sindagi
Mr. Sameer Panaparosh
Ms. Tanuja Hirole

Keywords: Fipronil, reproductive, rats, dose, pesticides, insecticide, serum

Introduction:

Disorders of reproduction and hazards to reproductive health have become a prominent public health issue. Numerous agents including pesticides, plasticizers, metals and several industrial chemicals have been shown to cause reproductive toxicity in male and female laboratory animals and humans (Dalsenter et al., 1997, Faqi et al., 1998, Gray et al., 1999). For more than two decades in the world literature uses the term "endocrine-disrupting chemicals or endocrine disruptors" (EDCs, or EDs), adopted by the Agency for the U.S. Environmental Protection Agency in 1991 (Boas et al., 2006; Diamanti-Kandarakis et al., 2009; Zoeller, 2010).This term brings together all chemical substances which in the humans and animals changing processes of synthesis , secretion, transport, and metabolism of natural hormones and thereby leads to a violation of hormonal homeostasis (Hotchkiss et al., 2008). Endocrine-disrupting effects have many pesticides, including the latest generation, and household chemicals and some medicines. There are more than one hundred

pesticides of which 80% are commonly used as insecticides and fungicides, have different endocrine disrupting effects (Mnif et al, 2011). One of the most common representatives of the pyrazole class pesticides is fipronil (FPN), which as insecticide has a high efficiency even at low doses and is widely used in households, agriculture, and health care in the many countries of world (Tingle et al., 2003). Fipronil is a second-generation phenylpyrazole insecticide widely used in veterinary medicine as well as a food-use pesticide. It is effective at low doses against numerous terrestrial insects, such as insect pests of crops and locusts. It has also excellent therapeutic and persistent activity against ticks and fleas when topically administered to domestic animals. Fipronil is a potent inhibitor of the gamma-aminobutyric acid (GABA)-gated chloride channel and insect death is caused by hyper-excitation, convulsions and paralysis.

The purpose of the present study is to elucidate whether fipronil poses reproductive hazards in adult female Wistar rats acutely exposed by topical administration of a formulated product, since the area of Kalburagi district where framers used to practice fipronil regularly to control various pests in pulses, cotton and cereals will be exposed to this harmful insecticide. Hence this study will help to explore the effects of fipronil (FPN) on reproductive health of daily wage labours and farmers. A sufficient number of well-validated endpoints were investigated in order to provide a comprehensive risk assessment of the entire reproductive system.

Objectives:

1. The effect of Fipronil on sexual behaviour and fertility in adult female rat
2. Developmental and Reproductive outcomes in female rats exposed to fipronil chemicals.

Methodology:

Material:

Test chemical

Fipronil, White crystalline powder, Purchased from Tokyo Chemical Industry (TCI) India PVT LTD, Genome Valley Rd, Turkapally, Hyderabad, Telangana- 500078, India.

Animals:

Female Wistar rats, approximately 10 weeks old obtain from Animal House, Department of P.G. Studies and Research in Zoology, Sharnbasva University Kalaburagi, Karnataka. The rats are acclimatized for five days before start of the treatment. The animal experiment will perform in accordance with the guideline for care and use of laboratory animals. All experimental protocols were approved by the Institutional Animal Ethics Committee. IAEC Approval no: (SUK/ZOL/IAEC/05/2024-25) of Department of P.G. Studies and Research in Zoology, Sharnbasva University Kalaburagi, Karnataka, India (CPCSEA Regd. no.: 2236/PO/ReBiBt/S/23/CCSEA).

Housing, bedding, diet and wate:r

Rats were housed in an environment-controlled room (temperature: 21±3 o C with relative humidity between 58 and 67%; 12 hours light and 12 hours dark cycle). The sterilized paper shreds were provided nesting material. Pelleted rodent feed (Champaka Feeds and Foods, Bangalore, India) and purified water in polycarbonate bottles were provided ad libitum.

Experimental Design and test doses

The rats were randomly divided into four groups, each group containing 10 rats. Administration duration of fipronil will chose according to the completion time of oogenesis and in accordance with the OECD Guideline for Testing of Chemicals: The doses of Fipronil were determined according to previous studies and also, the exposer of human have chosen were in accordance with the guidelines extrapolating human doses to animal doses

Female rats were divided into following groups:

Group 1 – (Control): The rats of this group received vehicle (distilled water) for 30 days.

Group 2 – Fipronil Low dose [10 mg/kg body by oral gavage 30 days]

Group 3 – Fipronil Medium dose [20 mg/kg body weight by oral gavage 30 days].

Group 4 – Fipronil high dose [30 mg/kg body weight by oral gavage 30 days].

After 24 hours of the last dose, the animals were weighed and autopsied under light ether anesthesia. The blood was collected through cardiac puncture using a dry and clean syringe, for serum studies.

Result And Conclusion:

The following reproductive parameters examination will be conduct at the end of the experiment:

1. Study of oestrous cycle length
2. Determination body and organ weight
3. Histological examination of Ovary tissue
4. Determination of serum FSH, LH, Estrogen levels
5. Analysis Serum Biochemistry
6. Statistical analysis

* ~ * ~ *

Technical Lecture for the
47th Series Student Project Programme (SPP)

Date: 10th August 2024 **Time:** 12:00 Noon

Venue: **Doddappa Appa Auditorium, Sharnbasva University, Kalaburagi**

PERCEPTION OF ENGINEERING STUDENTS AND FACULTY MEMBERS FOR THEIR CAREERS

Dr. K. Venkateswarlu
Chief Scientist, CSIR-National Aerospace Laboratories, Bengaluru
Email: karodi2002@yahoo.co.in



This presentation primarily focuses on post-graduation career choices for engineering graduates. While many engineering students aim to start their careers after graduation, some aspire to pursue further education such as master's degrees or roles like IAS / IPS / IES. Achieving these aspirations often involves numerous challenges and obstacles. The presentation aims to address these issues and provide strategies to overcome them. Additionally, it highlights the significance of faculty members in supporting engineering students during their professional journeys. The presentation also focuses on the role of faculty members in engaging with industry professionals and research institutions, supported by various examples. This technical talk is designed to benefit graduating engineering students and faculty members seeking to advance in their respective scientific careers.

"I-STEM Portal - A Collaborative Force for Global Recognition"

Dr. Harilal Bhaskar
Chief Operating Officer and National Co-Ordinator, Indian Science Technology and Engineering Facilities Map (I-STEM)

- **Introducing the I-STEM Portal:** The I-STEM Portal is a ground-breaking initiative designed and funded by OPSA, Government of India, to elevate scientific and technological research in India. It serves as a comprehensive platform for researchers, scientists, and institutions to share equipment and collaborate effectively. The Power of Collaboration:
- **Strength in Numbers: I-STEM Statistics:** The portal boasts an extensive network of numerous research institutions, R&D labs, and industry partners, startup and Researchers/
- **Benefits for Partner Institutions**: Partnering with the I-STEM Portal offers several advantages:
    - **Increased Visibility and Recognition**: By listing on the I-STEM Portal, your institute's capabilities are showcased to a wider audience of researchers, smaller institutes, the start-up industry, and beyond. This increased visibility can lead to new collaborations and funding opportunities.
    - **Enhanced Equipment Utilization**: Share underutilized equipment with researchers across the network, maximizing the value of your resources and potentially generating revenue through access fees.

I-STEM Portal: A Launchpad for Global Recognition:

- **A Vision for the Future:** The I-STEM Portal aims to become a globally recognized and indispensable resource, showcasing India's scientific prowess on the international stage.
- **Partnering for Progress:** The success of this vision relies heavily on the continuous involvement and contribution of partner institutes and R&D labs. Future collaboration models might include joint research initiatives and thematic focus areas that address pressing global challenges.

Upcoming Flagship Program Overview: I-STEM "Synergy" Initiative

The I-STEM "Synergy" initiative fosters industry-academia collaboration by transforming real-world industry needs into actionable projects for students. Key components include:

- Industry bodies like CII will submit technology and research needs.
- I-STEM connects these needs with academic institutions.
- Final-year students will work on industry-vetted projects, gaining internship and job opportunities.
- Projects continue beyond graduation, transitioning to junior batches for completion and knowledge transfer.

Target Audience:

- **Researchers and Scientists:** The I-STEM Portal empowers your research journey by:
    - **Simplified Lab Access:** Easily find and access labs with the equipment you need across India.
- **R&D Labs and Institutes:** The portal unlocks new possibilities for R&D Labs/Institutions
    - **Enhanced Visibility and Recognition:** Gain exposure to a network of researchers and **potential** industry and Start-up partners.
    - **Resource Optimization:** Share underutilized equipment with the research community, **maximizing** its value.

Technical Lectures Organised during Seminar and Exhibition in the previous series of Student Project Programme

SPP Series	Topic	Speaker	Venue
47th	Perception of Engineering Students and Faculty Members for their Careers	Dr. Venkateshwarlu Karodi Chief Scientist National Aerospace Laboratories (NAL) Bengaluru	Sharnbasva University, Kalaburagi
	"I-STEM Portal - A Collaborative Force for Global Recognition"	Dr. Harilal Bhaskar Chief Operating Officer and National Co-Ordinator, Indian Science Technology and Engineering Facilities Map (I-STEM)	
46th	Additive manufacturing: A metallurgist's perspective	Prof. SATYAM SUWAS *Professor & Chairman,* *Department of Materials Engineering, Indian Institute of Science, Bengaluru*	Alva's Institute of Engineering and Technology, Moodubidire
45th	IoT, 5G and Robotics Automation – Shaping The Next Decade	Prof. BHARADWAJ AMRUTUR *Chairman,* *Robert Bosch Center for Cyber Physical Systems, Indian Institute of Science*	Visvesvaraya Technological University (VTU), Belagavi
42nd	Bio-Mechanical Engineering	Prof. G.K. ANANTH SURESH *Department of Mechanical Engineering, Indian Institute of Science, Bengaluru.*	KLE Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi
41st	The Future of World Electronics and Possible Role India Can Play	Dr. MAYANK SHRIVASTAVA *Assistant Professor,* *Department of Electronic Systems Engineering, Indian Institute of Science, Bengaluru*	Bapuji Institute of Engineering and Technology, Davangere
40th	Inclusive Innovations in Health Care	Dr. SHYAM VASUDEVA RAO *President and CTO,* *Forus Health Pvt. Ltd, Bengaluru*	N.M.A.M. Institute of Technology, Nitte, Karkala, Udupi District
39th	Innovating In Industry	Shri. SUNDARARAJAN SRINIVASAN *Senior Director,* *Next Generation & Standards Communication and Devices Group, Intel Mobile Communications India, Bengaluru*	BLDEA's V.P. Dr. P.G. Halakatti College of Engineering and Technology, Vijayapura
38th	Control Strategies for Renewable (Solar) Energy Integration	Dr. A. NARENDRANATH UDUPA *Principal Scientist,* *Phillips Research, Bengaluru*	Sahyadri College of Engineering and Management, Mangaluru
37th	Entrepreneurship, R&D in Biotechnology and related areas	Mr. VINAY KONAJE *CEO,* *Navya Biologicals Pvt. Ltd., BVBCET campus, Hubli*	B.V. Bhoomaraddi College of Engineering and Technology, Hubballi
	Magic English Learning for Technical Education Programme	Shri. VISHWANATH *CEO,* *Karadi Path Education Company Pvt. Ltd., Chennai*	
36th	ICT Enabled Teaching-Learning Strategies in Science and Engineering	Dr. MANGALA SUNDAR KRISHNAN *Department of Chemistry, Indian Institute of Technology, Madras*	Angadi Institute of Technology and Management, Belagavi
	Indian Aerospace Scenario	Padmashri, Dr. T S PRAHLAD *Scientist and Former Director,* *National Aeronautical Laboratories, Bengaluru*	
	Towards Sustainable Water Supply and Management	Prof. M S MOHAN KUMAR *Department of Civil Engineering,* *Indian Institute of Science, Bengaluru*	

Annexure I

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
Indian Institute of Science Campus, Bengaluru - 560012

LIST OF PROJECTS SANCTIONED UNDER 47th SERIES OF STUDENT PROJECTS PROGRAMME: 2023 – 2024

1. A.C.S. COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1.	47S_BE_5390	FABRICATION AND MATERIAL CHARACTERIZATION OF SAMANEA SAMAN FRUIT FOR AEROSPACE APPLICATIONS	B.E.	AEROSPACE ENGINEERING	Dr.R. MUKESH	Ms. K. R. SANJANA Ms. GEETA N NAIK Ms. NAYANA C. NAIK Ms. MEGHA A. PATIL
2.	47S_BE_3813	PREGNANCY MONITORING SYSYTEM USING GSM MODULE	B.E.	BIOMEDICAL ENGINEERING	Dr. P. BHUVANESWARI	Mr. ASHWIN JERRY Ms. LAKSHMI PRIYA C. Ms. PRATHEEKSHA N. Mr. PAWAN MASUTI
3.	47S_BE_5177	IOT BASED AQUACULTURE MONITORING SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SANDHYARANI	Ms. RACHITHA C Ms. POOJA CHIGADANI Ms. R. RISHMA SAI Ms. SWAPNA K.
4.	47S_BE_4673	BIOMETRICALLY SECURED ATM SURVEILLANCE SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. SHARATH BABU C. G.	Mr. HEMANTH KUMAR K. B. Mr. ABHISHEK S. PATIL Ms. MOULYA H. T. Ms. PRATHIKSHA C. S.

2. A.G.M. RURAL COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBBALLI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
5.	47S_BE_2484	INDUSTRIAL WASTE WATER TREATMENT BY USING NATURAL ADSORBENTS	B.E.	CIVIL ENGINEERING	Prof. VIJAYLAXMI M. SHANBHAG	Mr. RAHUL K. Mr. VENKATESH M. H. VINAYAK J Mr. VINOD KUBIHAL
6.	47S_BE_5169	IOT BASED FOOD QUALITY DETECTION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MOHAMMED ASIF RAIBAG	Ms. MEHWISH MOKHASHI Ms. TAHSEEN NADAF Ms. KAJAL KUMARI
7.	47S_BE_5404	PRATIKSANTI : SAFEGUARDING LIVES WITH LIVER CANCER DETECTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. RAMESH N. KOPPAR	Ms. D. G. VASAVI Ms. NAYANA VEERENDRA PURADAL Ms. SRUSHTI VIJAYKUMARGOUD PATIL
8.	47S_BE_2191	WATER PURIFICATION USING NATURAL INGREDIENTS	B.E.	MECHANICAL ENGINEERING	Mr. RATHOD CHAMARAJ	Mr. MANOJ KATHARE Mr. NAVEEN MADIWALAR Mr. GANESH INGALE Ms. GURUDEVI S. M.
9.	47S_BE_2417	AUTOMATIC LPG GAS LEAKAGE DETECTION WITH CYLINDER VALVE OFF SYSTEM	B.E.	MECHANICAL ENGINEERING	Mr. K. S. SHREEHARSHA	Mr. IRANNA BADIGER Mr. ROHAN BALAKUNDI Mr. ABHISHEK SAJJAN Mr. DEVENDRA G. HOSAMANI

3. A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
10.	47S_BE_1578	HAND TO HEART: AI-DRIVEN TRANSLATION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SNITHA SHETTY Mr. STANLEY P D'SOUZA	Mr. NISHANTH Ms. MOUNA R. R. Ms. PRAJNA P. Ms. SUSHMA MALLESH KAIKAD
11.	47S_BE_1762	360-DEGREE FEEDBACK SOFTWARE FOR THE GOVERNMENT PRESS INFORMATION BUREAU(PIB) USING ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ANTONY P. J. Mrs. ASHWITHA A. SHETTY	Ms. THEJASWI D. S. Mr. SHARATH KUMAR Mr. TIKESH RAJ Ms. VARSHA B. SHETTY
12.	47S_BE_1767	AI ASSISTED DISTRACTED DRIVER DETECTION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ANTONY P. J. Mrs. VIDYA MYAGERI	Mr. AHMAD MIDLAJ B. Ms. CLIVA RHEA MORAS Mr. RAHUL M. MOOLYA Mr. ZAID ALI AHAMAD

13.	47S_BE_1494	ENERGY EFFICIENT STREET LIGHTING WITH REAL TIME DATA MONITORING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. GANESH U. G.	Ms. SEEMA J. RAI Ms. ATHMIYA RAJ A. G. Mr. DURGESH Mr. HARDIK RAI
14.	47S_BE_1550	ENHANCING ROAD SAFETY WITH MACHINE LEARNING-BASED POTHOLE DETECTION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. SURESHA D.	Ms. SHREYA Y. Ms. SHIFALI DEVADIGA Mr. ABHISHEK
15.	47S_BE_3297	MACHINE LEARNING FOR EARLY-STAGE AUTISM DETECTION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. R. SAHAYA SHAMINI	Mr. KRITHIK KUMAR Mr. SHADEED SHUKOOR Mr. AJAY KUMAR SONKAR
16.	47S_BE_1378	EFFECT OF CARDANOL BLENDING ON THE PERFORMANCE, EMISSION, COMPUSTION & CYCLE TO CYCLE VARIATION CHARECTERISTICS OF SINGLE CYLINDER CI ENGINE WITH OXYGEN ENRICHMENT	B.E.	MECHANICAL ENGINEERING	Dr. VIGHNESHA NAYAK Mr. PRASAD B. G.	Mr. ABHISHEK KUMAR PADAVU Mr. AKHIL SAJEEV Mr. ASHIK H. S. Mr. MUHAMMED SHAZ T. P.

4. A.J. INSTITUTE OF MANAGEMENT, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
17.	47S_MBA_0099	APPRACING WOMEN HEALTH CONCERS; EMPLOYEES PROSPETIVE ON MENSTRUAL LEAVE POLICY IN THE WORK PLACE	MBA	MBA	Prof. DEEKSHA RAO Prof. PRASHANTH SHETTY	Ms. AYISHA SHERIN T. K. Ms. AKHILA VARGHESE Mr. AJAY NARAYANAN M Ms. ANJANA U. K.

5. A.M.C. ENGINEERING COLLEGE, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
18.	47S_BE_2097	BIKE LOCK UNLOCKING SYSTEM USING SIDE INDICATORS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ANAND KUMAR B. Ms. SNIGDHA KESH	Mr. GIRI BABU B. Mr. HARICHARAN REDDY Mr. JAI PRAKASH R. Mr. THARUN M.
19.	47S_BE_2270	BAYMAX	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. V. MAREESWARI Mrs. SNIGDHA KESH	Mr. TANAY JAGNANI Mr. UTKARSH RAJ Mr. ARYAN AGARWAL Mr. ARNAB BHOWMIK
20.	47S_BE_2950	PROTECTION OF CROPS FROM ANIMALS AND PROPER USAGE OF RAIN WATER USING IOT AND ML	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. VELVIZHI RAMYA R. Mrs. MALA M.	Ms. PRATHIKSHA K. G. Ms. PRAVEENA D. Ms. REKHA G. R. Ms. SANDHYA S.
21.	47S_BE_3802	VITAMIN DEFICIENCY DETECTION USING IMAGE PROCESSING AND NEURAL NETWORK	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SUPRIYA SHRIVASTAV	Ms. NISHCHITHA K. S. Ms. PRATHIKSHA R. Ms. RAKSHITHA C.
22.	47S_BE_4695	EYE GAZE CONTROLLED WHEELCHAIR WITH HEALTH MONITORING SYSTEM USING RASPBERRY PI	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. G. V. ASHWINI Prof. SHWETHAA A. R.	Mr. DEEPAK N. Ms. CHANDINI Mr. LALATENDU TRIPATHY Mr. LIKHITH C.
23.	47S_BE_3787	DESIGN AND FABRICATION OF PLC-ENHANCE SEWER EXCAVATOR	B.E.	MECHANICAL ENGINEERING	Dr. MANJUNATHA C.	Mr. VINOD KUMAR V. Mr. SHARATH S. Mr. SAI MANOJ M. S.

6. A.P.S. COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
24.	47S_BE_4628	SYNCR8IVE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. C. P. SAMEERANA	Mr. MOHITH KUMAR S. S.
25.	47S_BE_4981	FORENSIC FACE SKETCH CONSTRUCTION AND RECOGNITION USING ML	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SOUMYA GEORGE	Mr. S. NAVEEN Mr. DISHAN DEEPAK ANEGUNDI Mr. VINAY KUMAR
26.	47S_BE_1870	BRAIN WAVE CONTROLLED MINIATURE WHEEL CHAIR USING BCI TECHNOLOGY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. THEODORE JESUDAS	Ms. SUCHITHTRA M. Ms. NAVYASHREE S. Ms. YASHU K.
27.	47S_BE_1880	ADVANCED ELECTRIC BIKE WITH INTEGRATED SAFETY AND MONITORING SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Ms. USHA H. N.	Mr. BALAJI S. Mr. SUMUKHA R.
28.	47S_BE_1886	SMART READER GLASS FOR BLIND AND VISUALLY IMPAIRED PEOPLE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. PURVA KAMAT MHAMAI	Mr. MOHAMMED FAIZAL Mr. ABHISHEK N. Mr. ROHITH N.

7. A.T.M.E. COLLEGE OF ENGINEERING, MYSURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
29.	47S_BE_4252	VERMICOMPOSTING OF DOMESTIC SOLID WASTE	B.E.	CIVIL ENGINEERING	Dr. SUNEETH KUMAR S. M.	Mr. SUMAN V. M. Mr. CHANDAN K. S. Mr. SRINIVAS J. R. Mr. VENKATESH A. R.
30.	47S_BE_4255	ANALYSIS OF RAINFALL AND GROUNDWATER TABLE FLUCTUATION IN MYSORE CITY USING ERDAS AND ARCGIS	B.E.	CIVIL ENGINEERING	Ms. NAMITHA A. P.	Mr. SHASHANK C. Mr. VISHWAS I. G. Mr. KARTHIK K. Ms. PALLAVI M.
31.	47S_BE_3819	MYOELECTRIC TRANSRADIAL PROSTHETIC ARM FOR UPPER LIMB DISARTICULATION TO SUPPORT DISABLED REHABILITATION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. PARTHASARATHY L. Prof. SHREESHAYANA R.	Mr. KARTHIK R. Mr. AKILESH P. Ms. LAVANYA G. K.
32.	47S_BE_4408	INTELLIVISION: A SMART BLIND ASSIST SYSTEM USING ML AND IMAGE PROCESSING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. GIRISH M. Dr. PRAKASH KURVAVATTI	Ms. KEERTHANA N. Ms. CHETHANA U. Ms. POORVIKA N. Mr. CHETHAN KUMAR M. C.
33.	47S_BE_4623	SPINE SERENITY: SMART RELIEF MASSAGER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. ANUPAMA SHETTER Prof. PRADEEP KUMAR Y.	Mr. KARTHIK P. U. Mr. BHARGAV M. Mr. CHETHAN M. C. Mr. KARTHIK M.
34.	47S_BE_5031	SOLAR POWER MANAGEMENT SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. PRATHIBHA M. K. Mr. GIRISH M.	Ms. SARASWATHI M. Ms. AZRA AKIN Ms. RUCHITHA K. R. Ms. SANJANA MANOHAR N.
35.	47S_BE_4801	AFFORDABLE STAIRLIFTS TO AID ELDERLY AND MOBILITY-IMPAIRED INDIVIDUALS	B.E.	MECHANICAL ENGINEERING	Dr. CHETHAN S. Mr. HEMANTH B. R.	Mr. VISHAL S. Mr. MADHUSUDAN R. Mr. KARTHIK M. Mr. SHAYAN PASHA
36.	47S_BE_4821	DEVELOPMENT AND TESTING OF BIODEGRADABLE AGAVE FIBER REINFORCED POLYMER BASED COMPOSITE	B.E.	MECHANICAL ENGINEERING	Dr. A. K. MURTHY Prof. DEVARAJ M. R.	Mr. HITHESH T. L. Mr. SHAYAN PRASHA Ms. POOJA

8. ACHARYA INSTITUTE OF MANAGEMENT & SCIENCES, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
37.	47S_MBA_0130	AN EMPIRICAL STUDY ON CHALLENGES FACED BY FARMERS IN CONVERSION OF EXISTING FARMING TO ORGANIC FARMING WITH SPECIAL REFERENCE TO RURAL BANGALORE	MBA	FINANCE	Dr. V. SARAVANA KUMAR Dr. KALPANA VENUGOPAL	Mr. SHODAN GOWDA K. V. Ms. DEEKSHA B. Ms. RAKSHITHA M. Ms. POOJA R. PATIL

9. ACHARYA INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
38.	47S_BE_2984	DETECTION AND REMEDIATION OF MICROPLASTICS AND PER-POLYFLUOROALKYL SUBSTANCES(PFAS) IN TREATED SEWAGE WATER	B.E.	BIOTECHNOLOGY	Mr. PRUTHVISH R.	Mr. PAWAN S. Ms. VARSHITHA P. Mr. KIRAN B. S. Ms. SPURTI PRAKASH PATIL
39.	47S_BE_3955	OPTIMIZATION OF TOPICAL FORMULATION TO TREAT EARLY-STAGE MELANOMA	B.E.	BIOTECHNOLOGY	Dr. AKHELA UMAPATHI Dr. ISMAIL SHAREEF	Ms. JAYSHREE S. Mr. SANJAY SARDAR P. Ms. ADORA G. CHRISTINA Mr. ABHISHEK
40.	47S_BE_5371	DEVELOPMENT OF AN AUTONOMOUS UNDERWATER VEHICLE (AUV)	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. MURALIKRISHNA	Mr. UDAY CHANDRA N. C. Mr. AKKI KOTRESH Mr. YASHWANTH T. P. Mr. AKASH N.
41.	47S_BE_3987	AUTOMATED AQUAPONICS SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. SANDEEP KUMAR K. Mrs. KUMBHAR TRUPTI RAVIKUMAR	Ms. NANDINI U. MALAVALLI Ms. NIKHITHA G. Ms. PALLAVI K. HIREGOWDAR Ms. UMADEVI M. V.

42.	47S_BE_4335	MIMO RADAR FOR SLOW AND SMALL TARGETS USING COHERENT & NON-COHERENT DETECTION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. DEVASIS PRADHAN	Ms. DIVYA DHARSHINI R. Mr. ATUL KHUNTIA Mr. KUMAR ADITYA Ms. MYTHRI R.
43.	47S_BE_0405	BLOCKCHAIN BASED ACADEMIC RESULT DISPLAY SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. PANKAJ KUMAR	Mr. CHINMAYA DANDIN Mr. AKSHALI SUMANTH Mr. MANOJ Mr. DARSHAN A. R.
44.	47S_MBA_0143	A TECHNOLOGY-POWERED SURVEY ON HOW AI AND MACHINE LEARNING IMPACTS AGRICULTURAL PROSPERITY IN INDIA	MBA	MBA	Dr. MONICA M.	Mr. ASHISH S. MENON Ms. TALARI APARNA
45.	47S_BE_4275	DESIGN AND FABRICATION OF ANIMAL FOOD MAKING MACHINE USING WASTE FRUITS AND VEGETABLE PULP	B.E.	MECHANICAL ENGINEERING	Prof. SHRIMUKHI G. SHASTRY	Mr. CHANDAN M. N. Mr. KEERTHAN B. T. Mr. YASHWANTH N.
46.	47S_BE_2959	DESIGN AND IMPLEMENTATION OF AN ARTIFICIAL INTELLIGENCE-BASED PLANT DISEASE DETECTION AND CONTROL SYSTEM.	B.E.	MECHATRONICS ENGINEERING	Dr. MANJUNATHA K. N. Prof. SANDEEP K.	Mr. YADHU KRISHNA NAIR Mr. NISHANTH KUMAR R. Mr. NISHANTH R. Mr. KEERTHI S. KUMAR
47.	47S_BE_3090	DESIGN AND DEVELOP A CHILD RESCUE ROBOT FROM BOREWELLS	B.E.	MECHATRONICS ENGINEERING	Dr. BAGHIRATHI V. Dr. MANJUNATHA K. N.	Mr. SHASHANK T. G. Mr. PAVANKUMAR P. KADAM Mr. MANOJ P. Mr. LOKESH KIRAN R.

10. ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
48.	47S_BE_4896	IOT BASED SMART IRRIGATION SYSTEM USING DUAL AXIS SOLAR TRACKER	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MADHU B. G.	Mr. CHINTHAN H. K. Mr. ARUN BELAVADI Mr. MANOJ H. K. Mr. TEJAS C. M.
49.	47S_BE_4904	HUMANOID ROBOT FOR COVID PATIENT ASSISTANCE USING RASPBERRY PI	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. MANJULA U. R. Mrs. DIVYA G. S.	Ms. BHOOMIKA B. S. Ms. AKSHATHA K. R. Ms. KAVANA S. NAIK Ms. DEVIKA M. U.
50.	47S_BE_5060	DEVELOPMENT OF HAPTIC PROSTHETIC HAND FOR REALIZATION OF INTUITIVE OPERATION USING ESP32	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. USHA PATIL Mr. HARISH KUMAR C. R.	Mr. MOHAMMED MOHTASHIM Mr. LIKHITH H. D. Mr. BHARATH A. L. Mr. MAHASOOK AHMED
51.	47S_BE_0124	AN APPROACH TO PREDICT EARLY STAGE OF BREAST CANCER USING DEEP LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. PRAMOD H. B. Mrs. ANJALI B. V.	Ms. LIKITHA C. M. Ms. MANASWINI A. M. Ms. MONIKA C. J. Ms. PAVITHRA B.
52.	47S_BE_0137	DEEPFAKE VIDEO FORGERY DETECTION USING MACHINE LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. SAMPATH S.	Ms. PRAPTHI S. Ms. AMULYA M. P. Ms. KAVYA H. L.
53.	47S_BE_0169	AN INTEGRATED AGRICULTURE SYSTEM FOR PEST DETECTION AND PESTICIDES RECOMMENDATIONS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. ANJALI B. V. Mr. KIRAN KUMAR B. M.	Ms. M. SNEHA Ms. ANANYA L. S. Ms. PRERANA A. Ms. SPANDANA M. S.
54.	47S_BE_0216	EPILEPTIC SEIZURE DETECTION USING MACHINE LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. SUMAN M. H. Mr. RAKESH RAJ	Ms. ANANYA S. Ms. PRANCHANA S. S. Ms. SURAKSHA H. P. Ms. SWATHI L. D.
55.	47S_BE_0293	SECURITY ENHANCEMENT OF FORENSIC EVIDENCE USING BLOCK CHAIN	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. ASHWINI KAMATH Mrs. DEEPASHRI K. S.	Mr. SUJAY H. C. Mr. CHANDRASHEKAR Mr. DEEPAK P. D. Mr. DILEEP KUMAR L. J.
56.	47S_BE_1424	DESIGN AND FABRICATION OF PORTABLE VERTICAL AXIS WIND TURBINE	B.E.	MECHANICAL ENGINEERING	Dr. RACHAN D. SHEKAR Prof. MADAN KUMAR K. N.	Mr. D. PRAJWAL Ms. NISARGA N. Mr. CHETHAN KUMAR M. R. Mr. SUMANTH G.

11. ADMINISTRATIVE MANAGEMENT COLLEGE, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
57.	47S_MSC_0086	BIO-FABRICATION OF MUSHROOM BASED SUSTAINABLE AND EFFICIENT BIOPOLYMER COMPOSITES	M.Sc	BIOTECHNOLOGY	Dr. MAYA M. R. Dr. P. SUDHARANI	Ms. HARSHITHA V. Ms. MAREDUGONDA NAGA SATHWIKA Ms. SWATHY SANKAR

58.	47S_MSC_0087	EXTRACTION OF A NEW, COST-EFFECTIVE FUNGAL PIGMENT FROM DAIRY INDUSTRIAL WASTE	M.Sc	BIOTECHNOLOGY	Dr. MAYA M. R. Dr. P. SUDHA RANI	Ms. CHARITHA N. Ms. BASIREDDY PREETHI Ms. TEJASWINI S.
59.	47S_MSC_0090	AN EFFICIENT MICROBIAL CONSORTIA FOR E-WAST REMEDIATION	M.Sc	BIOTECHNOLOGY	Dr. MAYA M. R. Dr. P. SUDHA RANI	Mr. SIDDHARTH DEBATOSH BANERJEE Mr. SANKET MUDALAGI

12. AKSHAYA INSTITUTE OF TECHNOLOGY, TUMAKURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
60.	47S_BE_4677	REMOVAL OF DYE FROM INDUSTRIAL WASTEWATER USING AGRICULTURAL WASTE AS A LOW-COST ADSORBENT	B.E.	CIVIL ENGINEERING	Mr. VISHAL R. KHANDAGALE	Mr. CHARAN KUMARA B. Mr. ABDUL KADHAR ZILANI Ms. MEGHANA A. S. Mr. VASANTH
61.	47S_BE_4658	RASPBERRY PI BASED SMART NAVIGATION SYSTEM FOR BLIND PEOPLE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. RAKESH S. Dr. PUSPHA R.	Mr. RAVIKUMAR Mr. SANDEEP S. Mr. SHASHIDHAR DOLLIN Mr. MALLIKARJUN
62.	47S_BE_5229	BLOCK CHAIN BASED TRACEBALITY IN AGRI FOOD SUPPLY CHAIN MANAGEMENT: A PRACTICAL IMPLEMENTATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PUSPHA R.	Ms. BHEEMASHREE Ms. ASHWINI Ms. SHRUTHI D. Ms. KAVYA SHREE B. S.
63.	47S_BE_2131	MICRO-SMART CITY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. SHRUTHI A. B.	Mr. BHIMESH MAHADEV KURABET Ms. DIVYA N. P. J. Ms. SHRISHTI NINGAPPA MIRJI Ms. APOORVA J.
64.	47S_BE_1043	DESIGN AND ANALYSIS OF AUTOMOTIVE PISTON TO OPTIMIZE ITS MATERIAL	B.E.	MECHANICAL ENGINEERING	Mr. PRAVEEN D. N. Mr. SANNAMAREGOWDA	Mr. KALLESH N. Mr. SACHIN Mr. S. DINESH Mr. RAVINDRA M. S.

13. ALLIANCE COLLEGE OF ENGINEERING AND DESIGN, ALLIANCE UNIVERSITY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
65.	47S_BE_3818	AUTOMATED VEHICLE INSPECTION LAYER STORAGE AND DATA ESTABLISHMENT STRUCTURE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHEKHAR R.	Ms. CHANDANA M. N. Ms. VEDAVATI PATIL
66.	47S_BE_4816	TRANSFORMING WASTE MANAGEMENT IN SMART CITIES WITH INTELLIGENT DUSTBIN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHEKHAR R.	Mr. K. JAYANTH REDDY Mr. MANIMARAN B.
67.	47S_BE_2627	NATURE'S WRAP: ECO-FRIENDLY PACKAGING SHEETS FROM SAL AND BANANA LEAVES	B.E.	MECHANICAL ENGINEERING	Dr. SASMITA BAL	Mr. RAVICHANDRA M. Mr. ANAND A. Mr. ARAVIND A.

14. ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, MOODBIDRI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
68.	47S_BE_1047	DRONE INVENTORY MANAGEMENT FOR RESOURCE MAPPING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. HARISH KUNDER	Mr. SATYAM PAWALE Mr. PRAJWAL P. Mr. SHRIPRASAD D. J.
69.	47S_BE_2118	THE BUNK - YOUR VIRTUAL ASSISTANT	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Mr. NAVEEN S. PAGAD Prof. HARISH KUNDER	Mr. NITIN HEMA RAJ Ms. H. BHAVANA Ms. KEERTHANA K Mr. ULLAS H. U.
70.	47S_BE_2374	AUTONOMOUS JETBOT - EXPLORER	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. HARISH KUNDER	Mr. THEJAS Ms. BHOOMIKA Mr. ANUSH L. POOJARY Mr. PREETHAM
71.	47S_BE_2377	MAZE WANDERER - AUTONOMOUS ROBOTIC PATH-FINDING SYSTEM	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. RAMESH G.	Mr. KARAN KUMAR Mr. ABDULLAH Mr. M. ASHOK KUMAR
72.	47S_BE_2621	VISION ASSISTANT FOR VISUALLY IMPAIRED PEOPLE	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Mr. SHRIKANTH N. G.	Mr. SATHYAM A. V. Mr. TARUN D. R. Mr. PRASANNA NARAYANA P. Mr. SHREYAS

73.	47S_BE_0923	ANALYSIS OF DIFFERENT SLOPE FAILURE ALONG THE ROAD SECTION OF SAKLESHPUR, KARNATAKA USING ROCK MASS ANALYSIS AND KINEMATIC ANALYSIS APPROACH	B.E.	CIVIL ENGINEERING	Dr. H. G. UMESHCHANDRA	Mr. NONGMAITHEM BORISH SINGH Ms. SADVINI K. P. Mr. RAHUL LEIMAPOKPAM Ms. PRIYANKA MALAGITTI
74.	47S_BE_1167	LABORATORY INVESTIGATION ON MUNICIPAL INCINERATOR WASTE AS A FILLER MATERIAL IN DENSE BITUMINOUS MIX FOR ROAD CONSTRUCTION	B.E.	CIVIL ENGINEERING	Prof. SHANKARGIRI K. S.	Mr. SALAM MARIN SINGH Mr. MANGAL THOIBA IRENGBAM Ms. PRAGATI T. NAIK Mr. SHIVAKUMAR K. N.
75.	47S_BE_3426	BREATHE EASY, DRINK PURE: ADDRESSING DUMP YARD POLLUTION AT VAMANJOOR, MANGALORE WITH PLANT-BASED REMEDIATION	B.E.	CIVIL ENGINEERING	Prof. SURENDRA P.	Mr. M. R. BHARATH Mr. KAUSHIK Mr. SAHIL SHETTY Mr. VIDYANANDA
76.	47S_BE_0849	CHARGING STATION FOR E-VEHICLE USING SOLAR WITH IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. PRASHANTH KUMAR	Ms. DEEKSHITHA S. R. Ms. CHANDANA M. Ms. DISHA SHETTY Ms. HARSHITHA N. P.
77.	47S_BE_0905	DRONE BASED DISEASE DETECTION IN CROPS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. CHANDRA NAIK	Mr. SHEBIN THOMAS Mr. SHARATH S. KANCHAN Mr. SHARAT R. NAIK
78.	47S_BE_0952	AN INDEPENDENT AUTOMATIC SYSTEM TO DETECT THE PRESENCE OF VIOLENCE DETECTION USING DEEP LEARNING TECHNIQUE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. GIRIDHAR GOWDA Mrs. VIDYA	Ms. SUSHMITHA E Ms. SINCHANA R. NAIK Ms. SPANDHANA Ms. VEENA G. T.
79.	47S_BE_1293	ANOMALY DETECTION IN REAL TIME SURVEILLANCE SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. MAHESH KINI M. Mrs. VIDYA	Mr. S. VISHWESH NAYAK Ms. RAKSHA Ms. RAMYASHREE Mr. RANJITH R. GANIGA
80.	47S_BE_3554	MACHINE LEARNING AND IOT BASED WASTE MANAGEMENT MODEL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. G. SRINIVASAN	Mr. PRUTHVIRAJ K. L. Mr. RAHUL Mr. PAVAN KUMAR V. Mr. RACHITH M. R.
81.	47S_BE_1381	DESIGN AND IMPLEMENTATION OF SELF DRIVEN VEHICLE USING SALM TECHNOLOGY AND COMPUTER VISION - A PROTOTYPE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. D. V. MANJUNATHA Prof. NEPOLIAN	Mr. ROHAN H. Ms. RAKSHITHA S. Ms. RAMYA K. Mr. VISHWANATH M.
82.	47S_BE_2052	AUTO DELIVERY BOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. VIJETHA T. S.	Mr. PAVAN K. H. Mr. AKSHAY Ms. CHAITHRASHREE M. G. Mr. PRATHAM
83.	47S_BE_2265	ANTI POACHING ALARM FOR VALUABLE TREES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. BHAGYASHREE K.	Ms. SHRIDEVI Ms. DISHA H. Ms. SHRUTHI Ms. SHWETHA
84.	47S_BE_1194	EFFICIENT MESSAGE TRANSMISSION USING HYBRID CRYPTOGRAPHY	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. JAYANTKUMAR A. RATHOD	Ms. SHWETHA R. SHARMA Ms. CHANDANA P. T. Ms. KEERTHANA G. Ms. SWETHA S.
85.	47S_BE_1482	IDENTITY MANAGEMENT SYSTEM USING BLOCKCHAIN	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. PRADEEP V.	Mr. ABHISHEK R. BHAT Mr. MOHAMMAD SUFIYAN Mr. PRASAD R. ACHARI Mr. SUJAN P. S.
86.	47S_BE_1608	VEIN BIOMETRIC RECOGNITION ON SMARTPHONE	B.E.	INFORMATION SCIENCE AND ENGINEERING	Ms. LOLAKSHI P. K.	Ms. MEGHANA K. Ms. CHANDANA A. S. Ms. MADHU M. Ms. VARSHA A. M.
87.	47S_BE_1729	VISITOR FACE AUTHENTICATION DESIGN USING OPEN CV	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. PRADEEP V.	Ms. LIKHITA K. M. Mr. RAVINDRA REDDY Mr. SHASHANK BIRADAR Mr. SURAJ S. ANKOLEKAR
88.	47S_BE_1171	HUMIDITY CONTROLLED SOLAR PEPPER DRYER	B.E.	MECHANICAL ENGINEERING	Mr. VIRENDRA KUMAR KAMBOLI Mr. SHARATHCHANDRA PRABHU	Mr. VIGNESH Mr. ADWITH KUMAR Mr. VARUN S. Mr. SWAHID
89.	47S_BE_1198	DESIGN AND FABRICATION OF SOLAR-POWERED MANUAL CUTTING DEVICE FOR HARVESTING TEA LEAVES	B.E.	MECHANICAL ENGINEERING	Mr. DEEPAK KOTHARI	Ms. JENNY FERNANDES Ms. NAVYASHREE H. B. Ms. PALLAVI P. Mr. SANDEEP JARALE

15. AMRITA VISHWA VIDYAPEETHAM BENGALURU CAMPUS, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
90.	47S_BE_2462	EMG BASED PROSTHETIC HAND WITH ADAPTIVE GRASPING ENHANCED BY COMPUTER VISION	B.E.	COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE ENGINEERING	Dr. MANJU KHANNA	Mr. GAURANG CHAUDHARY Mr. HITESH TUMPUDI Mr. ARJUN MENON Mr. NITISH NARAYAN
91.	47S_BE_4818	A COMPARATIVE ANALYSIS OF SWARM ALGORITHMS FOR ENHANCED COMMUNICATION IN DRONE NETWORKS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. NALINI SAMPATH Dr. ANAND R.	Mr. DOVVALA RUTHWIK Ms. CHAVA SRIYA CHOWDARY Mr. KANCHARLA NITISH SAI Mr. SUTHAPALLI RISHIK
92.	47S_BE_2035	A GESTURE VOCALIZER TRANSLATION SYSTEM FOR EFFICIENT COMMUNICATION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Ms. PRIYA B. K.	Ms. C. G. PRIYA Ms. ANANYA MURALIDHARAN Mr. GOUTHAM P. KEERIYAT
93.	47S_BE_2039	PREDICTIVE MAINTENANCE OF BATTERY FOR EV PROTOTYPES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Ms. PRIYA B. K.	Mr. CHINCHU DHEEMANTH Mr. CHERLOPALLI JAIDEEP Ms. TUGU MOHITHA SAI
94.	47S_BE_2554	LANDMINE DETECTION USING ROBOTIC VEHICLE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Ms. PRIYA B. K.	Mr. VADAPALLI CHIRANJEEVI SAI NITHEESH Mr. VASIREDDI SRI VEERA VENKATA RAMGANESH Mr. ACHIMSETTY BHARADWAJ

16. AMRUTA INSTITUTE OF ENGINEERING AND MANAGEMENT SCIENCES, BIDADI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
95.	47S_BE_2227	AGRICULTURE FIELD MONITORING USING LOW-POWER WIDE AREA NETWORK BASED LAND ROVER	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ANIL KUMAR	Ms. TAIYABA FATHIMA Ms. CHITHRASHREE U. V. Mr. MOHAMMED KHADEEMIL IKRAM S. Mr. ABHINANDAN

17. ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELAGAAVI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
96.	47S_BE_3429	AN INTEGRATED SYSTEM FOR DEPRESSION DETECTION, ANALYSIS & PROVIDING PERSONALIZED SUPPORT	B.E.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	Dr. DHANASHREE KULKARNI Mr. CHETAN PATIL	Mr. SAMBRAM S. ARKASALI Mr. NISHANT R. BHANDARE Ms. PRIYANKA S. YALAMELI Mr. MOHAMMADZAID KHAN
97.	47S_BE_3016	STUDY ON TREATMENT OF TURBID WATER USING BAUXITE TAILINGS AS A COAGULANT	B.E.	CIVIL ENGINEERING	Dr. B. T. SURESH BABU	Ms. SAVITA S. MULIMANI Ms. ASHWINI J. DULARI Mr. MAHESH S. ULLAGADDI
98.	47S_BE_3712	SMART GLASSES FOR VISUALLY IMPAIRED PEOPLE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. GAUTAM DEMATTI	Mr. VIJAYKUMAR R. Ms. AKSHATA TEGGI Ms. DIVYA S. GUDDADAMANI Ms. LAXMI C. NAIK
99.	47S_BE_3789	E-HEALTH MONITORING WITH DIET AND FITNESS RECOMMENDATION USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SONAM BHANDURGE	Mr. RITESH SHARMA Mr. SHEKHFHARDIN SANADI Mr. SUNIL V. PATRUT Mr. VINAY SHELAKE

100.	47S_BE_3862	HARNESSING WIND ENERGY FROM VERTICAL AND HORIZONTAL AXIS WIND TURBINE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. RAJENDRA GHIVARI	Mr. GIRIBHATTANAVAR PRANAV GURURAJ Mr. KARTIK SIDDAPPA MUDDLINGANAVAR Mr. AKHIL MAHALING NAGANAVAR
101.	47S_BE_3870	M SHAPE LOW-COST SOLAR STILL FOR RURAL AND ISOLATED COMMUNITIES	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. KANTESH D. C.	Mr. SHREYAS B. MATHAPATI Mr. AVINASH P. AWATI Mr. SHRIDHAR C. MAGADUM
102.	47S_BE_3733	EMBEDDED BASED UNDERGROUND WATER LOCATER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. G. R. UDUPI Prof. GURURAJ KULKARNI	Mr. MAHALINGAPPA SHRISHAIL HUCHAGOUDAR Mr. RAHUL RAMESH RAJMANE Ms. POOJA D. Ms. PRERANA P. MASGUPPI
103.	47S_BE_4962	ARTIFICIAL INTELLIGENCE BASED NIGHT VISION PATROLLING ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SRIRAM K. V.	Ms. VEENA R. KAMMAR Ms. SAHANA DIXIT Ms. AKSHATA GADAD Ms. KAVERI HATTI

18. ANJUMAN INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BHATKAL

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
104.	47S_BE_5356	AN EXPERIMENTAL STUDY ON STABILITY ANALYSIS OF A HIGHWAY CUT ADJACENT TO NH66 IN BHATKAL USING PLAXIS-2D	B.E.	CIVIL ENGINEERING	Dr. CHIDANAND NAIK	Ms. M. SWETHA Mr. RAYYAN Ms. TEJASWINI NAIK
105.	47S_BE_3888	AEROPONICS SYSTEM FOR SUSTAINABLE USE OF WATER AND NUTRIENTS USING MACHINE LEARNING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. KIRAN VINAYAK SHANBHAG Prof. MADHEEHA FATHIMA	Mr. VARUN VISHNU HEGDE Ms. AKSHATA VENKATRAMAN NAIK Ms. TUQA Mr. ASHWIN MANJAPPA DEVADIGA

19. ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
106.	47S_BE_0698	IMPLEMENTATION OF ODK MOBILE APP FOR DATA COLLECTION & MONITORING OF LAKES IN BANGALORE	B.E.	CIVIL ENGINEERING	Mrs. PRIYANKASHRI K. N. Dr. SURENDRA H. J.	Mr. HARSHA M. Y. Mr. KESHAV REDDY L. Mr. CHARAN SRINIVAS B. S.
107.	47S_MCA_0059	SMART HAND GESTURE GENERATOR	M.C.A.	COMPUTER APPLICATIONS	Prof. VASANTH C. BHAGAWATH Prof. JASMINE J. C. SHIJI	Ms. CHANDANA B. M. Ms. AISHWARYA S. BASANAGOUDRA Ms. LAVANYA H. T.
108.	47S_BE_0351	EMPOWERING SOCEITY-VIA AI INFUSED	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. DEVI KANNAN Dr. MANASH SARKAR	Ms. SINCHANA RAJESH Ms. S. BHAVYASHREE Ms. YUKTHA DAS M. Ms. CHANDANA G.
109.	47S_BE_0061	AQUASTREAM INTEGRATED COMMUNICATION SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SPOORTHI S. P.	Mr. YASHVARDHAN M. Ms. TAANYA R. PATIL Ms. MEGHA RAJPUT Ms. MANASA M. S.
110.	47S_BE_0080	QUADCOPTER IN AGRICULTURE DEVELOPMENT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. GAYATHRI JOSHI	Mr. HARISH N. Mr. AJJE PAVAN KUMAR Mr. CHETHAN H. R. Mr. ROHITH KUMAR L.
111.	47S_BE_0599	AUTONOMOUS INSTANT CHECKOUT SYSTEM USING IMAGE PROCESSING AND MACHINE LEARNING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. PUSHPA Y. Dr. KESHAVAMURTHY	Mr. TARUN S. Mr. KUSHAL L. G. Mr. PUNEETH D. Mr. ROSHAN B. S.
112.	47S_BE_0606	ENHANCED VISION: A MACHINE LEARNING APPROACH FOR SMART GLASSES AIDING THE VISUALLY IMPAIRED	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SOMESH B. S.	Ms. SHWETHA SATISH Ms. KEERTHANA R. Mr. SHAIK BABA HASSAN Ms. SPOORTHY S.

113.	47S_BE_1157	HAWK-EYE: AN AI BASED WEAPON DETECTOR IN THE CROWDED AREA OF SMART CITY FOR INTELLIGENT SURVEILLANCE CAMERAS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. KESHAVAMURTHY	Ms. KALVA RAMYA SREE Ms. BHAVANA H. B. Ms. NIKHITHA GOTTUMUKKALA Ms. HITHASHREE
114.	47S_BE_0431	DEVELOPMENT OF AN AUTONOMOUS FLOOR CLEANING ROBOT USING ANDROID APPLICATION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. OMPRAKASH B. Dr. ANANDA KUMAR K. S.	Ms. SWATHI G. S. Ms. RAKSHITHA D. M. Ms. RAKSHITHA S.
115.	47S_BE_0442	SIGN LANGUAGE TO SENTENCE CONVERSION USING LARGE LANGUAGE MODEL (LLM)	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. VINOTH KUMAR S.	Ms. ADITI R. GRAMPUROHIT Mr. ABHISHEK KODURU
116.	47S_BE_0562	READMATE - FOR VISUALLY IMPAIRED USING RASPBERRY PI	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. SONIA S. B.	Ms. HIBAH FATHIMA Ms. ADITI R NANDANIKAR
117.	47S_BE_0648	ANDROID MALWARE DETECTION BASED ON CO-EXISTENCE OF FEATURES	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. OMPRAKASH B.	Ms. ANISHA KONAR Ms. SHWETHA N. K. Mr. CHIRANTHAN K. K.
118.	47S_BE_1196	OPTIMIZATION OF HR RECRUITMENT PROCESS USING LARGE LANGUAGE MODEL(LLM)	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. VIJAYALAKSHMI V.	Ms. SHARANYA AVADHANI M. U. Ms. ANANYA A.
119.	47S_MBA_0124	A STUDY OF RESOURCE CONSTRAINTS IN MATERNAL AND NEONATAL HEALTH IN RURAL KARNATAKA	MBA	MBA	Dr. RICHA DAS	Mr. MAHENDRA MANCHIKALAPATI Mr. AMOGH B. G.
120.	47S_BE_0876	DESIGN AND FABRICATION OF NEW GENERATION AUTOMATED 360^0 DRILLING MACHINE	B.E.	MECHANICAL ENGINEERING	Dr. HARISH KUMAR N. S.	Mr. HARSHITH V. PATIL Mr. GANESH GOWTHAM J. Mr. VARUN N.
121.	47S_BE_1215	DESIGN AND FABRICATION OF SPEED BUMP BY USING NON- NEWTONIAN FLUID	B.E.	MECHANICAL ENGINEERING	Mr. ANIL KUMAR B. N.	Mr. DHANUSHEKAR V. Mr. MUKUL RAJKUMAR Mr. SAI PAVAN B. G. Mr. SUJEETH KUMAR

20. B.G.S. INSTITUTE OF TECHNOLOGY, MANDYA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
122.	47S_BE_4312	EXPERIMENTAL STUDY ON COMPRESSIVE STRENGTH OF CONCRETE USING TREATED WASTEWATER	B.E.	CIVIL ENGINEERING	Mr. SACHIN M. S. Mr. AMITH B. J.	Mr. PRASANNA KUMAR P. S. Mr. SHEETHAL JAIN S. P. Mr. HRUTHIK R. Mr. HEMANTH PATEL Mr. YASHWANTH G. P.
123.	47S_BE_0561	DETECTION OF CARDIOVASCULAR DISEASE IN ECG IMAGES USING MACHINE LEARNING AND DEEP LEARNING METHODS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. PRASANNA KUMAR M. J.	Ms. NAVYA G. N. Ms. USHA K. A. Ms. NAYANA V. L. Ms. KAVYASHREE C. R.
124.	47S_BE_0825	DETECTION BRAIN TUMOR USING CNN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. KAVYASHREE N.	Ms. SINCHANA S. Y. Ms. AMRUTHA J. Ms. BHOOMIKA N. Ms. DIMPLE A. R.
125.	47S_BE_1144	ANTI-SLEEP GLASSES USING AI TO PREVENT ACCIDENTS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. SUNAD KUMARA A. N.	Ms. KEERTHANA T. S. Mr. KEERTHI RAJ J. Mr. JASHWANTH GOWDA S. Mr. MANOJ C. D.
126.	47S_BE_1329	ONLINE WEB BASED CASTING THE BALLOT FRAMEWORK UTILIZING BIOMETRIC, OTP AND AADHAR CONNECTING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. UMA H. R.	Mr. ROHAN GOWDA R. Ms. MONIKA H. R. Mr. SHREEDHARA G. T. Ms. SONASHREE N.
127.	47S_BE_1145	EMBEDDED BASED AUTOMATED CAR JACK SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. NAVEEN K. B. Dr. MANOJ KUMAR S. B.	Ms. DEEKSHITHA H. N. Ms. AMULYA S. Mr. SANDESH S. GOWDA Ms. THEJASWINI N.
128.	47S_BE_2416	DEEPFAKE DETECTION USING DEEP LEARNING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. NETHRAVATHI H. M.	Mr. HRISHIKESH KUMAR K. N. Mr. AKHILESH S. B. Ms. HARSHITHA M. N. Ms. MANJUSHREE H. B.

129.	47S_BE_3211	INTELLIGENT UNMANNED ROBOT USING IOT FOR MILITARY APPLICATIONS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. MANOJ KUMAR S. B. Dr. P. S. PUTTASWAMY	Ms. NITHYA D. B. Ms. CHANDANA S. Mr. PAVAN GOWDA K. N. Ms. VARSHINI P. L.
130.	47S_BE_3319	EXPLORING SINGLE HAND 3D PRINTED PROSTHETIC ROBOTIC TECHNOLOGY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. NAVEEN B. Mr. GOUTHAM V.	Mr. SHRAVAN A. L. Ms. MEGHANA M. S. Ms. PRIYA D. Mr. ULLAS B. C.
131.	47S_BE_5279	TECH TREK: REVOLUTIONIZING CAMPUS EXPLORATION WITH AUTONOMOUS GUIDES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. NISCHITHA S.	Mr. SHASHANK H. S. Ms. CHANDANA B. A. Mr. SANJAY H. R. Mr. SOURABH BAHUBALLI BARAGALE
132.	47S_BE_0478	SUSPICIOUS ACTIVITY DETECTION USING DEEP LEARNING APPROACH	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. YOGAPRAKASH M. G. Mr. SRIDHAR N.	Ms. DEEPU A. B. Ms. ARUNA BALI Ms. INCHARA P. Mr. RITHESH K. T.
133.	47S_BE_0537	DETECTION OF DIABETIC RETINOPATHY BASED ON NEURAL NETWORKS USING FUNDUS IMAGES	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. SRIDHAR N. Mr. YOGAPRAKASH M. G.	Ms. SNEHA R. Ms. CHANDANA M. Ms. KUSUMA H. M. Ms. NAMRATHA M. K.
134.	47S_BE_0551	FINDING MISSING PERSON USING MTCNN	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. KSHAMA K. B. GIRI	Ms. VARSHA K. Ms. ANANYA G. Ms. NISARGA G. Ms. PRERANA R.
135.	47S_BE_0822	PREDICTIVE MODELLING FOR LIVER DISEASE DIAGNOSIS USING MACHINE LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. VIDHYA S. G. Mr. YOGAPRAKASH M. G.	Mr. DARSHAN GOWDA S. R. Ms. BHAVANA M. R. Mr. PRAJWAL K. J. Mr. PRATEEK J.
136.	47S_MBA_0042	RE-USAGE OF PLASTIC	MBA	MBA	Mrs. BEENA P.	Mr. GOWDA ANAND DEVRAJ Ms. NEEMU M. Mr. GURUPRASAD H. A.
137.	47S_BE_3638	IOT BASED BATTERY MANAGEMENT FOR ELECTRIC VEHICLES	B.E.	MECHANICAL ENGINEERING	Dr. HEMARAJU	Mr. AKASH R. Mr. NANDAN B. C. Mr. VISHAL PRAJWAL N. Mr. YASHWIN P.
138.	47S_BE_3914	IMPACT OF CERIUM OXIDE NANO ADDITIVES ON THE PERFORMANCE CHARACTERISTICS OF A CI ENGINE FUELED WITH COTTON SEED METHYL ESTER BLENDS	B.E.	MECHANICAL ENGINEERING	Mr. KEERTHI B. L.	Mr. THEJAS D. R. Mr. MANOJ B. K. Ms. RAKSHITHA M. Mr. SUMANTH GOWDA R.
139.	47S_BE_5334	AUTOMATED WASTE SEGREGATOR	B.E.	MECHANICAL ENGINEERING	Mr. HEMANTH C.	Mr. RAKSHITH N. R. Mr. DINESH Y. Mr. MANJUNATH M. Mr. KARTHIK H HIREMUTT Y. H.

21. B.L.D.E. A'S V.P. DR. P.G. HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
140.	47S_BE_2622	IMPLEMENTATION OF SOIL BIOENGINEERING TECHNOLOGY TO PREVENT SOIL EROSION AND LANDSLIDES.	B.E.	CIVIL ENGINEERING	Mrs. P. S. BIRADAR	Ms. SUSHMA METRI Ms. ROOPA DODAMANI Ms. SHWETA HIREMATH Ms. SOUMYA PATIL
141.	47S_BE_5040	SHINING PATH TO FUEL SUSTAINABILITY-BIOFUEL GENERATION USING CHLORELLA VULGARIS AND DUAL-COLOUR PHOTO-BIOREACTORS	B.E.	CIVIL ENGINEERING	Dr. ANURADHA TANKSALI Prof. PRABHU KINAGI	Mr. JAYACHANDRA JADHAV Mr. ISHWAR BALIKAI Mr. HARSH KOTENNAVAR Mr. ARUN INCHUR
142.	47S_BE_5322	WASTEWATER FARMING IMPACTS ON WATER RESOURCES OF HANCHINAL REGION	B.E.	CIVIL ENGINEERING	Dr. ANURADHA TANKSALI Prof. SANGANAGOUDA PATIL	Mr. RAVI MELLIGERI Mr. NAVEEN BADADAL Mr. CHANDRAKANT KARNAL Mr. SARTHAK PATIL
143.	47S_BE_1049	KANNADA ABSTRACTIVE TEXT SUMMARIZATION USING SEQUENCE TO SEQUENCE MODEL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. DAKSHAYANI M. IJERI	Ms. SNEHA G. SAJJAN Ms. ALIYA BARGUDI Ms. RITIKA GANGAVATI
144.	47S_BE_1188	LANE DETECTION AND TRACKING IN VARIOUS CHALLENGING CONDITIONS USING VIDEO PROCESSING TECHNIQUES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHWETA PATIL	Ms. PRATIKSHA P. PATIL Mr. BADRI M VAIDYA

145.	47S_BE_1204	DEEP LEARNING BASED RESPIRATORY SOUND ANALYSIS TO DETECT CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SANTOSH DEWAR	Ms. ANJANA HIROLI Ms. AKANKSHA A. RUDRAGOUDAR Ms. AISHWARYA HIROLLI
146.	47S_BE_3923	HUMAN KNEE JOINTS SYNOVIAL FLUID REGION DETECTION AND ABNORMALITY CLASSIFICATION USING DEEP LEARNING MODELS.	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. PAVAN D. MAHENDRAKAR Dr. LEENA RAGHA	Ms. MRUTUNJAY GUDDODAGI Ms. ALMEL POOJA SHRIMANT Ms. DHAGE KAJAL SHYAM Mr. MULLA TAUHEED SALIM
147.	47S_BE_5166	SMART ANTI-THEFT CONTROL SYSTEM USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. M. N. PATIL	Mr. PRASHANT S UKKALI Mr. DARSHAN D SHATGAR Ms. POOJA B RATHOD Ms. PRIYA B METRI
148.	47S_BE_2438	MACHINE LEARNING BASED DISEASE DETECTION IN VINEYARDS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. VISHWANATH.S. CHIKKAREDDI	Ms. SUPRIYA GOLAGOND Ms. SAHANA GOLAGOND Ms. SNEHA ANGADI Ms. VAISHNAVI GANACHARI
149.	47S_BE_2602	SECURE DATA USING DEEP LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. S. B. BIRADAR	Ms. NANDINI RAJPUT Mr. AKHILESH YALASANGI Ms. DEEKSHA HOLI Mr. PRASANNA HALALLI
150.	47S_BE_2895	PRESERVING PRIVACY OF CLOUD DATA USING ML BASED DIFFERENTIAL APPROACH	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. PRADEEP DESHPANDE	Mr. VEERESH Ms. ACHAL BELLAD Mr. MANJUNATH LAGAMANNA PUJARI Ms. VAISHNAVI C. H.
151.	47S_BE_1480	ONION HARVESTING DRIVE	B.E.	MECHANICAL ENGINEERING	Dr. SAMEER S. KULKARNI Prof. V. S. KONNUR	Mr. ADINATH IJARI Mr. VEERESH UMMARJI Mr. SAVAN CHAVAN Mr. SOMANATH DHARPAL
152.	47S_BE_3770	MANUFACTURING OF ECO-FRIENDLY PAINT FROM COW DUNG	B.E.	MECHANICAL ENGINEERING	Dr. B. M. ANGADI Prof. S. S. CHAPPAR	Mr. SURAJ PARAMASHETTI Mr. MD ADNAN INAMDAR Mr. MD SAIF SHAIKH
153.	47S_BE_4730	DEVELOPMENT AND FABRICATION OF BICYCLE POWERED WATER PURIFYING SYSTEM	B.E.	MECHANICAL ENGINEERING	Dr. I.G. BHAVI	Mr. AKSHAY PATTANASHETTI Mr. ABHISHEK KOTALI Mr. RAGHAVENDRA BIRADAR Mr. CHETAN DHUMALE

22. B.M.S. COLLEGE OF ENGINEERING, BULL TEMPLE ROAD, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
154.	47S_BE_0895	DESIGN AND DEVELOPMENT OF AN EFFICIENT MONITORING ALGORITHM IN THE FIELD OF APICULTURE	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. PALLAVI B.	Ms. ADVAITH V. Ms. ANUSHKA SHIVKUMAR Mr. MANCHIKANTI VARUNSAI
155.	47S_BE_4595	COMPUTATIONAL PREDICTION FOR PRECISION DRUG DISCOVERY FOR EFFICIENT AND ECONOMICAL SOLUTIONS IN PHARMA INDUSTRY	B.E.	BIOTECHNOLOGY	Dr. SAVITHRI BHAT Dr. RASHMI S. SHENOY	Ms. BRINDA M. Ms. MEDHA RAJ REDDY R. Ms. SHARAVARI GIRISH DURWAS Mr. LALIT S.
156.	47S_BE_1820	STUDIES ON BOND STRENGTH CHARACTERISTICS OF GFRP REBARS IN ALKALI ACTIVATED SLAG CONCRETE MIXES	B.E.	CIVIL ENGINEERING	Dr. MANJUNATH R.	Mr. MOHAN KUMAR H. V. Mr. MOHITH KOTNADA Mr. MD FAZAL Mr. KARTHIK M.
157.	47S_BE_2884	PERFORMANCE EVALUATION OF COMPRESSED STABILISED MUD BRICKS MADE WITH RICE HUSK ASH BASED BINDERS	B.E.	CIVIL ENGINEERING	Dr. VIBHA VENKTARAMU	Mr. ABHISHEK K. RATHOD Mr. AJAY PAWAR Mr. ANIKETH P. Mr. B. G. SACHETH
158.	47S_BE_4041	PHARMACEUTICALS AND PERSONAL CARE PRODUCTS REMOVAL FROM WASTEWATER USING ELECTROCHEMICAL TECHNIQUE	B.E.	CIVIL ENGINEERING	Dr. MANJUNATH S. V.	Ms. SAMRIDDHI TIWARI Ms. ANANYA PALAIAH Mr. DARSHAN N. Mr. GAGAN R. NAIK

159.	47S_BE_4790	DAMAGE DETECTION OF DISTRESSED RC BEAMS SUBJECTED TO VIBRATION DUE TO MOVING LOADS ADOPTING LOW COST IOT SENSORS AND RETROFITTING OF SUCH RC BEAMS ADOPTING SUSTAINABLE MATERIALS(GFRP)	B.E.	CIVIL ENGINEERING	Prof. Y. K. GURUPRASAD	Mr. MUHAMMAD ZAMZAM K. S. Mr. GAGAN DEEPAK V. Mr. GAGAN GOWDA H. P. Mr. H. G. SURYA
160.	47S_MTech_0005	PERSULFATE BASED PHOTOCATALYTIC SYSTEM FOR SIMULTANEOUS OXIDATION OF PHARMACEUTICAL COMPOUNDS FROM WASTEWATER	M.Tech	ENVIRONMENTAL ENGINEERING	Dr. MANJUNATH S. V.	Mr. PRITHVIRAJ B.
161.	47S_MTech_0085	APPLICATION OF LEAF BIOMASS HYDROCHAR AS A SUSTAINABLE METHOD FOR IMMOBILIZING HEAVY METALS IN CONTAMINATED SOILS	M.Tech	ENVIRONMENTAL ENGINEERING	Prof. PRATHIMA B. Dr. SAINATH K.	Ms. SAGANI SAI GAYATHRI
162.	47S_BE_4069	IOT-INTEGRATED DIGITAL TWIN FOR COW HEALTH MONITORING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. NALINA V.	Ms. ADITI SANKARANARAYANAN Ms. DIYA SHETTY Ms. KIRTI CHETWANI
163.	47S_BE_4856	DEVELOPMENT OF ANKLE EXOSKELETON FOR TESTING CONTROL STRATEGIES	B.E.	MECHANICAL ENGINEERING	Prof. G. KARTHICK	Mr. RAJATH V. Mr. HEMANTH S. RAAJAN Mr. SANKARSH S. Mr. SATWIK VERMA
164.	47S_MTech_0080	INTERACTIVE ENERGY MONITORING AND OPTIMIZATION SYSTEM FOR MICROBIAL FUEL CELL BASED ELECTRICITY GENERATION	M.Tech	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. NETHRAVATHI S. Dr. B. VENKATESH	Mr. NAGENDRA REDDY H.
165.	47S_BE_2236	WEARABLE HEART MONITOR FOR DETECTION OF BRADYCARDIA AND ATRIAL FIBRILLATION	B.E.	TELECOMMUNICATION ENGINEERING	Dr. C. GURURAJ	Ms. PALLAVI U. SHARMA Mr. SYED AFNAAN AHMED Ms. ANANYA HEBBAR

23. B.M.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, YELAHANKA, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
166.	47S_BE_2591	DEVELOPMENT OF FRC BAFFLE BLOCKS FOR EFFICIENT ENERGY DISSPATION ON CHUTE SPILLWAY TO CONTROL FLOODING	B.E.	CIVIL ENGINEERING	Mrs. ARCHANA K.	Ms. ANKITHA R. Ms. SUPRITHA A. R. Ms. SHEETAL L. Ms. SPARSHA K.
167.	47S_BE_2876	A TECHNO-ORGANIC APPROACH TO ENHANCE SLOPE STABILITY IN LANDSLIDE-PRONE ENVIRONMENTS	B.E.	CIVIL ENGINEERING	Mrs. SHIMNA MANOHARAN	Ms. P. V. SAI DEDEEPYA Ms. PRAKRUTHI B. REDDY Ms. AATINA ALTAF Mr. SYED AFFAN
168.	47S_MCA_0048	SMART DOCTOR	M.C.A.	COMPUTER APPLICATIONS	Prof. DWARAKANATH G. V.	Mr. PRAMOD N. Mr. AKASH T. M.
169.	47S_BE_3127	VIRTUAL REALITY-BASED RURAL EDUCATION FOR IMMERSIVE LEARNING EXPERIENCE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SRIVANI P.	Mr. KARTHIK PRABHU Mr. JAYANTH R. Mr. KEVAL KRISHNA Mr. MOHAMMED YUSUF ISMAIL
170.	47S_BE_2557	ANALYSIS OF PHYSIOLOGICAL SIGNALS USING MACHINE LEARNING FOR INVOLUNTARY EMOTION DETECTION ON IOT DEVICE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. VIJAYALAKSHMI G. V.	Mr. ACHYUTHA GOWDA C. P. Mr. ALLA VAMSI KRISHNA Mr. LETI MANISH KUMAR
171.	47S_BE_2363	BRAIN CONTROLLED ROBOTIC ARM	B.E.	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	Dr. THEJASWINI S. Dr. SUMATHI M. S.	Ms. KAVYA C. V. Ms. AARVI SHARMA Ms. B. C. LIKITHA Ms. SWETHA D.
172.	47S_BE_2870	LEUKOLUMINARY: REVOLUTIONIZING LEUKEMIA DIAGNOSIS THROUGH ADVANCED MICROSCOPIC IMAGING AND MACHINE LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. BHAVYA G.	Ms. SRI SOWMYA VISHNUBHOTLA Ms. SUCHITHRA R. Ms. SYEDA HAFSA NAAZ Ms. SAMIKSHA KUMARI
173.	47S_BE_2037	SOLAR TRACKING PV PANEL WITH AUTOMATED CLEANING SYSTEM	B.E.	MECHANICAL ENGINEERING	Dr. RAVICHANDRA K. R.	Mr. TARUN R. Mr. VIJAY HEMANTH T. Mr. NAVEEN M. Mr. SHYLESH A.
174.	47S_BE_2458	SOLAR POWERED WIRELESS EV CHARGING SYSTEM	B.E.	ELECTRONICS AND TELECOMMUNIC	Dr. MALLIKARJUNA GOWDA C. P.	Mr. AKASH M. Ms. DEEPTHI S. GOWDA

				ATION ENGINEERING	Dr. SARITHA I. G.	Ms. DIYA S. Ms. MANSI LOHITASHWA

24. B.N.M. INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
175.	47S_BE_3998	AUTOMATED WATER METER READER	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. CHAYADEVI M. L.	Mr. PRAJWAL V. Mr. SAI ADITHYA A. Mr. RAHUL I. V.
176.	47S_BE_3758	AQUA ELIXIR	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. REKHA P. Dr. BHARATHKUMAR HEGDE	Ms. HARSHITHA K. S. Mr. B. K. KRUTIN Ms. KAVANA K. P.

25. B.V.V. SANGHA'S BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
177.	47S_BE_3595	AMINO ACID SEQUENCING OF LIPASE ENZYME PRODUCED BY LYSINIBACILLUS MACROIDES FOR BIO-DIESEL PRODUCTION	B.E.	BIOTECHNOLOGY	Dr. JAYACHANDRA S. Y. Dr. SHILPA K. JIGAJINNI	Mr. YOHITH N.
178.	47S_BE_3549	PERFORMANCE OF GEO-SYNTHETIC ENCASED SINGLE AND GROUP OF STONE COLUMN WITH LAYERED SOIL	B.E.	CIVIL ENGINEERING	Prof. S. M. SHRINGERI	Ms. REETIKA C. BASUTKAR Mr. PRANAV Mr. VINAYAK METRI Ms. SUSHMITA S. HIREMATH
179.	47S_BE_3619	PERFORMANCE OF HORIZONTAL SUBSURFACE FLOW CONSTRUCTED WETLAND FOR HOUSEHOLD WASTEWATER	B.E.	CIVIL ENGINEERING	Dr. JAYALATHA N. A.	Ms. SOUMYA G. PATTAR Ms. VAISHANVI P. HONAKUNTI Mr. MUBARAK B. M.
180.	47S_BE_2442	BRIDGING THE GAP: REAL-TIME SIGN LANGUAGE TRANSLATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. S. R. KARJOL	Mr. MOHAMMED MUJTABA M. MULLA Mr. ABHISHEK CHANNABASAVARAJ KINAGI Mr. AVANEESH N. DEVAREDDI Mr. PRAJWAL SIDDAPPA HALLUR
181.	47S_BE_2968	IOT BASED CONTROL MECHANISM FOR SOLAR PHOTOVOLTAIC BASED WATER PUMPS EMPLOYED FOR WATER DISTRIBUTION IN BEC CAMPUS.	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. BASANAGOUDA F. RONAD	Mr. RASOOL AHMED
182.	47S_BE_4126	FIRE FIGHTING ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. NAGARATHNA R. Dr. J. D. MALLAPUR	Ms. BHAGIRATHI MALLAPPA BAJANTRI Ms. GOUTAMI BASAVARAJ BHAVIKATTI Ms. KAVYANJALI S. AMMINABHAVI Ms. SAPNA BASAVARAJ YARANAL
183.	47S_BE_5025	ROBOTIC REHABILITATION FOR PARALYZED ARM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. B. VEERESH	Ms. TANUSHREE SURESH HUGAR Ms. ANUSHA MALLIKARJUN IJERI Ms. SPURTHI SANGAYYA CHOUKIMATH
184.	47S_MTech_0029	MICROBIAL FUEL CELL CONSTRUCTION FOR SUSTAINABLE BIO-ENERGY GENERATION AND WASTEWATER TREATMENT	M.Tech	ENVIRONMENTAL ENGINEERING	Dr. JAYALATHA N. A. Dr. G. B. MEGERI	Ms. SHAINAJ L. NAYKODI
185.	47S_BE_1746	CYPHER CAM USING IOT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SHIDDALINGESH HIREMATH	Mr. ADARSH HIPPARAGI Mr. ANAND TIPPANNA AMBIGER Mr. ARUN LACHCHAPPA AMBIGER Mr. BASAVARAJ SHRISHAIL HALYAL
186.	47S_BE_1503	COMPARATIVE STUDY ON MECHANICAL PROPERTIES OF WASTE REINFORCED MUD-BRICKS	B.E.	MECHANICAL ENGINEERING	Dr. H.M. KADLIMATTI	Mr. SHRIRAM SINGH A. Mr. KASIMSAB ATTAR Mr. MOHAMMED AHMED MOINUDDIN

187.	47S_BE_5130	DESIGN AND FABRICATION OF 360 DEGREE ROTATING VEHICLE MECHANISM	B.E.	MECHANICAL ENGINEERING	Dr. R. S. NAIK	Mr. YALLALING S. BEDAR Ms. SWATI M. TALAGADE Mr. VISHAL P. BARIKAI Mr. MAHALINGESH H. KORI

26. B.V.V.S BILURUR GURUBASAVA MAHASWAMIJI INSTITUTE OF TECHNOLOGY, MUDHOL

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
188.	47S_BE_0495	EXPERIMENTAL INVESTIGATION ON PAVEMENT QUALITY CONCRETE USING SANDSTONE AS FINE AGGREGATE.	B.E.	CIVIL ENGINEERING	Prof. SHARANBASAVA V. PATIL Mr. SHASIKUMAR AIHOLLI	Mr. PRAJWALGOUDA S. PATIL Mr. PRAVEEN S. KARAJAGI Ms. DIVYA NATIKAR Ms. PRIYANKA HUDED
189.	47S_BE_0497	DEFLUORIDATION OF GROUND WATER BY USING TAMARIND SEED AS LOW-COST ADSORBENTS.	B.E.	CIVIL ENGINEERING	Prof. RUKIYA JAMADAR	Mr. VISHWANATH MALLAPPA TOTAGER Mr. NITISH V. HADIAMNI Ms. GOUTAMI S. KOLIGUDDA Ms. JOSNA S. RATHOD
190.	47S_BE_0343	CROWD PREDICTION FOR BUS LINES USING ARTIFICIAL INTELLIGENCE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VARUN P. SARVADE Prof. VINAYAK A. TELSANG	Mr. GOPAL R. CHENNI Ms. PRADNYA S. BILAGI Mr. DHANUSH J. YADAV Mr. NIRANJAN S. PURAD
191.	47S_BE_0512	AI BASED AGRO SMART RECYCLE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VINAYAK A. TELSANG Prof. VARUN P. SARVADE	Ms. NIKITA B. MANE Ms. AKSHATA K. ANENNAVAR Mr. MOHAMMAD M. TAKKEKAR Ms. MANGAL S. NYAMAGOUD
192.	47S_BE_0323	"RAPID RESPONDER" - AN AUTOMATIC AMBULANCE RESCUE SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SNEHA B. KOTIN Prof. VINAY SHETTAR	Ms. PREETI VENKANAGOUDA PATIL Ms. DEEPA G. BADIGER Ms. SUMITRADEVI CHANNAPPA MANGSULI
193.	47S_BE_0475	INTELLIGENT CRITICAL DATA AGGREGATION SCHEME FOR E-HEALTH MONITORING SYSTEM USING INTERNET OF THINGS (IOT)	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. GURURAJ S. KORI Prof. VINAY S. SHETTAR	Ms. VEENA N. BHAVI Ms. SOUMYA B. GANJIHAL Ms. SUFIYA SHAIKH Ms. SWATI B. UPPAR
194.	47S_MBA_0105	A STUDY ON THE HEALTHCARE SERVICES IN GOVERNMENT HOSPITAL BAGALKOT DISTRICT	MBA	MBA	Mr. ROHIT VAJRAMATTI Mr. MD RAFIQ MALAGHAN	Mr. SHASHANK B. KOPPA Ms. TWINKLE PATEL Mr. GANGALING GHODAKE Mr. VIKAS S. KUMBAR
195.	47S_MBA_0156	AWARENESS AND INTEGRATING INTERNET OF THINGS IN AGRICULTURE	MBA	MBA	Mr. MD RAFIQ MALAGHAN Mr. ROHIT H VAJRAMATTI	Ms. NEHA S. NALAWADE Ms. MUBEENKOUSAR PIRAJADE Ms. SNEHA S. MULIMANI Ms. VAISHNAVI V. GALAGALI
196.	47S_BE_0449	SEEDS CLEANING MACHINE	B.E.	MECHANICAL ENGINEERING	Prof. M. D. KOMAR	Mr. RAZAK DANGI Mr. HARISHKUMAR D. ATAMATTI Mr. VISHWANATH DODAMANI Mr. SAGAR LAMANI

27. BALLARI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BALLARI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
197.	47S_BE_2002	INTELE FRIDGE	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. HEMAVATI	Ms. ARCHANA H. Ms. ANUPAMA J. Ms. K. RAJESHREE Ms. MEGHANA SAKARAY
198.	47S_BE_2496	KAKSHA ANUSHASAN NIGRAANI VYAVASTHA	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. B. M. VIDYAVATHI	Ms. ASHWINI Ms. KRITI SINHA Mr. SAI RAHUL V. Mr. TUKARAM H.
199.	47S_BE_4022	APPLICATION OF ARDUINO SENSORS FOR MOISTURE DETECTION AS AN EARLY WARNING SYSTEM FOR RAINFALL-INDUCED LANDSLIDE	B.E.	CIVIL ENGINEERING	Prof. RAVICHANDRA HONNALLI	Ms. ASMA BANU R. Ms. HEENA PARVEEN Mr. NIHAL RANJAN GOWDA Mr. L. KISHAN KUMAR

200.	47S_BE_4132	STUDY OF GEOTECHNICAL AND AGRICULTURAL PROPERTIES OF SEDIMENT DEPOSITED IN TUNGABHADRA DAM	B.E.	CIVIL ENGINEERING	Prof. VINAYKUMAR HUNAGUND Prof. RAVICHANDRA A. H.	Ms. D. PARVEZ BANU Ms. B. SUHANA Ms. SHILPA G. Ms. T. CHITRA
201.	47S_BE_4330	PREDICTION OF LAND SLIDE POINTS IN CHIKKMAGALURU DISTRICT BY USING GEO-SPATIAL TECHNIQUE	B.E.	CIVIL ENGINEERING	Mr. SYED SADATH ALI	Ms. ANUSHA P. S. Ms. BHOOMIKA VASTRAD Ms. SHIREEN M. Ms. T. SUMANTH
202.	47S_BE_3550	CAR PARKING SYSTEM USING ARDUINO UNO	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. GIRIJA VANI G.	Ms. BHOOMIKA N. M. Ms. A. ANJALI KULKARNI Mr. SHIVA KUMAR U. Mr. U. RAHUL
203.	47S_BE_3552	CROP SUGGESTIVE SYSTEM THROUGH SOIL PROPERTY CHARACTERIZATION USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. MANJUNATH G.	Ms. T. BHAVITHA Ms. VAISHNAVI G. Ms. VINUTHA T. Mr. S. PAVAN KUMAR
204.	47S_BE_3567	SMART INFANT INCUBATOR USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. SHILPA K. R.	Mr. GOUTHAM B. Mr. SAGAR K. Mr. SUDEEP SHURI SHETTRU Mr. GANESH T.
205.	47S_BE_3633	DESIGN AND DEVELOPMENT 0F A SELF -BALANCING TWO-WHEELER ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. UDAY RAJ KUMAR	Mr. K HIMANTH RAJ Mr. KALLAMADI MURALI KRISHNA Mr. MONISH V Mr. VILAS V. KHASNIS

28. BANGALORE INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
206.	47S_BE_0257	BLOCKCHAIN TECHNOLOGY FOR SUPPLY CHAIN MANAGEMENT IN FOOD INDUSTRY	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. JYOTHI D. G. Prof. SHRUTHIBA A.	Mr. JAYANTH HEGDE Mr. THEJAS B. P. Mr. VIKHYATH Mr. TEJAS C.
207.	47S_BE_3141	EFFECT OF STEEL SLAG AND RECLAIMED ASPHALT PAVEMENT (RAP) ON MOISTURE SUSCEPTIBILITY AND FATIGUE CHARACTERISTICS OF STONE MASTIC ASPHALT MIX	B.E.	CIVIL ENGINEERING	Mr. S. POORNACHANDRA THEJASWI	Mr. VIDHATH S. V. Ms. TEJASWINI T. Mr. NITHISH K. M. Ms. YOGESHWARI D. M.
208.	47S_BE_3182	EXPERIMENTAL STUDIES ON JUTE FIBRE AND ARECA FIBRE USED AS FIXED AERATED BEDS FOR DOMESTIC WASTE WATER TREATMENT	B.E.	CIVIL ENGINEERING	Mrs. KAVANA S. Dr. VATHSALA	Mr. RITESH VINAYAK M. Mr. THARUN KUMAR H. Mr. RAHUL RAO A. Mr. ROHITH A.
209.	47S_BE_0651	SOLAR: E-VAULT FOR LEGAL RECORDS USING SOLANA AND ARWEAVE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. HEMAVATHI P. Prof. ASHWINI T. N.	Mr. VAITHEESWARAN J. Mr. ULLAS B. R. Ms. SHIVANI Mr. YATISH S. GOWDA
210.	47S_BE_1259	UNDERSTANDING SOLAR ACTIVITY PATTERNS WITHIN A SOLAR CYCLE USING MACHINE LEARNING TECHNIQUES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. M. S. BHARGAVI	Ms. DISHA K. SANKETH Ms. DEEKSHA DEEPAK Ms. DEVIKA U. H. Ms. GAYATHRI R.
211.	47S_BE_1284	FEDERATED LEARNING APPROACH FOR ORAL CANCER DETECTION USING CNN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SUNANDA H. G.	Mr. CHETHAN R. D. Mr. C. T. ADITYA Mr. DEEKSHITH GOWDA Mr. KIRAN R.
212.	47S_BE_1698	ENHANCING AUTISM DIAGNOSIS THROUGH MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. MAHALAKSHMI C. V.	Ms. SNEHA C. J. Ms. SOWMYA KANCHAN Ms. TEJASHWINI A. M.
213.	47S_BE_0428	SMARTPAVE: IOT BASED SYSTEM FOR REAL TIME POTHOLE DETECTION, TRACKING AND MAINTENANCE.	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. BHAVYA K. B.	Ms. VARSHA V. Ms. SOUJANYA S. Ms. VARSHA B. S. Ms. VYSHNAVI S. C.
214.	47S_BE_3190	DESIGN AND IMPLEMENTATION OF ENERGY HARVESTING AND POLLUTION CONTROL USING NANO TREE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. KALPANA A. B.	Ms. SMRUTHI B. Ms. SPOORTHI M. Ms. SOMISETTI V. TEJASWI
215.	47S_BE_3561	LANDSLIDE DISASTER MANAGEMENT USING IOT AND MACHINE LEARNING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. RADHA B. L. Ms. TEJASWINI B. M.	Mr. PRATHEEK K. P. Mr. MRINAL KAKANUR Ms. PALLAVI G. U. Ms. NIDHI V. J.
216.	47S_BE_4708	DESIGN OF LOW POWER SRAM IN 45NM CMOS TECHNOLOGY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. S. L. MUKTHI	Mr. VIJAYRAJ SADASHIVA MADAGUNDI Mr. VARUN O. Mr. THEJAS K. R.

217.	47S_BE_1963	GESTURE CONTROLLED SMART SHOPPING TROLLEY FOR DISABLED INDIVIDUALS	B.E.	ELECTRONICS AND INSTRUMENTATIO N ENGINEERING	Mrs. VIDYA S. S.	Ms. SHREYA G. BHAT Ms. DEVIKA R. Ms. NIKITHA R. Ms. PREETHI R.
218.	47S_BE_2523	SOLAR POWERED CREDIT BASED CHARGING SYSTEM	B.E.	ELECTRONICS AND INSTRUMENTATIO N ENGINEERING	Dr. ASWATHAPPA P.	Mr. AMITH R. KULKARNI Mr. CHANDAN K. Mr. CHINMAY SUBHASCHANDRA BHAT Ms. SUPRITHA S.
219.	47S_BE_0411	DYNAMIC MOTION CAPTURING	B.E.	ELECTRONICS AND TELECOMMUNICAT ION ENGINEERING	Dr. M. RAJESWARI	Mr. DEV S. SHAH Mr. ANIL KUMAR S. Mr. TARUN PATEL B. R. Mr. VIJAY KUMAR
220.	47S_BE_0390	SOLAR BASED WIRELESS EV CHARGING SYSTEM	B.E.	ELECTRONICS AND TELECOMMUNICAT ION ENGINEERING	Mr. SHRUTHI N. Prof. N. CHETAN ANAND	Mr. SRUJAN S. GOWDA Ms. KRUPA R. Mr. SANJAY M. C. Mr. SRINIDHI G. N.
221.	47S_BE_0410	AUTOMATIC DETECTION OF FOREIGN OBJECTS DEBRIS ON RUNWAYS	B.E.	ELECTRONICS AND TELECOMMUNICAT ION ENGINEERING	Dr. M. RAJESWARI	Ms. PRAKRUTHI D. S. Ms. AKSHAYA B. N. Ms. SHILPASHREE L. R. Ms. VARSHITHA M. P.
222.	47S_BE_0412	IOT BASED PORTABLE VENTILATOR	B.E.	ELECTRONICS AND TELECOMMUNICAT ION ENGINEERING	Prof. MANJULA A. R.	Mr. LAKSHMEESHA M. Mr. MIHIR VENKAT SUDARSHAN Mr. PRANAV A. Ms. SNEHA B. S.
223.	47S_BE_0434	HOLOGRAPHIC VIDEO VISUALIZER WITH GESTURE CONTROLER	B.E.	ELECTRONICS AND TELECOMMUNICAT ION ENGINEERING	Prof. RANJANA K.	Mr. SACHIN SAGAR C. S. Ms. POOJA B. K. Mr. NISHANTH PATEL S. R. Mr. SWASTHIK
224.	47S_BE_0930	MAPPING FLOOD AFFECTED BUILDING AND ASSESSING DEPTH UAING AERIAL IMAGERY	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. M. SHILPA	Mr. DHEERAJ YADAV Mr. DEBAN K. R. SHAHI Mr. MD. NAJISH Ms. SADHANA N. S.
225.	47S_BE_1113	NLP-BASED LEGAL CHATBOT: EMPOWERING USERS WITH DYNAMIC TEXT GENERATION FOR LEGAL ADVICE	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. ASHA T.	Mr. ANISH VENKAPPA VANTAGODI Ms. ISHITA SINGHAL Ms. JANHVI SINGH Ms. POOJA HARIHAR
226.	47S_BE_2380	BLOCKCHAIN-POWERED ESCROW: BUILDING DIGITAL CONFIDENCE (TRADECONNECT)	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. MERCY S.	Mr. RAJ KUMAR Mr. RAJ BAGARIA Ms. SHREYA Ms. SHREYA NARAYAN
227.	47S_BE_2537	DECENTRALISED EXCHANGE PLATFORM ON ETHEREUM BLOCKCHAIN USING CPMM ALGORITHM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. MERCY S.	Mr. SUDHANSHU SHEKHAR Mr. SOURABH KUMAR SINHA Mr. SHIVANSHU DEV Mr. ADITYA ARYAN
228.	47S_BE_3208	VIRTUAL DRESSING ROOM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. PAVITHRA N. Dr. MERCY S.	Mr. ROHAN H. RAJ Ms. ITISHREE BARIK Mr. NITHESH NAG C. Mr. TANISH C. S.
229.	47S_BE_3116	AUTONOMOUS UNMANNED GROUND VEHICLE FOR MILITARY SURVELLIANCE	B.E.	MECHANICAL ENGINEERING	Dr. M.K. PRASANNA KUMAR	Mr. NISHCHAY S. N. Mr. PAVAN D. KAKADE Mr. SOHAM S. Mr. TARUN
230.	47S_MTech_ 0099	PREDICTIVE ANALYSIS OF DUST LEVELS OF ENVIRONMENT USING REGRESSION ALGORITHM IN ARDUINO UNO	M.Tech	VLSI DESIGN AND EMBEDDED SYSTEMS	Prof. THEJASWINI B. M.	Mr. GIREESHA K.
231.	47S_MTech_ 0103	ENHANCEMENT OF IOT BASED EARLY DETECTION AND ALERTING OF FLOOD USING ARDUINO UNO WITH WI-FI MODULE	M.Tech	VLSI DESIGN AND EMBEDDED SYSTEMS	Dr. MUKTHI S. L.	Mr. DHEERAJ K. S.
232.	47S_MTech_ 0105	TRANSFORMING ELDERLY CARE WITH UNIFIED WEARABLE HEALTH MONITORING AND INTELLIGENT MEDICATION MANAGEMENT TO ENHANCE OVERALL WELL-BEING SEAMLESSLY	M.Tech	VLSI DESIGN AND EMBEDDED SYSTEMS	Dr. JALAJA S.	Ms. HARSHITHA B. R.

29. BANGALORE TECHNOLOGICAL INSTITUTE, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
233.	47S_BE_4266	ENHANCE USER EXPERIENCE OF OLDER ADULTS WITH SPEECH BASED INTELLIGENT PERSONAL ASSISTANT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SHRUTHI H. Mrs. SRUJANI J.	Ms. BHAVANA K. Mr. CHANDAN GOWDA N. Mr. VIJAY KUMAR G. S.

234.	47S_BE_5446	THE TIME SERIES PRODUCTION OF AGRICULTURE PRODUCTS PRICE BASED ON TIME ALIGNMENT OF RNN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SRUJANI J. Mrs. SHYLAJA D N	Ms. TANUJA H BANAKAR Ms. AYESHA SIDEEQA Mr. SOURAV ANAND Ms. SOUNDARYA SINNUR

30. BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANAGERE

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
235.	47S_BE_4109	AN EXPERIMENTAL STUDY ON STRENGTH AND DURABILITY CHARACTERISTICS OF ECO-FRIENDLY MYCELIUM BRICKS	B.E.	BIOTECHNOLOGY	Prof. SHRUTHI S. R.	Ms. AMISHA N. SOPPIN Ms. ANUSHA PUJAR Ms. NIDHI S. Ms. SHREELAKSHMI M. B.
236.	47S_BE_4483	OPTIMIZATION OF BACTERIAL SOIL PIGMENTS AS FABRIC BIOSYNTHETIC MATERIAL	B.E.	BIOTECHNOLOGY	Dr. SURESH B.	Ms. BHAVANA V. Ms. ASHWINI V. Ms. DAPHNY VALENCIA N. Ms. DIVYA SHILPA U.
237.	47S_BE_2398	MANUFACTURING OF BIOSORBENT AND COMPARING ADSORBENT FOR EMERGING CONTAMINANT REMOVAL	B.E.	CHEMICAL ENGINEERING	Mr. SRINIDHI R. KULKARNI Mr. AMARNATH P. C.	Mr. K. P. HEMANTH Mr. M. SAISRINIVAS
238.	47S_BE_3347	OPTIMIZATION STUDIES ON ADSORPTION EFFICIENCY OF LOW COST ACTIVATED ORANGE PEELS FOR THE REMOVAL OF METHYLENE BLUE DYE	B.E.	CIVIL ENGINEERING	Mrs. SUMANA Y. B.	Ms. SIRISHA N. V. Ms. NIKSHITHA R. P. Mr. SHAIK ABDUL RAHIM N. Ms. SHREEDEVI
239.	47S_BE_3535	STUDY ON EFFECTS ON AGRICULTURAL FERTILIZERS ON SURFACE AND SUBSURFACE WATER SOURCES	B.E.	CIVIL ENGINEERING	Mrs. PRIYANKA N.	Mr. TARUN K. B. Mr. SUMANTH B. C.
240.	47S_MCA_0052	DEEP LEARNING BASED FACE SKIN CANCER CLASSIFICATION SYSTEM	M.C.A.	COMPUTER APPLICATIONS	Dr. SHANKARAGOWDA B. B.	Ms. BINDHU M. C. Ms. AKSHATHA D. N.
241.	47S_BE_0090	EXPLORATION OF EXPLAINABLE DEEP LEARNING MODEL FOR CLASSIFICATION AND ANALYSIS OF ALZHEIMER'S DISEASE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PRADEEP N. Prof. BHARATH H. C.	Ms. A. LASYA PRIYA Ms. BHOOMI SHREE C. P. Mr. MANOJ BHAVIHAL Mr. SWAROOP ARADHYA N. M.
242.	47S_BE_2678	BLOCK CHAIN BASED CLOUD FILE SHARING SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. CHETANA PRAKASH	Mr. ABHISHEK V. Mr. ANOOP M. Mr. SAGAR K. R. Mr. ADITYA D. BENKIKERE
243.	47S_BE_1435	AGRICULTURAL UTILITY VEHICLE WITH FIELD MONITORING USING IOT	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. SHIVAKUMARASWAMY G. M.	Mr. SURAJ PRAKASH KADUR Ms. PRIYANKA NINGAPPA NAREGAL Ms. SAHANA RAMESH METI Ms. SNEHA RAMESH SORATUR
244.	47S_BE_3676	IOT AND ML BASED CROP RECOMMENDATION SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. RADHIKA PRIYA Y. R.	Ms. JAHNAVI G. S. Ms. LAKSHMI K. M. Ms. PUSHPAVATHI CHIKKOL C. V. Mr. CHANDHU M. P.
245.	47S_BE_1676	LEPROSY IDENTIFICATION WITH AI ANALYSIS BY INTEGRATING SKIN LESION IMAGES AND CLINICAL DATA	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. POORNIMA B.	Ms. NAYANA R. Ms. ASHWINI P. Ms. HARSHITHA G. M. Ms. NIKHITHA G. P.
246.	47S_BE_3677	CHARGING STATION FOR E-VEHICLE USING SOLAR WITH IOT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Ms. MADHURI MARTIS	Mr. LINGARAJU M. Mr. MOHITH H. GIRIYAPUR Mr. NAGABHUSHAN B. V. Mr. NITHIN K. K.
247.	47S_BE_5101	HYBRID SYSTEM FOR DETECTING DISEASES ON BANANA PLANT LEAVES WITH SUITABLE PESTICIDE RECOMMENDATIONS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. PATIL N. S.	Mr. SUDEEP S. HALIGONDRA Mr. CHETHAN V. Mr. ABHISHEK G. M. Mr. ANMOL S. R.
248.	47S_BE_1918	SYNERGY OF SUN AND WIND ENERGY: A HYBRID POWER GENERATION SYSTEM WITH DUAL AXIS SOLAR PANELS AND VAWT	B.E.	MECHANICAL ENGINEERING	Dr. A. B. VINAYAKA PATIL	Mr. S. R. JEEVAN Mr. VYSHAK KUMAR B. S. Ms. SHRUTI KULAGOD Mr. DEEKSHITH YADAV T. S.

31. BASAVAKALYAN ENGINEERING COLLEGE, BASAVAKALYANA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
249.	47S_BE_2871	APPLYING ARTIFICIAL INTELLIGENCE TO WEARABLE SENSOR DATA TO DIAGNOSE & PREDICT CARDIOVASCULAR DISEASE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. VIRESHA SUGOOR	Mr. PAWAN RAJU Ms. NIKITA Ms. KASTURI Mr. ASHISH

250.	47S_BE_5433	IOT BASED ANTI-SMUGGLING SYSTEM FOR TREES IN FOREST USING WSN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. KEERTIRANI	Ms. VAISHNAVI Ms. SANJANA

32. BEARYS INSTITUTE OF TECHNOLOGY, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
251.	47S_BE_3872	FOREST FIRE RISK ZONE MAPPING USING GIS AND AHP METHOD: A STUDY OF BHADRA WILDLIFE SANCTURY, CHIKKAMAGALUR, KARNATAKA	B.E.	CIVIL ENGINEERING	Prof. ALEEMA SAFA	Mr. KALANDAR Mr. MUHAMMAD ALI NAFFAH Mr. YUNUS AUSAF QAMAR
252.	47S_BE_4497	SEISMIC ANALYSIS AND DESIGN OF BEARYS PHARMACY COLLEGE BUILDING FOR ADEQUACY AND RECOMMENDING SUITABLE RETROFITTING	B.E.	CIVIL ENGINEERING	Dr. PURUSHOTHAMA C. T.	Mr. MOHAMMED HASHIM M. Mr. ABDUL MANNAN ZAKEER Mr. MOHAMMED AHAMADUL MAHAMOOD Mr. NOHA SHELDEN DSOUZA
253.	47S_BE_0429	AN INNOVATIVE IT SOLUTION FOR CONVENIENT AND HEALTHY FOOD DELIVERY IN PG'S	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. MOHAMMED SINAN MARIKATTYNAMMA	Mr. ABHISHEK C. A. Mr. MOHAMMED RAAKIN Mr. MOHAMMED NAWAF Mr. MOHAMMED RUFAID AMAAN
254.	47S_BE_0517	WEB PLATFORM FOR HANDYMAN SERVICES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NUSAIBA	Mr. MUHYADDIN MAZIN Mr. ABDUL MAJEED Mr. MAHAMMAD ASIR Mr. MAHAMOOD THASREEF
255.	47S_BE_1544	DESIGN AND FABRICATION OF BEACH CLEANING ROBOT	B.E.	MECHANICAL ENGINEERING	Dr. SANDEEP NAMBIAR S.	Mr. ABDULLA JUNAID CH Mr. MOHAMMED AZZAH K. A. Mr. PAWAN KUMAR
256.	47S_BE_2983	DESIGN AND FABRICATION OF PORTABLE WIND ENERGY CONSERVATION SYSTEM FOR STREET ELECTRICAL LIGHTENING FOR REMOTE AREAS	B.E.	MECHANICAL ENGINEERING	Dr. IMRAN MOKASHI	Mr. MK SYED TANVEER AHMED Mr. MOHAMMED SHAHE JAHAN Mr. MD ZAWED EQUBAL Mr. MAHAMMAD SHAFI
257.	47S_BE_3957	SEA WATER CONVERTED TO DRINKING WATER USING PEDAL POWER WITH SOLAR POWER	B.E.	MECHANICAL ENGINEERING	Dr. MOHAMED KAFEEL DELVI	Mr. MAHAMMAD ASHFAK Mr. AHMED SHAHIN Mr. MAHAMMAD FAZIL Mr. MAHAMMAD ZAMSHID

33. BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
258.	47S_BE_2754	JARVIS THE COMPANION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. MAMATHA M.	Mr. ABU BAKKAR Mr. AKASH HIREMATH Mr. AMRUTHAIAH S. Mr. JAI PRANITH M.
259.	47S_BE_4919	DEONE WITH AUTO CONTROL LAND MEASUREMENT AND SELF-CHARGING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. J. BHARATHI Prof. MAMATHA M.	Mr. P. CHANDRU Ms. BHAVANI M. Ms. HEMAVATHI S. Ms. TRISHA R.
260.	47S_BE_3207	EARLY PREDICTION OF LIFESTYLE DISEASES (CARDIAC ARRYTHMIAS)	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. ARUNKUMAR A. S.	Ms. KUSUMA M. Ms. ANITHA T. M. Ms. M. HARSHITHA REDDY Ms. YASHASWINI R.
261.	47S_BE_5325	USING DEEP LEARNING FOR REAL TIME OBJECT DETECTION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. ROOPA H. L.	Ms. NAYANA C. Ms. BUSHRA KULSUM Ms. MANISHA V. Mr. ASHWANI RAJ

34. C. BYREGOWDA INSTITUTE OF TECHNOLOGY, KOLAR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
262.	47S_BE_4093	STABILIZATION OF LITHOMERGIC SOIL USING CEMENT AND WASTE SHEERED TYRE CHIPS	B.E.	CIVIL ENGINEERING	Prof. VEDAVATHI R. P. Dr. SHIVARAJU R.	Mr. GAJENDRA B. G. Mr. RAHUL REDDY B. Mr. SHIVANANDA N. V. Ms. SHENAPRIYA C. M.

35. C.M.R. INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
263.	47S_MCA_0035	E-VAULT FOR LEGAL RECORD KEEPING SERVICE	M.C.A.	COMPUTER APPLICATIONS	Dr. VAKULA RANI J.	Mr. A. R. SAI TEJAS Mr. MANJUNATHA Mr. ANISHKRISHNA N. Ms. LIKHITHA G.
264.	47S_BE_2641	BIOCHEMICAL INSPIRED REMEDIATION OF EFFLUENT WASTE WATER USING POLY BASED BIO FILTERS FOR CONVENTIONAL FARMING APPLICATIONS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. K. VENKATESWARAN Dr. L. NIRANJAN	Mr. CHARAN K. N. Mr. MANU H. S. Mr. HANUMANTHA M. Mr. NANDAN KUMAR C. L.
265.	47S_BE_2700	DESIGNING AN INNOVATIVE AUTOMATED SEED SPROUTING SYSTEM CATERING TO THE UNIQUE NEEDS OF THE ELDERLY AND ATHLETIC INDIVIDUALS.	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. NIRANJAN L. Dr. VENKATESWARAN K.	Mr. RANJITHKUMAR N. Mr. PUNEET M. Mr. RAJESH T. G. Mr. RATNADEEP
266.	47S_BE_4332	MINDMATE: A PSYCHOLOGY CHATBOT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. SRIVIDYA R	Ms. SANJANA RAJPUT Ms. SAPNA NAIDU
267.	47S_MBA_0047	ASSESSING THE ACCEPTABILITY OF WOMEN HEALTHCARE INTERVENTIONS: AN EXPLORATORY STUDY IN BANGALORE RURAL DISTRICT	MBA	MBA	Dr. UMA LAKSHMI K. Dr. REMA GOPALAN	Mr. CHIRAG G. Ms. TASNEEM KHANUM S.

36. C.M.R. UNIVERSITY, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
268.	47S_BE_4116	DETERMINATION OF MEDICINAL LEAF PROPERTIES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PARAMESWARAN T.	Mr. YERRAGUNTA SRUJAN Mr. IRRI CHAANAKYA NITHIN SAI Mr. K. LALU PRASAD Mr. M. JEEVAN KISHORE REDDY
269.	47S_BE_5379	FACIAL RECOGNITION FOR IOT BASED APPLICATION USING DNN	B.E.	ELECTRONICS AND COMMUNICATIO N ENGINEERING	Dr. ROOPESH R.	Mr. PUNITH KUMAR K. S. Mr. SHARATH REDDY R. Mr. VARUN KUMAR K. R. Mr. SACHIN A. J.

37. C.M.S BUSINESS SCHOOL, JAIN (DEEMED-TO-BE UNIVERSITY), BENGALURU

	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
270.	47S_MBA_0036	CYBERSECURITY POLICY FRAMEWORK FOR SECURING HEALTHCARE DATA	MBA	BUSINESS ANALYTICS	Dr. LUBNA AMBREEN Dr. PRAVEEN GUJJAR	Mr. SAGAR BHANDARI Mr. ASHUTOSH KUMAR

38. CAMBRIDGE INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
271.	47S_BE_4231	GENERATIVE AI (GEN AI) BASED VIDEO GENERATION FOR CLASSICAL DANCE	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. D. ANTONY LOUIS PIRIYAKUMAR Prof. R. GEETHA	Mr. GIRISH CHANDRA SAXENA Mr. MOHAMMED ADNAN Ms. VIDYA BHARTI Mr. ABHISEKH KUMAR
272.	47S_BE_4366	POLYPHONIC MIND: INTELLIGENT MULTIMODAL CONVERSATIONAL AI WITH TEXT, IMAGE AND AUDIO INTEGRATION USING NLP AND DEEP LEARNING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. R. GEETHA Dr. D. ANTONY LOUIS PIRIYAKUMAR	Mr. P. AADITYA Ms. T. SHIVANI Ms. DEEPASHREE L. Ms. LISHA M.
273.	47S_BE_2768	AUTOSUMMARIZE: EMPOWERING DIGITAL LITERACY WITH AI TEXT SUMMARIZATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. JAYANTHI M. G. Dr. SHASHIKUMAR D. R.	Ms. DIVYA KRISHNA POOJARI Ms. M. SRAVANI Ms. LAHARI A.
274.	47S_BE_1968	RISC-V ENABLED AUTOMATED OSCILLOMETRIC PRESSURE MONITORING DEVICE FOR SUPINE PRESSOR TEST	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. G. INDUMATHI Dr. A. CHRISPIN JIJI	Ms. SHIRISHA G. P. Ms. SHARADA P. Ms. SPANDANA K. J. Ms. USHA S. M.
275.	47S_BE_4482	FPGA IMPLEMENTATION OF IMAGING UNIT FOR GROUND PENETRATING RADAR	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. CYRIL PRASANNARAJ P.	Mr. SACHIN C. Mr. RAGHAVENDRA P. Mr. SACHIN P. V. Mr. SAGAR H. P.

276.	47S_BE_4664	CAMOUFLAGE ROBOT FOR ADVANCED MILITARY APPLICATIONS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. GEETANJALI P. Mr. SANDEEP KUMAR	Mr. PRAJWAL C. Mr. SHASHANK M. Mr. HARSHAVARDHAN M. Mr. D. LAVA KUMAR
277.	47S_BE_1614	FIRE FIGHTING ROBOT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. BHARANI	Mr. VINAY N. Mr. VASU M. Mr. YASHAS V.
278.	47S_BE_1884	REAL-TIME MONITORING OF MACHINE HEALTH IN PHARMACEUTICAL MANUFACTURING VIA VIBRATING SENSING - AN INDUSTRIAL IOT APPLICATION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. JAYASHREE N.	Ms. RAKSHITHA A. Ms. MEGHANA D. Ms. ROHITHA K. N. Ms. SHARANYA V.

39. CANARA ENGINEERING COLLEGE, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
279.	47S_BE_0194	CORNCARE: PLANT DISEASE DEFENDER	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SUKSHMA SHETTY	Mr. SHREYAS K. S. Mr. SHASHANK KINI Mr. SRIRAM M. V. Mr. UDAY GANAPATI MARATHI
280.	47S_BE_0197	SMART TOLL COLLECTION SYSTEM USING GPS AND GEOFENCING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. AJAY S. SHET	Mr. K. TEJAS PRABHU Mr. ANIRUDH RAO Mr. DARSHAN N. SHETTY Mr. KARTHIK DEVADIGA
281.	47S_BE_0203	VIRTUDINE: DISCOVER NUTRIENT RICH FLAVORS THROUGH PIXELS USING AUGMENTED REALITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. RAJGOPAL K. T.	Ms. KSHAMA BHAKTHA Mr. ADARSH M. SHENOY Ms. DIVYA D. SHET Mr. NAGARAJA THAMANKAR
282.	47S_BE_0227	LOCATION BASED MOBILE CONFIGURING SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NAMITA A. AMDALLI	Mr. GOUTHAM Ms. NIDHI SHASHI KUMAR Mr. CHETHAN KUMAR K. V. Mr. BHARATH M. G.
283.	47S_BE_0239	A BLOCKCHAIN-BASED COUNTERFEIT PRODUCT IDENTIFICATION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. KISHOR SHIVATHAYA S.	Mr. SATHWIK SADASHAY V. Mr. SHRIVATSA Mr. SHASHANK S. Mr. SHREYAS S.
284.	47S_BE_0242	SMARTCROP- A LOCAL CROP RECOMMENDATION SYSTEM USING MACHINE LEARNING FOR DAKSHINA KANNADA REGION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. JANARDHANA BHAT K.	Ms. PRATHAM BHANDARY Ms. RANJITA MALLYA Ms. SWARNA KAMATH
285.	47S_BE_0810	LOW-COST MYOELECTRIC PROSTHETIC ARM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. DAYANAND G. K.	Mr. ADITYA P. Mr. SAMEER HEGDE Ms. AMEL RAYAZ BAILUR Ms. NISHA SHETTY
286.	47S_BE_1065	NON-INVASIVE TEMPERATURE AND BLOOD GLUCOSE LEVEL DETECTION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. RAJITHA A. A.	Mr. ABHISHEK SHETTY Mr. NAGARAJ NITYANAND SHETTY Mr. SAMARTH SHETTY Mr. YOGISH B. PRABHU
287.	47S_BE_0104	DETECTION OF GASTRIC CANCER THROUGH ADVANCED ENDOSCOPIC IMAGING TECHNOLOGY USING CNN	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SHILPA B.	Ms. ASHWINI K. HEGDE Ms. CHAITHANYA G. PUTHRAN Ms. JAYASWI Ms. RACHANA
288.	47S_BE_0132	INTELLITEXT: DIGITAL RECOGNITION OF HANDWRITTEN TEXT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. VASANTH NAYAK	Mr. SHRAVAN G. AMIN Ms. SHREESHA SHETTY Ms. SHWETHA PRABHU
289.	47S_BE_0135	RAMBUTAN FRUIT SWEETNESS PROFILING: INTEGRATING TECHNOLOGY FOR ENHANCED CLASSIFICATION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. SUSHMA M. D.	Ms. MEGHASHREE KAMATH Ms. ANJANA GANAPATI BHAT Ms. DEEKSHITHA Ms. VARSHINI R. NAYAK
290.	47S_BE_0167	SOLAR SEA WATER DESALINATION MACHINE WITH RO AND UV PURIFIER	B.E.	MECHANICAL ENGINEERING	Mr. GOWRISH NAGVEKAR B.	Mr. NITESH NAGARAJ NAYAK Mr. SUMANTH SHENOY D. S. Mr. AMARANATH Mr. K. ABHAY PRABHU

40. CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, TUMAKURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
291.	47S_BE_1124	IMPACT OF CLIMATE CHANGE ON SURFACE WATER - ANALYSIS USING MACHINE LEARNING	B.E.	CIVIL ENGINEERING	Mrs. RAMYA H. N. Prof. PRATHAP G. P.	Mr. SURAG Mr. G. N. DEEPU PATEL Ms. NIHARIKA ROY H. Mr. VARUN G. S.

292.	47S_BE_1738	STATISTICAL ANALYSIS AND WEATHER PREDICTION USING MACHINE LEARNING MODEL	B.E.	CIVIL ENGINEERING	Mr. MANJUNATHA M. KATTI	Mr. SUDRASHAN K. Mr. CHARAN B. Mr. TONTADHARYA M. G. Ms. VIMALA B.
293.	47S_BE_1931	A CASE STUDY OF AIR POLLUTON AND NOISE POLLUTION OF TUMAKURU CITY	B.E.	CIVIL ENGINEERING	Mr. AJITH KUMAR R.	Mr. CHETHAN PAVAN KUMAR L. Mr. DHANUSH K. L. Mr. HARSHITH N. Mr. AKHILA G. R.
294.	47S_BE_2031	A SUSTAINABLE APPROACH TO HYDROPOWER GENERATION FROM SEWAGE TREATMENT PLANT-WORKING MODEL.	B.E.	CIVIL ENGINEERING	Mr. VINAYAK RAO S. R.	Mr. ANEESH KUMAR R. Ms. HEMAPRIYA D. J. Mr. LEPAKSHA R. G. Mr. RAVIKUMAR V.
295.	47S_BE_2610	THE SUSTAINABLE AND SMART IRRIGATION SYSTEM USING IOT	B.E.	CIVIL ENGINEERING	Mr. SIDDARTHA B. H.	Mr. GANESH G. Ms. ASHA B. K. Mr. MARUTHI T. H. Mr. KUSHAL B. J.
296.	47S_BE_2781	DECENTRALIZED CROWDFUNDING USING BLOCKCHAIN SMART CONTRACT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHANTALA C. P.	Ms. RASHMI M. R. Ms. SHUBHAPRADA K. Mr. MANISHKA C. M. Mr. MOHAN KUMAR M.
297.	47S_BE_2821	CYBER POLL PROTECTION FORTIFYING ELECTIONS AGAINST VIRTUAL TAMPERING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHANTALA C. P.	Ms. PREETHI M. Mr. RAHUL S. Ms. REKHASREE R. K. Mr. MOHAN K. S.
298.	47S_BE_5317	HYBRID IOT BASE NAVIGATED ELECTRIC SHIP	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. MANJUNATHA M. N.	Ms, SOWMYA H. O. Ms. ANUSHA R. P. Ms. PALLAVI C. Ms. RAMYA S.
299.	47S_BE_4439	SMOG BOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SURESH D. S.	Ms. NAMRATHA M. Ms. POOJA SHREE V. S. Ms. MONISHA D. G. Ms. LOKANA N.
300.	47S_MBA_0104	PERPETUAL ELECTRICITY GENERATION THROUGH MAGNETISM	MBA	FINANCE AND HUMAN RESOURCE	Dr. RAJENDRA KUMAR M. S.	Mr. GIRISH T. M. Ms. DEEKSHA R.
301.	47S_BE_3592	MULTIMAKER FOLDABLE MODUMACH	B.E.	MECHANICAL ENGINEERING	Prof. NATESH C. P.	Mr. NAGENDRA PRASAD G. Mr. HARISH GOWDA H. Mr. DARSHAN G. V. Mr. SANTHOSH KUMAR C. M.

41. CHRIST DEEMED TO BE UNIVERSITY, KENGERI CAMPUS, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
302.	47S_BE_0397	INTEGRATING SCR TECHNOLOGY WITH CCS FOR SUBSTANTIAL EXHAUST EMISSION REDUCTION	B.E.	AUTOMOBILE ENGINEERING	Dr. RAVIKUMAR R. Prof. KIRAN K.	Mr. ROYCE MATHEW JOSEPH Mr. ABHISHEK TRIPATHI Mr. ATIF RAZA
303.	47S_MTech_0095	REAL-TIME MONITORING AND CONSERVATION FOR GROUNDWATER DEPLETION WITH THE HELP OF CENTRALIZED BOREWELL	M.Tech	COMPUTER SCIENCE AND ENGINEERING	Dr. MANOHAR M.	Mr. AJAYRAJ C.
304.	47S_BE_0373	ECOFLOW AQUBBOT - UNMANNED ALLY FOR PRISTINE PONDS AND EFFORTLESS WATER CLEANING	B.E.	MECHANICAL ENGINEERING	Prof. KIRAN K. Dr. RAVIKUMAR R.	Mr. NILESH KUMAR SINGH Mr. METHALEPURAYIL JAYAKRISHNAN
305.	47S_BE_4528	DESIGN AND DEVELOPMENT OF LOW-COST HEALTH CARE MONITORING ROBOT FOR HEALTH CENTERS IN RURAL AREAS	B.E.	ROBOTICS AND AUTOMATION	Dr. AMRUTA ROUT	Mr. SRI VARDHAN RAJ Mr. ATHULURI LOHITH NAIDU Mr. DUGGIMPUDI HEMANTH REDDY Mr. BHAVESH REDDY PAGIREDDY
306.	47S_BE_4587	DISASTER BOT: INTEGRATING ROBOTICS FOR EFFICIENT DISASTER RESPONSE AND MANAGEMENT	B.E.	ROBOTICS AND AUTOMATION	Prof. AMRUTA ROUT	Mr. RAJVEER SINGH SAHNI Dr. TANISHKA AGGARWAL Mr. KINGSHUK MAJI

42. CITY ENGINEERING COLLEGE, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
307.	47S_BE_5398	VECTOR 1 F1 DECISION SUPPORT SYSTEM	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. VAGDEVI S.	Mr. KEDAR JOSHI Ms. KOKILA K. R. Mr. SUHAS GAJANANA

308.	47S_BE_0903	HARVESTING TOMORROW'S POWER - IOT DRIVEN SMART AUTOMATION USING RENEWABLE ENERGY RESOURCES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHRUTHI VIJAY Prof. HARSHA VARDHAN U.	Ms. BHARGAVI N. PRAKASH Ms. ANANYA B. C. Ms. DEEPASHREE N. Ms. B. DHANALAKSHMI BAI
309.	47S_BE_2592	DIGITAL ASSISTANT FOR LEGAL AWARENESS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. AMBIKA P. R. Mrs. ARCHANA BHAT	Mr. ABHINAV KUMAR SINGH Mr. ADARSH MISHRA Mr. AJAY ANUPAM Mr. RAVI KUMAR
310.	47S_BE_2875	WASTE DETECTION USING COMPUTER VISION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VARALAKSHMI P. Prof. SWETHA A.	Ms. LIKITHA R. Mr. SUJAY V. Mr. IMRAN KHAN N. Mr. R. A. RAAJESH

43. COLLEGE OF HORTICULTURE BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
311.	47S_MTechAg_0006	VIROME PROFILING OF RIDGE GOURD AND DEVELOPMENT OF DIAGNOSTIC TOOLS	M.Tech/M. Sc (Agri)	PLANT PATHOLOGY	Dr. K. S. SHANKARAPPA	Ms. POOJA M.

44. COORG INSTITUTE OF TECHNOLOGY, KODAGU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
312.	47S_BE_1132	FEASIBILITY STUDY ON APPLICATION OF PHOTOCATALYTIC PROCESS IN REMOVAL OF SYNTHETIC DYE FROM WASTEWATER	B.E.	CIVIL ENGINEERING	Prof. RAMYA H. N. Dr. PRAMUKH GANAPATHY C.	Mr. DHANUSH KUMAR M. D. Ms. SONIKA M. Ms. SPOORTHI D.
313.	47S_BE_2925	IOT BASED AUTOMATIC INTRAVENOUS BAG MONITORING AND ALERT SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SANGANA KOTIREDDY	Ms. CHAITHANYA V. G. Ms. DRUSHYA DECHACCA A. M. Ms. MOKSHITHA B. S. Ms. SUSHMITHA T. K.
314.	47S_BE_3248	WIRELESS STAGNANT WATER CLEANING SYSTEM USING ARDUINO	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SOUMYA C. T. Prof. DAINA K. K.	Ms. PRARTHANA M. R. Ms. KEERTHANA D. Mr. CHANDAN B. L. Mr. SAIF KHAN
315.	47S_BE_1030	BIOINSPIRED SERPENTBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. RAMYA C.	Ms. POOJA M. U. Mr. SADASHIVA D. M. Ms. VIDYASHREE P.
316.	47S_BE_1037	NANO BODY HEALTH DEVICE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SUMAN H. M.	Ms. SHARISHA POOVAIAH Ms. MEGHANA H. R. Ms. AMULYA K. R. Mr. PUTTIN AIYAPPA P. C.

45. DAVANGERE UNIVERSITY, DAVANGERE

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
317.	47S_MSC_0200	FABRICATION OF CORN BASED NATURAL POLYMER FOR INDUSTRIAL (WASTE WATER TREATMENT AND DYE DEGRADATION) AND FOOD PACKAGING APPLICATION	M.Sc	BIO TECHNOLOGY	Dr. PRABHURAJESHWAR Dr. NAVYA H. M.	Mr. ABHISHEK J. Mr. CHANDRA NAIK D. Ms. POOJA K. M.
318.	47S_MSC_0029	IDENTIFICATION OF STRESS RESPONSIVE PROTEINS IN SAFFLOWER UNDER ABIOTIC STRESS	M.Sc	BOTANY	Dr. M. THIPPESWAMY Dr. MANASA D. J.	Ms. RAKSHA G. K . Ms. KEERTHANA N. Ms. KAVYASHREE H. A.
319.	47S_MSC_0041	DESIGN AND DEVELOPMENT OF HIGH-PERFORMANCE SUPERCAPACITOR USING NOVEL HYBRID NANOMATERIALS	M.Sc	CHEMISTRY	Prof. NAGASWARUPA H. P.	Ms. VYSHNAVI S. Ms. POORNIMA A. L.
320.	47S_MSC_0051	GREEN ENGINEERED NANOPHOSPHATE MATERIALS FOR WATER TREATMENT	M.Sc	CHEMISTRY	Prof. NAGASWARUPA H. P.	Ms. VAISHNAVI S. N. Ms. SINDHU G. M. Ms. VEERESH B. G.
321.	47S_MSC_0058	NOVEL BCF'S FOR ECOLOGICAL IMPACT ASSESSMENT	M.Sc	CHEMISTRY	Prof. NAGASWARUPA H. P.	Ms. SHAMBHAVI S. S. Ms. KAVITHA S. R. Mr. SHIVAKUMAR JAGADEESH SHIVAJJAR
322.	47S_MSC_0178	THIAZOLE INCORPTED AZO DYES: SYNTHESIS, CHARACTERIZATION, ELECTROCHEMICAL, MOLECULAR DOCKING AND DFT STUDIES	M.Sc	CHEMISTRY	Dr. KEERTHI KUMAR C. T. Mr. MAHANTHESH K. R.	Ms. CHAITRA K. R. Ms. CHAITRA G. Mr. ADARSH D. S.
323.	47S_MSC_0003	DETECTION AND SCARING OF SELECTIVE BIRDS IN AGRICULTURE FIELD USING IOT DEVICES TO PROTECT YIELD	M.Sc	COMPUTER SCIENCE	Mr. ANUP RITTI	Ms. KRUTHIKA K. Ms. KAVYA R. Mr. MANOJ M. Ms. MUSKAN

46. DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
324.	47S_BE_4593	AUDIO-BASED ONLINE EXAMINATION AND PROCTORING SYSTEM USING AI	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. SHIVAPRASAD ASHOK CHIKOP Dr. SANDHYA N.	Mr. SEETHARAMARAJU S. V. Ms. SNEHA A Mr. ADAVENI NITHIN
325.	47S_BE_0314	ADVANCED TREATMENT METHOD OF SALINE WATER USING THERMAL DESALINATION, OSMATIC MEMBRANE AND GEO-TEXTILE FILTER MEDIA	B.E.	CIVIL ENGINEERING	Prof. SHREYAS B. V. Dr. K. N. VISHWANATH	Mr. YASHAS R. Ms. YASHASWINI M. Mr. PRAJWAL S. Mr. N. B. VISHWANATH
326.	47S_BE_0088	CARING COMPANION: EMPOWERING ALZHEIMER PATIENT'S ASSISTANCE USING IOT AND AI	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHALINI S.	Ms. MANSI ANANDRAJ DESHMUKH Ms. PRERANA Ms. RAKSITA C. E. Ms. ANUSHA
327.	47S_BE_0095	INTERACTIVE SCREENS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. KAVITHA C. Dr. SHALINI S.	Mr. MANSOOR AHMED Ms. MANISHA POONIA Ms. MEGHANA M. Mr. NAVEED N.
328.	47S_BE_0097	SIGN LANGUAGE RECOGNITION TOOL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. KRISHNA PRASAD R.	Mr. K. ANISH SHETTY Ms. TAANYA MANJUNATH Mr. NAVEEN P. Ms. SWATHI H. S .
329.	47S_BE_0107	PARKINSON'S DISEASE DETECTION USING MULTI - MODAL APPROACH	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. LAKSHMI M. R.	Ms. B. NITHYA SREE Ms. B. SWETHA SREE Ms. BATHALA NANDINI Ms. H. SHRAVANI
330.	47S_BE_0165	NETWORK INTRUSION DETECTION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHILPA M.	Mr. PRAJVAL SORAPUR Mr. ANAND MUDHOL Mr. RAHUL S. Mr. SACHIN B. M.
331.	47S_BE_1539	SENTIMENT ANALYSIS FOR SOCIAL MEDIA PRESENCE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHYLAJA B.	Ms. SMARANYA VIJAYA KRISHNA Ms. VAISHNAVI K. S. Ms. SHREELAXMI KARABASAPPA MALAWADE Mr. SASHANK SAYA
332.	47S_BE_4271	SOLAR POWERED INVERTER FOR SUSTAINABLE FARMING	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. KIRAN R.	Mr. KUSHAL BHARADWAJ T. P. Mr. HARISH B. C. Mr. MOHAMMED IMRAN PARRAY Mr. VENKATA RAVAN KUMAR N. R.
333.	47S_BE_3064	UNDERWATER AUDIO AND DATA TRANSMISSION USING LI-FI TECHNOLOGY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SIDDALINGAPPA GOUDA BIRADAR	Ms. PRAGATI R. MUSALE Ms. ANUSHA KUMARI Ms. APOORVA N. Ms. IMPANA B.
334.	47S_BE_3136	CODEAF- EYE GLASSES THAT HEAR	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. ROOPA R. KULKARNI	Mr. TEJAS M. P. Ms. SHRAVYA R. Ms. TANIYA FATIMA Mr. VISHAL SREENIVAS
335.	47S_BE_3501	BRAIN TUMOUR DETECTION USING MRI IMAGES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. MANU H. M.	Mr. YELLA AJAY KUMAR REDDY Mr. ROHITH Y. Mr. SHREYAS B. M. Mr. YASHWITH K. V.
336.	47S_BE_3509	OPTIMIZATION OF 2-D NANORIBBON INTERCONNECTS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. MALLIKARJUN P. Y.	Mr. VIVEKA KRISHNA GOND Mr. SURAJ K. R. Mr. PRAJITH S. A. Mr. PRAVEEN B.
337.	47S_BE_3686	DESIGN AND IMPLICATIONS OG RADIX 4-8 MODIFIED BOOTH'S ENCODER USING FPGA	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Ms. SINDHU K.	Ms. SOUNDARYA K. Ms. SOUNDARYA A. Ms. KALAVATHI K. P.
338.	47S_BE_5021	HYBRID - GWO ALGORITHM BASED PID CONTROLLER FOR QUADCOPTERS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SUMAIYA M. N.	Mr. AKSHAY KALASH Ms. KAVYA N. PUJARI Mr. K. GOPI CHOWDARY Mr. LAKSHMISH T. G.
339.	47S_BE_5391	GESTURE CRAFT: A HANDS-FREE GAMING EXPERIENCE THROUGH HAND GESTURE RECOGNITION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. LOKABHIRAM DWARAKANATH	Mr. T. P. KIRAN KUMAR Ms. SAHANA C. REDDY Ms. RAKSHITHA KASHYAP R. Mr. SANKETH R. GOWDA
340.	47S_BE_5430	WEARABLE HEALTH CARE IOT PLATFORM: SIMULATOR ENGINE	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. VEENA R. S.	Mr. AMOGHA HARSHA Ms. CHARVI SINGH Ms. GAURI C. MATHAD Ms. M DISHA SHETTY

341.	47S_BE_5451	DISASTER DEFECT MANAGEMENT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. J. T. THIRUKRISHNA	Ms. MAYAKUNTLA ROHINI Ms. SUPRIYA M. R. Ms. NISHMITHA Ms. NITHYA SHREE M.

47. DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
342.	47S_BE_3833	PERFORMANCE ANALYSIS OF DIMPLED WING OF AN AIRCRAFT	B.E.	AERONAUTICAL ENGINEERING	Ms. AFREEN NIZAMI Dr. SRIKANTH SALYAN	Mr. ADITHYA T. S. Mr. LAKSHAY KAUSHIK Mr. PRUTHVI G. Mr. VIKAS R.
343.	47S_BE_3850	INVERSE DESIGN OF AIRFOIL USING CONVOLUTIONAL NEURAL NETWORK	B.E.	AERONAUTICAL ENGINEERING	Dr. SUNDARAMAHALINGAM A.	Mr. ADITHYA KURDEKAR Mr. HEMANTH B. L. Mr. LOHITH GOWDA B. K. Mr. SAINATH
344.	47S_BE_3874	AIRCRAFT WING MORPHING USING AUXETIC STRUCTURES	B.E.	AERONAUTICAL ENGINEERING	Dr. HAREESHA N. G.	Mr. SAGAR V. NAVALGUND Mr. B. SHATINDRA Mr. ROHITH V. CHINDI Mr. TEJAS C. C.
345.	47S_BE_3969	MODELLING AND FABRICATION OF A PULSE JET ENGINE	B.E.	AERONAUTICAL ENGINEERING	Dr. PRATHIK S. JAIN	Mr. NIRANJAN K. S. Mr. DARSHAN G. Mr. GAURAV MAKAM Mr. KARTHIK SHAGOTI V.
346.	47S_BE_4056	INVESTIGATION ON EFFECT OF AIRFOIL SHAPE AND SIZE ON AERODYNAMIC EFFICIENCY OF SPIROID WINGLET	B.E.	AERONAUTICAL ENGINEERING	Dr. SUNDARAMAHALINGAM A.	Mr. DHEERAJ V. S. Mr. KRUTHIK C. Mr. VISHALDEEP K. S. Mr. YUVARAJ L.
347.	47S_BE_4090	SOLAR ENDURANCE FLIGHT	B.E.	AERONAUTICAL ENGINEERING	Dr. SRIKANTH SALYAN Dr. RAMASESHAN SATAGOPAN	Ms. SAYEEDA TAYIBA FATHIMA Ms. KHUTEJATUL KUBRA Mr. ABDUL SAMAD USTAD Mr. SHAH DILAWAR HUSSAIN
348.	47S_BE_0334	REAL TIME RECOGNITION OF UNDERWATER IMAGES USING DEEP LEARNING TECHNIQUES	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. RAMYA K.	Mr. AYUSH ADITYA Mr. PRAVEEN YADAV Mr. YASH RATHI Mr. OM PRAKASH ROY
349.	47S_BE_0701	AUTOMATIC VIDEO COLORISATION AND TRANSLATOR	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. KAVYA D. N.	Mr. MAAZ KARIM Mr. ABHIJIT PATTANAIK Mr. ANKUR SINGH Mr. KSHITIJ VERMA
350.	47S_BE_0705	SKETCH TO FACE SYNTHESIZER	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. ARCHUDHA A. Dr. VINDHYA MALAGI	Mr. ANUKALP JAIN Mr. AVIRUP RAKSHIT Mr. ADITYA YADAV Ms. RIVANA SRIDARAN
351.	47S_BE_0231	ELECTRIC PROPULSION FOR VENDOR CART	B.E.	AUTOMOBILE ENGINEERING	Dr. NANDAKUMAR M. B.	Mr. KEERTHAN K. NAYAK Mr. SHREYAS RAO D. Mr. RAGHAVENDRA G. P. Mr. CHANDAN A.
352.	47S_BE_1506	COMPARATIVE STUDY OF WEAR BEHAVIOR OF DIFFERENT MATERIAL USING TIMKEN TESTER	B.E.	AUTOMOBILE ENGINEERING	Dr. MAHESH B R Dr. NANDAKUMAR M. B.	Mr. NARENDRA A. Mr. CHANDAN G. S. Mr. NIRANJAN H. N. Mr. SHAIBAZ KAZMI
353.	47S_BE_1899	FAULT DIAGNOSIS IN ELECTRIC MOTOR USING VIBRATION ANALYSIS THROUGH MACHINE LEARNING	B.E.	AUTOMOBILE ENGINEERING	Dr. PUNEET N. P.	Mr. HARSH KOTHARI Mr. MOHAMMED FARHAANULLA PASHA Mr. MUHAMMAD FADIL Mr. VARSH KANCHARLA
354.	47S_BE_1977	APPLICATION OF THERMAL SPRAY COATING IN ELECTROLYSIS FOR HYDROGEN PRODUCTION	B.E.	AUTOMOBILE ENGINEERING	Dr. NAVEENA B. E.	Mr. S. N. VIPUL REDDY Mr. K. CHAKRADHAR REDDY Mr. ANISH AKKI Mr. ABHISHEK H. D.
355.	47S_BE_2450	DESIGN AND DEVELOPMENT OF IMMMERSION COOLED BATTERY PACK FOR ELECTRIC VEHICLES	B.E.	AUTOMOBILE ENGINEERING	Dr. S. JENORIS MUTHIYA	Mr. VAROON MARIAN A. S. Mr. GANESHA T. Mr. MOHAMMED HAYATH SHARIFF Mr. SUJITH M. C.
356.	47S_BE_1589	TO STUDY THE THERAPEUTIC EFFICACY OF ANNONA MURICATA (LAKSHMANAPHALA) FRUIT EXTRACT FOR ORAL CANCER AND IDENTIFY MOLECULAR TARGETS	B.E.	BIOTECHNOLOGY	Dr. N. RAJESWARI Dr. SHASHANK TIDKE	Ms. SAMANVITHA SURESH Ms. SOUJANYA SUDHARSHANA Ms. VIDYA M. C. Ms. POOJITHA M.
357.	47S_BE_3007	AMELIORATION OF CADMIUM TOXICITY IN ZEBRAFISH BY SELAGINELLA BRYOPTERIS	B.E.	BIOTECHNOLOGY	Dr. N. RAJESWARI Prof. BHANU REVATHI	Ms. KRITIKA KISHORE RAO Ms. VEDA A. Ms. CHATURYA R.

358.	47S_BE_4080	SYNTHESIS OF ELLAGIC ACID LOADED ANTIBACTERIAL PATCHES TO TREAT ENTEROCOCCUS FAECALIS WOUND INFECTIONS.	B.E.	BIOTECHNOLOGY	Dr. AKSHATHA PRASANNA Dr. PRASHANTHA KARUNAKAR	Ms. SAHANA M. Ms. BHAVYASHREE V. Ms. HAMSAVENI S. M. Ms. INDUPRIYA M.
359.	47S_BE_3856	REMOVAL OF CHROMIUM FROM WASTE WATER USING IMMOBILIZED BIOPOLYMER	B.E.	CHEMICAL ENGINEERING	Prof. MAHESH KUMAR SHETTY	Mr. PRASHANT GANAPATI BHAT Mr. NARSING Mr. SARVESH
360.	47S_BE_4409	REMOVAL OF FLUORIDE FROM WASTE WATER USING Al-CaO-Mn MODIFIED ADSORBENT	B.E.	CHEMICAL ENGINEERING	Dr. R. RAVISHANKAR	Mr. SHAIK ADNAN ASAD Ms. ZAHRA BATOOL Mr. MOHAMMED AFAAQ AHMED
361.	47S_BE_0631	ECOTECHNOLOGICAL AND SUSTAINABLE APPROACH TO MITIGATE EROSION-INDUCED SHALLOW LANDSLIDE	B.E.	CIVIL ENGINEERING	Mr. RAGHAVENDRA H. N.	Mr. BYRAREDDY H. V. Mr. ABHISHEK R. B. Ms. CHANDANA H. P. Ms. INCHARA L.
362.	47S_BE_0713	ENHANCING THE RESILIENCE OF BUILDING USING DAMPERS TO MITIGATE THE EFFECTS OF WIND LOAD	B.E.	CIVIL ENGINEERING	Dr. GEETHA L.	Mr. SUMAN T. S. Mr. SAGAR SHETTY Mr. SOMASHANKAR Mr. VIJAYAKUMAR
363.	47S_BE_1123	ASSESSMENT OF SURFACE AND GROUND WATER QUALITY IN THE DOWNSTREAM AREA OF BELLANDUR LAKE	B.E.	CIVIL ENGINEERING	Mrs. SPOORTHY SADASHIV SHANUBHOG.	Mr. PRASHANTH M. G. Mr. KARTHIK P. G. Mr. NELSON MIDWIN Mr. PAVANKUMAR Y. P.
364.	47S_BE_1747	DEVELOPING A ROADMAP AND POLICY FOR ARTIFICAL INTELLIGENCE INTEGRATED SUSTAINABLE CITIES	B.E.	CIVIL ENGINEERING	Dr. SATHVIK S. Dr. SHIVAKUMAR G.	Mr. GAGANITH C. R. Mr. GIRISH K. N. Mr. GIRISH KUMAR B. L. Mr. HARISH BABU S.
365.	47S_BE_2133	DESIGN AND DEVELOPMENT OF SMART SIGNALIZATION FOR EMERGENCY VEHICLE	B.E.	CIVIL ENGINEERING	Prof. RAGHAVENDRA PRAJWAL H. S. Dr. TRUPTI SHRIPAD TAGARE	Ms. JAYASHREE P. Mr. HEMANTH GOWDA G. Ms. BHOOMIKA G. P. Mr. DHANUSH N. B.
366.	47S_BE_0833	IDENTIFICATION OF URINARY TRACT INFECTION CAUSING BACTERIA FROM MICROBIAL COLONY IMAGES USING DEEP LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. RAMESH BABU D. R. Mrs. SUNANDA	Mr. TEJAS R. Mr. AYUSH KUMAR MANAS Mr. DHRUV RATHI Mr. TUSHAR PATHAK
367.	47S_BE_1563	SCHIZOPHRENIA DETECTIOM WITH WAVELET TRANSFORM AND GRAND CAM EXPLAINABILITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. KRISHNAN R.	Mr. RISHAB RAJESH SHARMA Mr. JOSEPH RAJ VISHAL Mr. DHEERAJ GAJULA Ms. JANVI KUMARI
368.	47S_BE_1855	ADVANCING PRECISION IN CARDIAC TISSUE FIBROSIS EVALUATION VIA MACHINE LEARNING GUIDED QUANTIFICATION OF MYOCARDIAL FIBROSIS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. KAVITHA K. S.	Mr. ARJUN T. D. Mr. ADITYA B. N. Ms. AISHWARYA JAGADISH Mr. ABHAY S. NAIK
369.	47S_BE_1906	INTELLIGENT TRAFFIC VIOLATION DETECTION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. ANNAPOORNA B. R.	Mr. YATHISH S. M. Ms. SHRADDHA G. BADAMI Mr. VARUN KUMAR V. VINAY KUMAR T M
370.	47S_BE_4364	SMART FARMING USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. APARNA M. Mr. VISHWAJIT	Mr. AKSHAT SINGH Ms. AKSHATA G. KULKARNI Ms. ANUSHA PANIRAJ SHANBHOG Ms. ANUSHREE L. D.
371.	47S_BE_0814	INTELLIGENT CLEANING ROBOT FOR BELLANDUR LAKE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. PREMKUMAR M.	Mr. BASAVARAJA DESAI Ms. BHOOMIKA MYLAR Ms. CHAITHANYA B. K. Mr. MONISH G.
372.	47S_BE_1299	ONLINE MONITORING SYSTEM FOR POSITION DETECTION IN WIRELESS ELECTRIC VEHICLE CHARGING	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. SUJIT KUMAR Dr. G. MANIKANTA	Mr. CHANCHAL KUMAR Mr. AMMAR HASAN Mr. ANURAG KUMAR Ms. ANSHUL MORE
373.	47S_BE_2562	FABRICATION AND IMPLEMENTATION OF THE SOLAR E-BIKE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. SONI M.	Mr. TANVEER MANSUR AHMAD Mr. MYAGALAMANI SAGARA Mr. VIDYDHAR M PATGAR Mr. VISHWAS D. S.

374.	47S_BE_2986	MEDICINE AND FEMMECARE SANITARY NAPKINS VENDING MACHINE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mrs. SHRUTI R R. GUNAGA	Mr. MANJUNATH M. CHINDI Ms. GAYITHRI G. R. Mr. HARSHA VARDHAN S. Ms. J. SHARON CHRISTINA
375.	47S_BE_0607	CONNECTING SAFETY ON RAILWAY TRACKS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. T. C. MANJUNATH Prof. PAVITHRA G.	Ms. SAHANA GURURAJ MALAGALI Mr. SAGARAGOUDA Ms. SRUJANA C. H.
376.	47S_BE_0618	IOT BASED SOLAR POWERED COLD STORAGE FOR STREET VENDORS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. T. C. MANJUNATH Prof. PAVITHRA G.	Ms. ANUPRIYA D. Ms. AFIRA ANSARI Mr. AKSHAT KUMAR Mr. ANANTH AGRAWAL
377.	47S_BE_0691	DESIGN AND DEVELOPMENT OF AI BASED ROBOT TO SOCIALLY INTERACT WITH AUTISTIC CHILDREN	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. MANASA R.	Ms. RAMYA SHREE S. Ms. POOJA B. G. Ms. POOJA S. KUNDARGI Mr. SAIF HUSSAIN
378.	47S_BE_3540	AUTONOMOUS ROVER FOR MAPPING AND OBJECT DETECTION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. DINESHA P.	Mr. SHAMAS ARMAR Mr. SHREEJITH KINNAL Mr. SHREYAS N. SASTRY Mr. SHIVA CHAUBEY
379.	47S_BE_2425	IOT DRIVEN AQUAPONICS FOR SUSTAINABLE AGRICULTURE	B.E.	ELECTRONICS AND INSTRUMENTATION ENGINEERING	Prof. AMBIKA NAIK Y.	Mr. SANKET VENKATESH SHENVI Mr. SAMMED B. KOLHAPURI Ms. SHEETAL R. KULKARNI
380.	47S_BE_2489	SMART FRUIT WAREHOUSING: ML BASED SORTING, IOT MONITORING & CLOUD INTEGRATION FOR EFFICIENCY	B.E.	ELECTRONICS AND INSTRUMENTATION ENGINEERING	Dr. T. SUSHMA	Ms. J. SUSHMITHA Ms. DISHA J. Mr. VINAMRA SONI Mr. YEJUR DUBE
381.	47S_BE_4847	IOT TECHNOLOGY FOR MONITORING AND CONTROL OF SMART GREEN HOUSES	B.E.	ELECTRONICS AND INSTRUMENTATION ENGINEERING	Dr. RAJASHEKAR J. S. Dr. SUSHMA T.	Ms. ARCHANA PRASHANTH Ms. CHAITHANYA N. Ms. PAVITRA VISWANATHAN Ms. SHALIN M. S.
382.	47S_BE_0131	SMART PLASTIC DISPOSAL SYSTEM WITH SECURED MOBILE CHARGING	B.E.	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	Dr. ANJU V. KULKARNI Dr. SMITHA SASI	Ms. UMM EA ASFIYA Ms. B NETRAVATI Ms. DEEKSHA M. Ms. YASHASWINI H.
383.	47S_BE_0139	SKYGUARD: DRONE-BASED TRACKING SYSTEM	B.E.	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	Mr. JAYANTH C.	Ms. ANKITA PATRA Ms. DHANVI VIJAYKUMAR Mr. MISHUL RAJPUT Mr. RAKESH
384.	47S_BE_0711	AI-DRIVEN DETECTION OF PCOS FOR PERSONALIZED HEALTH IMPROVEMENT	B.E.	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	Dr. PREETI KHANWALKAR Dr. SWETHA RAVIKANTI	Ms. PREETHI M. Ms. DIVYA K. Ms. KEERTHANA K. R.
385.	47S_BE_0935	EEG-BASED BRAIN-COMPUTER INTERFACE FOR DIGITAL ACCESSIBILITY	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SANTOSH ANAND	Mr. AKASH SIL Mr. AHMED FADIL Mr. JANESH WALIA Ms. ANUJNA G. K.
386.	47S_BE_1054	KARNA- A CROWDFUNDING PLATFORM WITH DAO (DECENTRALIZED AUTONOMOUS ORGANIZATION) BASED APPROVAL FOR ENHANCED SECURITY USING BLOCKCHAIN	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. BINDU BHARGAVI S. M. Dr. ANNAPURNA P. PATIL	Mr. ADITHYA N. G. Mr. ANISH JAIN Mr. AKASH SINGH Mr. MANISH SARAN
387.	47S_BE_1546	TOMATO DISEASE DETECTION AND SEVERITY ASSESSMENT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SHALINI K. B. Dr. VARAPRASAD B. K. S. V. L.	Mr. SUDEEP R. SHETTY Mr. SHIVARAJ D. Mr. SRAJAN Mr. SREEKAR PANCHANGAM
388.	47S_BE_3511	PATHOLOGY DETECTION AND LOCALIZATION IN CHEST X-RAY USING PARALLELIZE MULTIPLE DCNN	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. CHANDRAKALA B. M. Dr. ANNAPURNA P. PATIL	Ms. ADITYA RAJ PATERIYA Mr. SHIVESH SINGH RAO Mr. SARTHAK SABHARWAL Mr. ARYAN MISRA
389.	47S_BE_0945	DESIGN, ANALYSIS AND FABRICATION OF ROTARY ASCENDING LIFT SYSTEM	B.E.	MECHANICAL ENGINEERING	Dr. B. T. MANJUNATH	Mr. BHARATH N. VISHWAMITRA Mr. SUMUKHA S. HEGDE Mr. SANKETH GOMBI Mr. SHREYAS G.
390.	47S_BE_1015	DESIGN, MODELLING AND FABRICATION OF CONTROL SYSTEM FOR RAM AIR PARACHUTE	B.E.	MECHANICAL ENGINEERING	Dr. B. T. MANJUNATH	Mr. UMASHANKAR A. N. REDDY Mr. CHANDRASHEKAR R. Mr. ROHITH S. Mr. CHINMAY T.
391.	47S_BE_2501	MODELLING AND ANALYSIS OF RESONANT METAMATERIAL FOR PIPE VIBRATION ATTENUATION	B.E.	MECHANICAL ENGINEERING	Dr. NINGE GOWDA B. M. Dr. NITISH KUMAR	Mr. RAVI S. Mr. RAKESH R. Mr. SHIVPRAKASH GOUDA Mr. SUDEEP C.

392.	47S_BE_2527	DEVELOPMENT OF SOLAR POWERED AIR-COOLING SYSTEM FOR CAR INTERIOR COOLING UNDER PARKED CONDITION	B.E.	MECHANICAL ENGINEERING	DAYANANDA SAGAR COLLEGE OF ENGINEERING Dr. NINGEGOWDA B. M.	Mr. VINAYAK RAMCHANDRA CHAVAN Mr. DHRUV SHARMA Ms. M. S. SANJANA Mr. SUBHASH MALIPATIL
393.	47S_BE_2083	NEUROMIST REVIVE: MOIST HEAT THERAPY FOR SPINAL RECOVERY AND BACKACHE RELIEF	B.E.	MEDICAL ELECTRONICS	Prof. NANDITHA KRISHNA	Ms. NISARGA V. Ms. LAXMI
394.	47S_BE_2246	SIGN LANGUAGE GESTURE RECOGNITION USING AI	B.E.	MEDICAL ELECTRONICS	Dr. S. HEMA PRIYADARSHINI Prof. AMITH PRADHAAN	Ms. SINDHU B. L. Ms. SANJANA S. KASHYAP
395.	47S_BE_3318	CONJUNCTIVAL IMAGE ANALYSIS FOR NON-INVASIVE HEMOGLOBIN ESTIMATION AND ANEMIA DETECTION	B.E.	MEDICAL ELECTRONICS	Dr. S. HEMA PRIYADARSHINI	Ms. HARINI S. Ms. P. AKSHATHA
396.	47S_BE_4765	AT HOME RECOVERY - AN IOT BASED PHYSIOTHERAPY MONITORING SYSTEM	B.E.	MEDICAL ELECTRONICS	Dr. SRINIVAS HALVI	Ms. K.A. SHREE VAISHNAVI Ms. SAKSHI R. KULKARNI

48. DAYANANDA SAGAR UNIVERSITY, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
397.	47S_BE_1059	TARGET TYPE THRUST REVERSAL SYSTEM	B.E.	AEROSPACE ENGINEERING	Prof. SRIPAD KULKARNI S.	Mr. NISCHAL KUMAR K. S. Mr. MOHAMMED ABBAS S. Mr. MOHAMMED SAHIL
398.	47S_BE_2721	IDENTIFICATION OF NEUROLOGICAL DISEASES USING ECG DATA	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. ARJUN KRISHNAMURTHY	Mr. N. U. HARSHA TEJAS Ms. RAYE HAARIKA Ms. K. KUSUMITHA Ms. HARI PRADHA P.
399.	47S_BE_0727	AI VOICE ORIENTED FRAUD DETECTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SRIDHAR S. K.	Ms. KUNIKA MATHUR Ms. LAKSHITHA S. Ms. MONICA MAHESH Ms. NANDITHA M.
400.	47S_BE_0820	IDENTIFYING AND PREDICTING / DIAGNOSING COMMON MENTAL DISORDERS BY DIGITAL PHENOTYPING USING A MOBILE APP	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. BASAVARAJ N. HIREMATH Dr. GOPAL DAS C. M.	Ms. SANAA KITTUR Ms. SHERMEEN ULFAT Ms. SHRAVANA Ms. SWATI PRIYA
401.	47S_BE_1195	AUTOMATION OF BEHAVIORAL GRADING FOR GOOGLE CLASSROOM ASSIGNMENTS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MEENAKSHI MALHOTRA	Ms. KEERTHANYAA N. Mr. J. GYANASAI DIXITH Mr. K. SANTHOSH Mr. KIRAN B. MALAGI
402.	47S_BE_1252	ENVIRONMENTAL IMPACT ANALYSIS USING SATELLITE IMAGE PROCESSING: A CASE STUDY ON BANGALORE STRR PHASE-1	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. RAJESH T. M.	Mr. VARUN P. SHRIVATHSA Ms. SMRITI REDDY U. Mr. GIRISH SINGH B. S.
403.	47S_BE_1386	PREDICTION OF RESPIRATORY DISORDER USING SOUND VIA DEEP LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. BONDU VENKATESWARLU	Ms. SHREYA NAGA SAI MALEPATY Ms. ISHA M. Ms. SHREYA S. Ms. TAMANNA VERMA
404.	47S_BE_2433	KEYSTROKE DYNAMICS FOR CONTINUOUS USER AUTHENTICATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. SUVIKA K. V.	Mr. KAPIL ADARSH S. A. Mr. DARSHAN KUMAR M. Mr. GUNTUR LOHITH SAI Mr. JASIN JAYACHANDRAN
405.	47S_BE_2485	A MODEL FOR ESTIMATING AND CGARACTERIZATION OF BIOMASS IN THE FOREST REGIONS. A CASE STUDY - BANNERGHATTA NATIONAL PARK	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. RAJESH T. M.	Ms. ADITI A. NAVALE Mr. GAGANDEEP B. R. Ms. NEHA D. JAGTAP
406.	47S_BE_3630	READING EYE FOR BLIND USING RASPBERRY PI	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PRAMOD KUMAR NAIK	Mr. KISHORE KUMAR K. Mr. PAVAN KUMAR Mr. MADHAV JADHAV Mr. SHASHIDHARA K. M.
407.	47S_BE_3879	A PROXY RE-ENCRYPTION TO SECURE INTERNET OF THINGS DATASHARING IN BLOCKCHAIN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VISHWAS D. B.	Mr. DHANUSH E. Mr. HARSHITH N. Mr. CHIMPIRI SAI KIRAN Mr. JAGANNATH N.
408.	47S_BE_5480	AUTOMATIC FISH FEEDER USING COMPANION APP	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NANDINI K.	Ms. POOJA V. KUMAR Ms. N. MEGHANA Ms. S. ANANYA Ms. RASHMITHA M.

409.	47S_MSC_0054	PREDICTIVE QSAR MODELING FOR THERAPUTIC STRATEGIES TARGETING SM16 PROTEIN'S IMMUNE MODULATING ROLE IN HOST-PARASITE INTERACTION	M.Sc	GENETICS	Dr. PRONAMA BISWAS	Ms. KALYANI S. BIJU Ms. VONDHANA R. Ms. VARSHITHA KRISHNA

49. DON BOSCO INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
410.	47S_BE_4556	SAMRAKSHAN	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. MANU K. S. Dr. ANASUYA N. J.	Mr. ANISHA H KANDACHAR Mr. AKASHDEEP GANGATKAR M. Ms. SANDYA PATIL Mr. DARSHAN L.
411.	47S_BE_4621	CONSTRUCTNET: APPLICATION FOR CONSTRUCTION MANAGEMENT AND INTELLIGENT RECOMMENDATIONS	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. B. KURSHEED	Mr. SAI KAPIL KUMAR P. G. Mr. SHARON SAJAN M. O. Mr. AKSHAY H. R. Mr. NISHANTH URS S. V.
412.	47S_BE_2615	ETHERHITCH: JOIN THE RIDE-SHARE REVOLUTION USING BLOCKCHAIN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MANJUNATHSWAMY B. E.	Mr. HEMANTH B. N. Mr. ADITHYA RAGHAV V. Mr. ANANDA ARALAGUNDAGI D Mr. CHANDAN GOWDA N.
413.	47S_BE_2688	TRANSPARENCY IN CARBON CREDIT USING BLOCKCHAIN AND IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. VENUGEETHA Y.	Mr. S. SUHAS Mr. NIKHIL M. G. Mr. NITISH K. L. Mr. SANTOSHKUMAR
414.	47S_BE_4268	DETECTING STRESS LEVELS IN IT PERSONNEL USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MANJUNATHSWAMY B. E.	Mr. K. SURYATEJA Mr. SHAILESH B. S. Mr. M. RISHI GOWDA Mr. SHAMAN D.
415.	47S_BE_4586	EVALUATION OF SUBJECTIVE ANSWERSCRIPT USING ML	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SAMEENA BANO	Mr. ADITYA RAJ GUPTA Mr. ESHAN KUSHWAH Mr. ABHISHEK R. Mr. HARSH SINGH
416.	47S_BE_3910	DESIGN AND FABRICATION OF ROTARY SPARK GAP SWITCH FOR PLASMA APPLICATIONS: STUDY ON SEED GERMINATION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. ANGURAJA R. Mr. R. SANTHOSH KUMAR	Mr. BHARATH S. P. Mr. B.S. JAYANTH GOWDA Mr. SRINIVAS N. Ms. VARSHINI C.
417.	47S_BE_1619	NURTURING FEMININE SAFETY AND HYGIENE SOLUTION - NAPKIN VENDING & DISPOSAL QR CODE SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. BHAGYA P. Dr. ASHWATH NARAYANA B. S.	Ms. RAKSHITHA S. HIREMATH Mr. SYED SAUD UR REHMAN
418.	47S_BE_2393	PAN GEL POLYMER BASED PVDF/CNTS COATED ALUMINIUM-AIR BATTERY (AL-AIR TECHNOLOGY - REQUIRES NO ELECTRICITY)	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. ASHWATH NARAYANA B. S.	Mr. DARSHAN GOWDA M. Mr. AKSHAY C. S. Mr. BHARATH V. Mr. DEEPAK B.
419.	47S_BE_2420	RASPBERRY PI BASED WEARABLE TEXT TO SPEECH COMPANION FOR EYES FREE READER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. TEJASWINI M. L.	Ms. KIRANMAYI M. Ms. BHUMIKA P. Ms. CHAITHANYA C. Mr. HARSHA N.
420.	47S_BE_2599	TRAFFIC CONTROL SYSTEM USING IOT AND MACHINE LEARNING FOR ADAPTIVE AMBULANCE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SURESHA H. S.	Ms. JAYASHREE A. R. Ms. APOORVA M. Mr. DEEPAK C. GOWDA Mr. GOUTHAM B.
421.	47S_BE_3660	VOICE SIGNAL PATHOLOGY CLASSIFICATION WITH DEEP LEARNING METHODOLGY	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. SALMA JABEEN Dr. MANJUNATHSWAMY B. E.	Mr. ABHISHEK A. H. Mr. K. SRINIVASREDDY Mr. LOKESH YARASHI Mr. MADHU D. K.
422.	47S_BE_3836	EMPOWERING STETHESCOPE LISTENING: A SMART ANDROID APP	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. SALMA JABEEN Dr. MANJUNATHSWAMY B. E.	Ms. DIVYA P. Ms. DHANYATHA R. Ms. GAGANA M. Ms. GOWRI R.
423.	47S_BE_3902	HARVEST EASE: ROBOTICS FOR SUSTAINABLE FARMING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. BASAVARAJ G. M.	Ms. LAKSHMI R. Ms. DIVYASHREE G. Ms. JAYALAKSHMI P. Ms. JEEVITHA T.
424.	47S_BE_3980	FAKE FACE DETECTION USING DEEP NEURAL NETWORK, CNN AND RNN	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. EMMANVEL RAJ M. CHIRCHI	Mr. SUJAN T. R. Ms. RAKSHITHA S. Mr. ULLAS GOWDA N. S. Mr. SHIVUKUMARA

425.	47S_BE_3994	VITAMIN DEFICIENCY DETECTION USING IMAGE PROCESSING AND NEURAL NETWROK	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. B. K. RAGHAVENDRA Dr. BASAVARAJ NEELGAR	Ms. SANJANA M. S. Ms. MUCHALAPURI NAGA KEERTHANA Ms. SNEHASHREE R. Ms. TRISHA K. C.
426.	47S_BE_4118	PIN AUTHENTICATION BASED ON EYE BLINKING USING HARCASCADED ALGORITHM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. EMMANVEL RAJ M. CHIRCHI	Mr. MOHAN B. K. Mr. SUMANTH PUROHITH G. P. Mr. CHANDU N. C.
427.	47S_BE_4215	ESPIAL OF APPLICATION-LAYER DDoS ATTACK USING MACHINE LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. DEEPIKA A. B.	Ms. BHOOMIKA K. Ms. KAVANASHREE S. Ms. BHOOMIKA B. S. Ms. KAVANA G. P.

50. Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
428.	47S_BE_1431	PROPELLER TEST RIG-MONITORING WITH ARDUINO TECHNOLOGY	B.E.	AERONAUTICAL ENGINEERING	Prof. C. M. VIGNESWARAN	Ms. INDUJA J. Mr. BHARATH K. S. Ms. SPOORTHI M. J. Ms. CHETHANA A. R.
429.	47S_BE_2623	FEASIBILITY STUDIES AND STRENGTH EVALUATION OF PAPER SLURRY AND GRANITE WASTE SLUDGE CONCRETE SPECIMENS	B.E.	CIVIL ENGINEERING	Dr. ASHWINI L. K.	Mr. PRASAD Mr. SANGAMESH DONUR Ms. RAKSHITHA H. C. Ms. SHARANYA N. R.
430.	47S_BE_4460	AQUALINK COMMUNICATION USING ACOUSTIC MODEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MADHU B.	Ms. LIKHITHA R. Ms. LAVANYA N. Ms. PRAJNA M. S. Ms. POOJA K. C.
431.	47S_BE_5153	EXPLOSAFE - A LORAWAN BASED DEFENSE SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MADHU B.	Ms. AMRUTHA ANILKUMAR JOSHI Ms. ASHWINI K. Ms. DISHA N. KULAL Mr. JAYANTH KRISHNAMURTHY
432.	47S_BE_5238	SUPPLY SPHERE: ORBITING SUPPLY CHAIN MANAGEMENT WITH BLOCKCHAIN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SMITHA SHEKAR B. Dr. HARISH G.	Mr. KRTIN U. SHET Mr. MAHENDAR PATEL Ms. NIRA UDAS Mr. NISHANTH V.
433.	47S_BE_4692	DESIGN OF 6G ANTENNA	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SUDHA B. S.	Mr. CHINMAY M. Ms. ANUSHA CHOWDARY D. Ms. MADHUSHREE
434.	47S_BE_5011	IOT BASED HYDROPHONICS SYSTEM USING MACHINE LEARNING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. C. S. KAVITHADEVI	Ms. SONASHREE T. R. Ms. SUPRABHA G. Ms. VACHANSHREE Ms. CHAITHRA A.
435.	47S_BE_4410	DESIGN AND FABRICATION OF SERPENT ROBOT FOR GEOGRAPHICAL MAPPING IN HOSTILE ENVIRONMENTS.	B.E.	MECHANICAL ENGINEERING	Prof. S. K. JAGADEESH	Mr. PRASHANTH K. N. Mr. PRAMODH Mr. SHRUNGESH B. Mr. YASHWANTH K. S.
436.	47S_MTech_0038	STRENGTH AND DURABILITY STUDIES ON CONCRETE UTILIZING SEWAGE SLUDGE ASH AND TREATED SEWAGE WATER	M.Tech	STRUCTURAL ENGINEERING	Dr. ASHWINI L. K. Dr. M. N. HEGDE	Mr. LOKESH B. K. Mr. YASHWANTH G.

51. Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY, KOLAR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
437.	47S_BE_2165	DEEP LEARNING FRAME WORK BASED ON AUTOMATED DETECTION AND CLASSIFICATION OF PULMONARY DISEASES USING VGG-16 AND RESNET 50 ARCHITECTURES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. INBALATHA K.	Ms. BHAVANA G. Ms. NAGAMANI M.
438.	47S_BE_2942	COAL MINE SAFETY MONITORING AND ALERTING SYSTEM USING SMART HELMET	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	PROF. RAJESH KUMAR KAUSHAL	Ms. SINDHUJA V. C. Ms. RUFINA R. F. Ms. SUNITHA P.

52. EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
439.	47S_BE_1456	PRESSURE DROP EFFECT OF STAGE GAP ON TWO STAGE ORIFICE PLATE AND COMPARISON WITH CONVENTIONAL ORIFICE	B.E.	CIVIL ENGINEERING	Dr. NAGARAJ SITARAM	Mr. GAGAN KUMAR G. M. Mr. ABHILASH GOWDA V. Mr. BAAPU B. M.

440.	47S_BE_1964	COMPUTER VISION-BASED MOBILE APPLICATION FOR VISUALLY IMPAIRED	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. DIVYA U. H.	Mr. KALLURI SAITEJA Mr. KRISHNA CHAITANYA S. Mr. HARI BALAJI V. Mr. KANCHAM HARIPRASAD
441.	47S_BE_4602	BOOSTING NETWORK SECURITY: A COMPARATIVE ANALYSIS OF DEEP LEARNING TECHNIQUES FOR INTRUSION DETECTION USIN CNN AND RNN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. HEENA KOUSAR	Mr. ADARSH PAWAR Mr. MOHNISH REDDY G. Mr. MUKESHREDDY NAGIREDDYGARI Mr. SHAIK ATHIQ REHAMAN
442.	47S_BE_3236	DEVELOPMENT OF RAPID AND LOW-COST PAPER-BASED IMPEDANCE SENSOR FOR BACTERIAL DETECTION IN BOTTLED DRINKING WATER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. MANJUNATHA M. Dr. ANITA R.	Ms. SUMATHI H. S. Ms. POORNIMA SUB K. Ms. ANUSHA K. P. Ms. RAMYA S.
443.	47S_BE_3772	SECURE BALLOT SYSTEM: BLOCKCHAIN BASED E-VOTING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. NEELIMA SAHU Prof. SINDHUJA M.	Mr. PUNITH M. Ms. THANUSHREE L. C. Mr. SUMANTH N. V. Mr. RANJAN R.
444.	47S_BE_3892	REAL TIME MONITORING OF COMA PATIENT USING OPENCV	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. NEELIMA SAHU Prof. VAISHALI SHENDE	Mr. SHIVSAGAR MATHPATHI Ms. TASMIYA K. Mr. NIYAM RAI Mr. SUMITH S. V.
445.	47S_BE_4953	DEEP LEARNING APPROACH FOR HUMAN STRESS DETECTION USING HAAR CASACDE	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SHILPA M. I. Prof. MANJULA A. K.	Mr. MOHAMMED HAARIS Ms. NOORIE TAIYABA F. M.

53. EAST WEST COLLEGE OF ENGINEERING, YELAHANKA, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
446.	47S_BE_3155	DESIGN AND FABRICATION OF UAV FOR LANDMINE DETECTION AND SIMULTANEOUS LOCALIZATION AND MAPPING (SLAM)	B.E.	AERONAUTICAL ENGINEERING	Prof. N. PRABAKARAN	Mr. KRISHNAMURTHY S. Mr. NIHAL V. Ms. NETHRAVATHI S.

54. EAST WEST FIRST GRADE COLLEGE OF SCIENCE, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
447.	47S_MSC_0266	COST EFFECTIVE PROBIOTICS FROM AGROINDUSTRIAL WASTES FOR CHANGES IN GUT MICROBIOTA AND GROWTH OF ANIMALS	M.Sc	BIOTECHNOLOGY	Dr. KUMAR SWAMY M. Mrs. PADMASHREE B. S.	Mr. JEEVAN V. S. Mr. VINAY ATHREY Ms. LAKSHMI N. Ms. LATHA K.

55. EAST WEST INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
448.	47S_BE_1318	AGE INVARIANT FACE RECOGNITION SYSTEM	B.E.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	Mrs. SHRUTHI T. V.	Mr. H. P. RUTHVIK Mr. R. C. AMITH Mr. DARSHAN M. Mr. GOUTHAM D.
449.	47S_BE_3727	ANOMOLY DETECTION FOR VIDEO SURVEILLANCE	B.E.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	Mrs. PRAKRUTHI G. R.	Mr. MAHIM H. M. Mr. CHIRAAG R. MISHRA Mr. MOHAMAD SHAMIL
450.	47S_BE_0380	NANO TREE WITH SMART LIGHTING TECHNOLOGY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. VIDYA E. V.	Ms. P. K. VAISHNAVI Ms. PRATHIBHA M. Ms. PUNYA S. M Ms. RASHMI S.
451.	47S_BE_0381	NAARI SHAKTHI - EMPOWERING RURAL COMMUNITIES WITH AI POWERED SOLUTIONS FOR SANITARY HEALTH	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MOHAN B. R.	Ms. HARSHITHA N. Mr. JAYADEEP G. Ms. JEEVITHA Y. D. Mr. KARTHIK J.
452.	47S_BE_0409	RAILSAFE: ADVANCING RAILWAY SAFETY THROUGH AUTOMATED GATE CONTROL, SMOKE DETECTION AND AIRBAG SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ACHYUTHA PRASAD N.	Ms. PRIYA S. Ms. PRIYA R. Ms. PREKSHA C. Ms. PAVITHRA M. R.
453.	47S_BE_0415	ADVANCED IOT SOLUTIONS TO MONITOR UNDERPASS WATER LOGGING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. VIDYA E. V.	Mr. VIMUKTHI B. V. Mr. JEEVAN MUDDAJJI Mr. JYOTHI PRAKASH P. Mr. KARTIK

454.	47S_BE_0531	IOT BASED RAILWAY TRACK FAULTS AND DISASTER DETECTION, CHECKING FOR PLATFORM AVAILABILITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHASHIKALA A. B.	Ms. HARSHITHA M. B. Ms. SHEETAL Ms. SINDHU T. Ms. SONU M. K.
455.	47S_BE_0533	SECURED DATA TRANSFER WITH ADVANCED ENCRYPTION AND DECRYPTION PROCEDURE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHWETHA N.	Ms. BHUMIKA M. Ms. HARSHITHA F.
456.	47S_MTech_0025	EXPLAINABLE ARTFICIAL INTELEGENCE IN CYBERSEURITY	M.Tech	COMPUTER SCIENCE AND ENGINEERING	Dr. ACHYUTHA PRASAD N.	SAVITHA B.
457.	47S_BE_2831	PARKING SYSTEM USING IMAGE PROCESSING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. USHA B. S.	Mr. PAVAN KUMAR M. Mr. GAURAV S. Mr. PUNYESH B. N. Mr. RIKITH THAMMAIAH T. K.
458.	47S_BE_4787	HYBRID POWERED IOT BASED SMART POLE FOR EV CHARGING ON HIGHWAYS	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. GAYATRI CHAVAN Prof. RASHMI G.	Mr. ABHISHEK A. P. Mr. DUSHYANTH M. N. Mr. TEJA M. V. Mr. NANDAN K.
459.	47S_BE_1184	MANHOLE DETECTION AND MONITORING SYSTEM FOR SAFE AND CLEAN SOCIETY	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SHRUTHI T. V.	Mr. PRAJWAL KUMAR M. T. Mr. MADHUKESHWAR HEGDE Mr. ARUN HEGDE
460.	47S_BE_1263	DEEPFAKE VIDEO DETECTION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. SURESH M. B.	Mr. LIKHITH P. Mr. ABHISHEK T. N. Mr. CHETHAN GOWDA R. Mr. DINESH N.
461.	47S_BE_1371	INTELLIGENT AMBULANCE	B.E.	INFORMATION SCIENCE AND ENGINEERING	Ms. K. S. SMITHA	Mr. NIKHIL H. L. Ms. BHUMIKA G. V. Ms. ROSHINI N. POOJARY Mr. SHANKAR M. HEGDE
462.	47S_BE_5113	DUAL AXIS SUNFLOWER SOLAR TRACKING SYSTEM WITH AUTOMATIC STREET LIGHT CONTROL	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. HEMANTH KUMAR K.	Ms. ARCHANA G. T. Ms. CHAITHRA H. C. Ms. DHANUSHREE K. N. Ms. LAVANYA S.
463.	47S_BE_4668	DEVELOPEMENT OF FLOATING WASTE CLEANING ROBOT FOR LAKES & RIVERS	B.E.	MECHANICAL ENGINEERING	Mr. PRASHANTH S.	Mr. KIRAN PRAKASH Mr. ARAVIND RAJ G Mr. MADHU KIRAN Mr. PURUSHOTHAM

56. G. MADEGOWDA INSTITUTE OF TECHNOLOGY, MADDUR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
464.	47S_BE_2679	DETECTION OF PHYSICO-CHEMICAL ANALYSIS OF GROUNDWATER BY USING GIS AND RS	B.E.	CIVIL ENGINEERING	Prof. SUMA T. N. Prof. MAHADEVA C. K.	Ms. SOWBHAGYA S. M. Ms. SUJATHA N. J. Mr. NIRANJAN N. Mr. MANOJ U. S.
465.	47S_BE_3904	EVALUATION OF ULTRA HIGH-PERFORMANCE CONCRETE EXPOSED TO ELEVATED TEMPERATURE	B.E.	CIVIL ENGINEERING	Prof. SUMA T. N. Prof. MAHADEVA C. K.	Mr. PUNEETH D. Mr. PREETHAM R. Ms. LAVANYA H.
466.	47S_BE_2929	BOTANICVISION: REVEALING THE SECRETS OF MEDICINAL PLANT THROUGH IMAGE PROCESSING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. PADMAVATI K. Ms. SUSHEELA N.	Ms. MADHUSHREE D. N. Ms. NISARGA N. L. Ms. SHREYA R. PISSAY Ms. SIRI R. PISSAY
467.	47S_BE_3793	DESIGN AND DEVELOPMENT OF COST-EFFECTIVE ELECTRIC VEHICLE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mrs. SUMITHA C. Dr. CHANDAN B. R.	Mr. ABDUL REHAMAN Mr. NITHIN S. R. Mr. SIDDESH M. R. Mr. ABHISHEK Y. M.
468.	47S_BE_4754	DESIGN AND FABRICATION OF SANITARY NAPKINS INCENERATOR	B.E.	MECHANICAL ENGINEERING	Ms. PRASHANTH S. Dr. RAJATH H. G.	Mr. THARUN KUMAR R. Mr. PRAJWAL GOWDA H. A. Mr. VARDHAN D. R.
469.	47S_BE_4982	DESIGN AND FABRICATION OF GARBAGE COLLECTOR ON BEACH USING SOLAR POWER	B.E.	MECHANICAL ENGINEERING	Dr. RAJATH H. G. Mr. PRASHANTH S.	Mr. SHIVU V. Mr. PUNEETH G. M. Mr. MANOJ K. S. Mr. YASHWANTH GOWDA G. N.

57. G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
470.	47S_BE_4822	PREDICTION OF SILKWORM COCOON SHELL WEIGHT AND QUALITY USING MACHINE LEARNING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Mr. PRAVEEN R.	Ms. RACHITHA A. Ms. ANKITHA R. Ms. SINCHANA H. S.

471.	47S_BE_2725	DESIGN AND DEVELOPMENT OF SMAL SCALE COMPOSTING PLANT FOR HOUSE HOLD WASTE MANAGEMENT	B.E.	BIOTECHNOLOGY	Dr. PAVAN K. J. Dr. PRADEEP M. J.	Mr. AKSHAY JAGADISH SHET Mr. KIRAN B. Mr. DILEEP G.
472.	47S_BE_3078	BIOSYNTHESIS OF SILVER NANOPARTICLES FOR APOPTOSIS AND ANTICANCER STUDIES AGAINST LUNG CANCER.	B.E.	BIOTECHNOLOGY	Dr. PRAKASH K. K. Ms. SUSHMA B. S.	Ms. SINDHU RAJEEVAGOUDA PATIL Ms. AKSHATA NAGENDRAPPA BALIGAR Ms. BHAVANA H. Ms. HARSHITHA H. U.
473.	47S_BE_3257	DEVELOPMENT OF BIODEGRADABLE SACS FOR FRUIT RIPENING USING RICE STARCH	B.E.	BIOTECHNOLOGY	Dr. GURUMURTHY H. Dr. PRADEEP M. J.	Ms. NAVYA J. M. Ms. NAMITHA H. N. Ms. PRIYA R. PANIBHATE Ms. TANAYA TIWARI
474.	47S_BE_2364	STUDY OF CONCRETE USING ARECA NUT HUSK ASH AND RICE HUSK ASH ON PARTIAL REPLACEMENT OF CEMENT	B.E.	CIVIL ENGINEERING	Dr. B. K. VARUN	Mr. SHASHANK D. A. Mr. MOHAMMAD ASHRAF PARRAY Mr. SIRAJ SALEHEEN ZAFFARI Mr. YASHWANTH RAO G. SINDHE
475.	47S_BE_2753	PHYTOREMEDIATION FOR TREATING DOMESTIC WASTE WATER	B.E.	CIVIL ENGINEERING	Dr. KIRANKUMAR H. S.	Ms. SANJANA K. S. Ms. DEEPTHI H. J. Mr. VIKRANTH B. Mr. VINAYAKA K. B.
476.	47S_BE_3196	FEASIBILITY STUDY ON APPLICATION OF PHYTORID TREATED DOMESTIC WASTE WATER	B.E.	CIVIL ENGINEERING	Mrs. SPOORTHI B.	Mr. FAIZAN KHAN Ms. BHOOMIKA U. C. Ms. SUSHMA B. J. Ms. USHA M.
477.	47S_BE_3706	STABILIZED ADOBE BLOCKS USING WASTE PRODUCTS	B.E.	CIVIL ENGINEERING	Mr. PUTTARAJ M. H.	Mr. BHUSHAN KANAVI Mr. ABHISHEK R. Ms. SHUBHALAKSHMI PATIL Mr. VISHALGOUDA M. PATIL
478.	47S_BE_2900	ECO-CHARGE: EMPOWERING HOMES FOR SUSTAINABLE MOBILITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. NAYANA K.	Mr. VARUN S. PATIL Mr. SANDESH C. S. Mr. SHREE HARSHA B. K. Mr. TUSHAR B. R.
479.	47S_BE_3414	EDU AR: AUGMENTED REALITY ENHANCED E-LEARNING APPLICATION FOR KIDS WITH DOWN SYNDROME	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. NAYANA K.	Ms. DISHA M. J. Ms. CHANDANA S. RAMANAHALLI Mr. ADITHYA R. KASHYAP Mr. ADITYA U. PAI
480.	47S_BE_2654	IOT BASED CROP MONITORING AND CROP RECOMMANDATION USING MACHINE LEARNING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. MANJULA B. K.	Mr. DARSHAN P. S. Mr. ABHISHEK H. S. Mr. KALLESHA G. A. Ms. AISHWARYA M. C.
481.	47S_BE_3309	DSP INTEGRATION FOR SMART COMPOST MONITORING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. SUPRITH P. G.	Ms. AMULYA B. GAEKWAD Ms. AISHWARYA N. Ms. ANUSHA R B Mr. KARTHIK K. S.
482.	47S_BE_2671	EAZYEYES: AN EFFICIENT EYE TYPING APPLICATION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. NEELAMBIKE S.	Ms. DEVIKA M. Ms. DYAMALAMBA C. Ms. HEMASHREE C. H. Ms. SANJANA R.
483.	47S_BE_3693	MACHINE LEARNING METHODS FOR NETWORK INTRUSION DETECTION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. FIROZ KHAN	Mr. VEERESHA T. R. Mr. ADARSH D. C. Mr. DEEPAK BABA H. M. Mr. NANDISH M. K.
484.	47S_BE_3705	PRESCRIBOCARE (MEDICAL PRESCRIPTION RECOGNITION MODEL USING ML)	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. NASREEN TAJ MB	Ms. RIZA FATHIMA Mr. ASRAR S. B. Mr. ARSHAD KHAN Mr. SUMANTH M.
485.	47S_MBA_0132	THE COMPREHENSIVE STUDY ON ADOPTION AND IMPACT OF ORGANIC FARMING IN RURAL AREAS WITH REFERENCE TO BEVINAHALLI, HARIHAR TALUK, DAVANAGERE DISTRICT	MBA	MBA	Dr. K. JAGADESWARI Mr. VINAY I.	Ms. RACHANA B. M. Ms. KAVYASHREE H. P. Mr. DARSHAN P. S.
486.	47S_MBA_0158	INNOVATIVE APPROACHES FOR E-WASTE RECYCLING AND RESOURCE RECOVERY WITH REFERENCE TO DAVANGERE CITY (KARNATAKA)	MBA	MBA	Dr. K. JAGADESWARI Mr. SHREESHAILA P VIJAVAPUR	Ms. RAKSHITHA M. Mr. SUMAN M. Mr. MEGHARAJ P. Mr. BHARATESH A. P.

487.	47S_BE_1921	DESIGN AND DEVELOPMENT OF RECYCLED MATERIAL LOWER LIMB EXOSKELETON FOR IMPROVED MOBILITY AND HEALTH ASSESSMENT IN PHYSICALLY CHALLENGED INDIVIDUALS	B.E.	MECHANICAL ENGINEERING	Dr. MUDASAR PASHA B. A.	Mr. MUZAMMIL BASHA Mr. JAYAKUMAR GOPAL SHETASANADI Mr. MUNI P. Mr. MOHAMED ARBAZ K.
488.	47S_BE_2079	IOT-BASED EARTH-SYMBIOTIC SMART AIR CONDITIONING	B.E.	MECHANICAL ENGINEERING	Mr. SURESH BABU S. U.	Mr. PRATHIK D. B. Mr. BALRAJ M. Mr. SATISH M. V. Mr. SHIVAGIRI M. S.
489.	47S_BE_2310	BATTERY THERMAL MANAGEMENT SYSTEM FOR ELECTRICAL VEHICLE USING MAT LAB	B.E.	MECHANICAL ENGINEERING	Dr. BASAVARAJAPPA S. Mr. ANIL KUMAR T. R. B	Mr. GOMBI RAVIKIRAN Ms. MANASA J. Mr. KOTRESH H. G. Ms. BINDU SHREE B. R.

58. G.S.S.S. INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN, MYSURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
490.	47S_BE_0977	EDUWHIZ - AN IOT BASED CHATBOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. ASHA RANI M.	Ms. BHAVAANI K. Ms. AASHREETHA L. Ms. BHUVANESHWARI P. N. Ms. GUNAMADHU N.
491.	47S_BE_0985	DRONOBOT REPORTER USING ETHERNET-LESS HAM RADIO SSTV	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. RAVIRAJ P.	Ms. AKSHATHA G. S. Ms. BINDYA ANTONY Ms. CHARISHMA C. Ms. DEEPIKA B. N.
492.	47S_BE_1090	DESIGN AND DEVELOPMENT OF AUTO POWER CONVERSION FOR EV TWO-WHEELER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. BHARATHI R.	Ms. INCHARA K. S. Ms. ANANYA JOIS Ms. HARSHITHA H. S. Ms. B. V. MANASA
493.	47S_BE_1155	GUARDIANBOT: ADVANCING MARINE CONSERVATION THROUGH PLASTIC CLEANING AND SURVEILLANCE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. ARPITHA SHANKAR S. I.	Ms. DIVYA MOHAN Ms. DIVYASHREE N. Ms. KEERTHANA C. Ms. KEERTHANA H. K.
494.	47S_BE_1159	FIRE FIGHTING ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. BHARATHI R.	Ms. RAKSHITHA S Ms. RAMYASHREE N. Ms. RANJITHA R. Ms. TASMEEN TAJ
495.	47S_BE_1029	DESIGN AND DEVELOPMENT OF ROBOTIC VEHICLE TO ASSIST THE PATIENTS IN ISOLATION WARD	B.E.	ELECTRONICS AND INSTRUMENTATIO N ENGINEERING	Mrs. LALITHA K. Dr. M. V. SRINIVAS RAO	Ms. TEJASWINI K. S. Ms. H. R. MANDHARA Ms. HEMA P.
496.	47S_BE_1146	DESIGN AND INITIATION OF LIDAR BASED VISIBILITY DISTANCE ESTIMATION UNDER ADVERSE WEATHER FOR COLLISION AVOIDANCE IN FOG.	B.E.	ELECTRONICS AND INSTRUMENTATIO N ENGINEERING	Mrs. AMRUTHA R. Mrs. SOWJANYA M. N.	Ms. SOWJANYA S. K. Ms. RANJUSHREE N. R. Ms. SUSHMITHA K. S.
497.	47S_MBA_0041	GEN Z AND HYBRID VEHICLES: AN EXPLORATION OF ADOPTION DRIVERS	MBA	FINANCE, MARKETING AND HUMAN RESOURCES	Dr. SHASHIDHAR S. MAHANTSHETTI Ms. SONAL SAWAKAR	Ms. BHANUPRIYA S. R. Ms. NISARGA G. Ms. KAVANA V. R. KEERTHANA B
498.	47S_BE_1436	TALKHANDS: COMMUNICATING WITH THE SILENCED USING A MACHINE LEARNING POWERED SIGN LANGUAGE CONVERTER	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. ANAND M.	Ms. SAMIKSHA D. PATIL Ms. BHOOMIKA H. D. Ms. KARUNYA M. SIDDI Ms. YASHASWINI M.
499.	47S_BE_1581	IOT BASED FISH FEEDING AND MONITORING SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. CHAYA P.	Ms. SOWNDARYA S. Ms. DHANUSHREE V. Ms. DHANYATHA S. R. Ms. DISHA S.

59. GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, GITAM OFF CAMPUS, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
500.	47S_BE_0761	CROSS VOTER DETECTION USING ZYNQ 7000 SOC	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. M. ARUN KUMAR	Ms. A. ANITHA Ms. N. SAI NIKHITHA Ms. K. JAHNAVI DEVI Ms. D. NANDINI
501.	47S_BE_3478	INTEGRATED SOLDIER SUPPORT SYSTEM (IS3): ENHANCING NAVIGATION, COMMUNICATION, AND HEALTH MONITORING IN WARFARE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SUNITA PANDA Mrs. DIOLINE SARA	Ms. SADUVULA LATHA SREE Ms. BASINENI YASHASWINI Ms. VARSHA K. Ms. THAMMINENI MANISHA

60. GARDEN CITY UNIVERSITY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
502.	47S_MSC_0145	IMPLEMENTATION OF ARTIFICIAL INTELLIGENCE FOR PRECISION WEED REMOVAL OF ZEA MAYS CROPS WITHIN THE KARNATAKA REGION	M.Sc	BIOTECHNOLOGY	Dr. L.A.RAMA CHANDRA PRASAD Dr. VANITHA KRISHNA SUBBAIAH	Ms. BELLAM DARSHITHA Mr. NAMA GOKUL Ms. BHASWATI ROY Ms. JAHNABI ROY
503.	47S_MSC_0146	DEVELOPMENT OF HAND COORDINATION LETTERS FOR PATIENTS WITH NEUROLOGICAL CONDITIONS	M.Sc	BIOTECHNOLOGY	Dr. ANNIE THOMAS Dr. VANITHA KRISHNA SUBBAIAH	Ms. SANJANA GIRI Mr. MAYURESH JAMKAR Mr. ARYAN PAWAN SAINI Ms. SAYALI DESHMUKH
504.	47S_MSC_0163	HAND HELD CLAW CANE	M.Sc	BIOTECHNOLOGY	Dr. PINKY DUTTA	Mr. K. JOHN NEHA Ms. ANNIE SMITHA S. Ms. P. SINDHU SHREE Ms. SWAGATA DEURI BHARALI
505.	47S_MSC_0171	URBAN GREEN MAPPER: CONNECTING FRUIT AND VEGETABLE MARKET WASTE ANALYSIS TO SUSTAINABLE ENERGY GENERATION AND HEALTH MAPPING IN URBAN COMMUNITIES FOR LONG-TERM SUSTAINABILITY	M.Sc	BIOTECHNOLOGY	Dr. KIRANKUMAR SHIVASHARANAPPA Dr. MANJUNATHA T. P.	Ms. VERTIKA SHARAMA Mr. ADRISH MAJUMDAR Ms. VIAJAYALAKSHMI C.
506.	47S_MSC_0259	ASSOCIATION BETWEEN PHYSICAL ACTIVITY LEVELS AND NON-COMMUNICABLE DISEASE IN ADULTS OF URBAN BANGALORE	M.Sc	BIOTECHNOLOGY	Dr. ANJALI SURESH	Ms. SHAGUFTA SHADAB Ms. RIDHAM MEGHANATHI Ms. KRITIKA SINGH Ms. AKSA ANN MATHEW
507.	47S_MCA_0095	AI ASSISTNAT FOR PC	M.C.A.	COMPUTER APPLICATIONS	Prof. THANGAMUTHU P. Prof. HARSHITHA N.	Mr. SAIDEEP Mr. PATEL BHAVIN RAMESHBHAI Mr. KATRAGADDA VARUNKUMAR Mr. M. JAYA BHANU PRAKASH
508.	47S_MSC_0215	SYNTHESIS OF RECYCLED POLYESTER TEXTILES THROUGH ADVANCED DIGITAL PRINTING METHODS	M.Sc	FASHION AND APPAREL DESIGN	Mr. KIRAN KUMAR P. Ms. GUDDI DEB SEN	Ms. SHAKTHISHREE G Ms. ANAGHA M. T.
509.	47S_MSC_0225	SYNTHESIS OF LATENT FINGERPRINT POWDER USING EGGSHELL NANOPARTICLES AND ROSE PETALS	M.Sc	FORENSIC SCIENCE	Prof. JOEMON K. J.	Mr. BHARATH KUMAR K. Mr. THOUSEEF AHMED R.
510.	47S_MSC_0240	VULNERABILITY TO VIGILANCE BUILDING ROBUST CYBERSECURITY PRACTICES AMONG AGING COMMUNITIES	M.Sc	FORENSIC SCIENCE	Dr. MAYURI SAHAY Dr. YERRISWAMY K.	Ms. PRATHIYUKSHAA V. Ms. LAVANYA S. KODARI Ms. THANUSHREE N.
511.	47S_MSC_0181	MICROBIAL ADAPTATION AND COPPER TOLERANCE CHALLENGES IN BIOLEACHING OF ELECTRONIC WASTE (E-WASTE)	M.Sc	LIFE SCIENCE	Dr. MANJUNATHA T. P. Dr. KIRANKUMAR S.	Mr. MAHABALA KHEBOJI Mr. DRUTHIK SHOURYA
512.	47S_MBA_0125	AUGMENTED AND VIRTUAL REALITY INTRODUCTION FOR TOURISM SITES IN KARNATAKA	MBA	MBA	Dr. PREM KUMAR Mr. DHELEEPAN G. VAITHIAPPAN	Mr. SAHIL UPPIN Mr. COL NAYANJYOTI BURAGOHAIN Ms. SOWMYA R. P. Mr. ATHARWA MALAWADE
513.	47S_MBA_0134	ENHANCING DIGITAL LITERACY IN FINANCE: A COMPREHENSIVE STUDY AND EDUCATIONAL INTERVENTION	MBA	MBA	Dr. SWETHA APPAJI PARIVARA Ms. ANUMITA CHAUDHURY	Ms. M. ARCHANA VYSHALI Mr. G. CHANDRAKANTH Mr. MANOJ KUMAR K. Mr. H. IDAYATHULLA
514.	47S_MSC_0125	DESIGN AND DEVELOPMENT OF SUSTAINABLE PLANT BASED CELLULOSE FILTERS FOR WASTEWATER PURIFICATION	M.Sc	MICROBIOLOGY	Dr. PREMA KULKARNI Dr. SHEEJA M. S.	Mr. AYANAVA GOSWAMI Mr. ASHUTOSH KUMAR Mr. TANMAY PRASHANT GADANKUSH

61. GLOBAL ACADEMY OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
515.	47S_BE_2719	AERO-ELASTIC DIVERGENCE BEHAVIOUR ON TAILORED COMPOSITE WING	B.E.	AERONAUTICAL ENGINEERING	Dr. BINO PRINCE RAJA D.	Ms. MRUDHULA S. Ms. DAKSHA B.
516.	47S_BE_3261	EXPERIMENTAL AND NUMERICAL ANALYSIS OF CARBON FIBER CROSSPLY LAMINATE UNDER HYGROTHERMAL CONDITIONS	B.E.	AERONAUTICAL ENGINEERING	Dr. BINO PRINCE RAJA D. Dr. SURESH C.	Ms. TEJESHWINI S. Mr. GAGAN KUMAR G. N. Mr. KIRAN KUMAR P. C.
517.	47S_BE_3001	AI-ENHANCED LEARNING PLATFORM FOR THE VISUALLY IMPAIRED	B.E.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	Dr. ASHWINI KODIPALLI Prof. TRUPTHI RAO	Ms. VASUKIRAN V. L. Ms. ADITI P. BELLUR
518.	47S_BE_3498	INTELLIGENT CODE REVIEW SYSTEM	B.E.	ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	Mr. ANAND PANDURANGA Mrs. TRUPTHI RAO	Mr. SAI AKHIL M. C. Ms. SANJANA SHARMA B. S.
519.	47S_BE_2342	FLOOD SUSCEPTIBILITY MAPPING FOR KORAMANGALA CHALLAGHATTA (KC) VALLEY USING AHP METHOD	B.E.	CIVIL ENGINEERING	Mrs. PALLAVI H. J. Dr. SHIVAKUMAR NAIKLAL	Mr. RICHARDSON Mr. GURURAJ ATNOOR Mr. MOHAMMED GHUFRAN Mr. ASIF ALI HAKEEM
520.	47S_BE_2475	COMPARATIVE STUDY OF POLLUTANT IN SEA WATER DUE TO URBANIZATION IN COSTAL LINE OF KARNATAKA	B.E.	CIVIL ENGINEERING	Mrs. VARUNA KOTI	Mr. SOORAJ SINDHEY Mr. LAKSHMISHA R. Mr. NITHIN N.
521.	47S_BE_3072	STUDY ON BUBBLE DECK SLAB	B.E.	CIVIL ENGINEERING	Ms. ANKITHA KIRANA KUMAR Dr. ALLAMAPRABHU	Mr. SANJAY K. N. Mr. GUNASHEKHAR C. Mr. HEMANTH KUMAR G. C. Mr. CHANDAN H. D.
522.	47S_BE_5165	STUDY ON EFFECT OF MOLARITY OF ALKALINE SOLUTION IN RED SOIL BASED ON GEO-POLYMER BRICKS	B.E.	CIVIL ENGINEERING	Mrs. PALLAVI H. J. Mr. DHAVALA SURESH	Mr. BHUVAN D. Mr. NAVEEN K. S. Mr. LIKITH GOWDA H. S. Mr. PRAVEEN R.
523.	47S_BE_1078	DEEP GUARD-PRECISION AERIAL TARGET AND CLUTTER CLASSIFICATION FRAMEWORK	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. JYOTHI R.	Ms. USHA KIRAN K. Ms. SINCHANA N. S.
524.	47S_BE_2780	BEYOND BOOKS: A NEW ERA OF SMART LEARNING WITH AUGMENTED REALITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VEENA V. PATTANKAR	Ms. YOGITHA P. Ms. SINCHANA S.
525.	47S_BE_2975	CONSTRUCTING SMALL LANGUAGE MODELS AS SME USING MINIMAL RESOURCES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VANISHREE M. L.	Ms. VAISHNAVI N. Ms. TEJASHREE S. Ms. SINCHANA K.
526.	47S_BE_3336	SELF CHARGING SOLAR SURVEILLANCE DRONE (AGRICULTURAL IMPLEMENTATION)	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. G. JAYCHITRA	Mr. MANOJ A. Ms. KUSHI K. Ms. ANAGHA K.
527.	47S_BE_1933	IOT ENABLED DYNAMIC CHARGING FOR EV WITH SOLAR INTEGRATION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. SHUBHA G. N.	Ms. HARSHITHA T. Ms. MONIKA C. R. Mr. PRANITH GOWDA
528.	47S_BE_2736	FINGERPRINT AND FACIAL RECOGNITION ENABLED VOTING SYSTEM USING THINGSPEAK	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. PREETHI K. SHARMA	Mr. JISSHNU N. S. Mr. KUSHAL V. Mr. LOHITH GOWDA
529.	47S_BE_2874	AN AUTOMATED WATER SURFACE CLEANING AND MONITORING SYSTEM USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SANGEETA K. SIRI	Ms. MONICA P. Ms. POORVI C. SHETTY
530.	47S_BE_3121	AN EFFIECIENT TRAFFIC SYSTEM FOR EMERGENCY VEHICLES USING INTERNET OF THINGS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SUBHASH KAMBLE	Mr. SHAMANTH K. N. Mr. S. BHARATH GOWDA
531.	47S_BE_4360	SUBGROUPS OF CHILDREN WITH KAWASAKI DISEASE A DATA DRIVEN CLUSTER ANALYSIS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. KIRAN Y. C.	Ms. TANVI R. Ms. VIBHA B. R.
532.	47S_BE_4291	LOW-COST PORTABLE OXYGEN CONCENTRATOR USING PRESSURE SWING ADSORPTION TECHNIQUE	B.E.	MECHANICAL ENGINEERING	Dr. SHREEKALA N.	Mr. SAAHIL S. PAWAR Mr. SHREYAS M. Mr. SWARUP SANTHOSH M.
533.	47S_BE_4946	GREEN DESALINATION: ADVANCED SUSTAINABLE WATER PRODUCTION THROUGH SOLAR AND WIND POWERED TECHNOLOGY	B.E.	MECHANICAL ENGINEERING	Dr. BHARAT VINJAMURI	Mr. BASAVANA GOWDA B. Y. Mr. SATISH P. Mr. SHASHANK S. D.

62. GOPALAN COLLEGE OF ENGINEERING AND MANAGEMENT, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
534.	47S_BE_0455	DESIGN, DEVELOP, AND TESTING A HYBRID QUADCOPTER-ROVER (DROVER) FOR RESCUE OPERATIONS, DISASTER MANAGEMENT, AND INDUSTRIAL SURVEILLANCE	B.E.	AERONAUTICAL ENGINEERING	Mr. RAJASHEKHARAREDDY H. G.	Mr. VADAKKERKARA RAMESH ROOPESH Ms. SHAESTHA TARANUM
535.	47S_BE_0519	DESIGN AND FABRICATION OF MODULAR ELECTRIC PROPULSION SYSTEM FOR UAV'S.	B.E.	AERONAUTICAL ENGINEERING	Prof. SUPRITH M.	Mr. SKANDA NAVADA Mr. RISHITH K Mr. S. KARAN Mr. THARUN SURYA D. J.
536.	47S_BE_2767	DESIGN AND DEVELOPMENT OF 3DOF TESTING MECHANISM FOR UAV	B.E.	AERONAUTICAL ENGINEERING	Mr. ADARSH KRISHNAMURTHY	Mr. GAGAN D. Ms. HEMASHREE D. S. Mr. SYED SULTHAN K. Mr. VARUN REDDY
537.	47S_BE_4217	DESIGN AND DEVELOPMENT OF ROBUST ICOSAHEDRON FRAME CAPABLE OF ABSORBING AND DISSIPATING COLLISION FORCES, MINIMISING THE RISK OF CRITICAL DAMAGE TO UNMANNED AERIAL SYSTEM	B.E.	AERONAUTICAL ENGINEERING	Dr. MANJUNATH S. V.	Mr. M. P. THASHWAN SARATHI Ms. AMRUTHA M. Ms. SAHANA GHORPADE Ms. VARSHINI A. R.
538.	47S_BE_3986	LIP READER USING DEEP LEARNING MODEL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. R. G. SAKTHIVELAN Dr. SWATHI Y.	Mr. DARSHAN R. Mr. VARUN REDDY B. Mr. T. SAI Mr. ARYA BISWAS

63. GOVERNMENT ENGINEERING COLLEGE, DODDAMANNUGUDDE, RAMANAGARA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
539.	47S_BE_0366	ROBOT WASTE SEGREGATOR USING COMPUTER VISION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHABEEN TAJ G. A.	Mr. RITESH R. Mr. HARSHITH N. J. Ms. PRAKRUTHI R. Mr. SACHIN C. S.

64. GOVERNMENT ENGINEERING COLLEGE, KARWAR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
540.	47S_BE_4198	MATRIX360: AN INTEGRATED APPROACH TOWARDS SMART-FUELING, MONITORING AND SECURITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. SHWETA NAIK	Mr. GANARAJ NAYAK Mr. BHARAT N. NAIKAR Mr. AKSHAY G. Ms. ROOPA NAGARAJ BHAJANTRI
541.	47S_BE_2931	SMART CURVED RAIL LUBRICATION SYSTEM	B.E.	MECHANICAL ENGINEERING	Dr. SRINIVASA MURTHY M. Dr. VASANTH KUMAR H. S.	Mr. AMRUT SURYAVANSHI Mr. AKSHAY ANANDU NAIK Mr. CHAITANYA SANDEEP RAIKAR Mr. PRAVEENA P NAIK

65. GOVERNMENT ENGINEERING COLLEGE, MOSALEHOSAHALLI, HASSAN

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
542.	47S_BE_4761	SMART ELECTRONIC VOTING SYSTEM BY USING FINGERPRINT RECOGNITION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. RUDRAPPA K. M.	Mr. K. H. M. CHANDRASHEKARA Mr. JAKEERHUSEN M. UKKADAGATRI Mr. DARSHAN G. D.
543.	47S_BE_4466	SMART ASSISTIVE SYSTEM FOR VISUALLY CHALLENGED PEOPLE WITH EMERGENCY ASSISTANCE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. GURUBASAVANNA M. G.	Mr. THARUNESHWARA PRASAD S. Mr. SOMESH C. Mr. GOWTHAM K. Mr. GURURAJ S. J.

66. GOVERNMENT ENGINEERING COLLEGE, TALAKAL, KOPPALA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
544.	47S_BE_1153	WASTE CONTAMINATION IN WATER USING IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VEERESH Mrs. TEJASWINI ESHWAR ACHAR	Ms. C. MADHUSHREE Mr. MUTTANNA B. RAMKOTI Ms. SANDHYA P. Ms. SUSHMA K.

67. GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
545.	47S_BE_1892	EXPERIMENTAL INVESTIGATION ON FERROCK BASED ECO-FRIENDLY CONCRETE	B.E.	CIVIL ENGINEERING	Dr. BASAPPA. B. KORI	Mr. SATYANARAYAN Mr. ARJUN Mr. AKASH Mr. PRANESH
546.	47S_BE_2147	TREATMENT OF INDUSTRIAL WASTE WATER AND ENERGY PRODUCTION USING PAPER BASED MICROBIAL FUEL CELL TECHNIQUE	B.E.	CIVIL ENGINEERING	Dr. RAJANI SARANADAGOUDA R	Mr. MD MUSTAFA KHAN Mr. MD UMAR SERIKAR Mr. MD AMAAN Mr. MOHD ABRAR UDDIN S.
547.	47S_BE_2946	EFFECT OF PARTIAL REPLACEMENT OF CEMENT WITH GGBS AND FULLY REPLACEMENT OF NATURAL AGGREGATE BY SINTERED FLY ASH LIGHT WEIGHT AGGREGATE IN CONCRETE.	B.E.	CIVIL ENGINEERING	Prof. SUNIL KUMAR BIRKUR	Ms. AMBIKA Ms. VIJAYLAXMI TOKARE Mr. ADITYA BIRADAR Mr. VISHNU PATIL
548.	47S_BE_5194	EXPERIMENTAL STUDY TO ANALYSE THE PHYSICOCHEMICAL PARAMETERS OF TREATED GREY WATER	B.E.	CIVIL ENGINEERING	Mr. PUNEETH KUMAR	Mr. OMKAR Mr. ASLAM PASHA Mr. ABHISHEK Mr. MAHAMAD AKBAR
549.	47S_BE_0591	AI INTEGRATED MENTAL HEALTH SUPPORT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SAVITRI WARAD	Mr. TUSHAR KORE Mr. PAVAN MAJGE Ms. VAISHNAVI J. Ms. VAISHNAVI S.
550.	47S_BE_1324	IMAGE - STEGANOGRAPHY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. REEBA RANI Prof. ANIL KULKARNI	Mr. MD JUNAID ALI Mr. SYED JUNAID ALI
551.	47S_BE_1770	DEPRESSION DETECTION USING AIML	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ANURADHA	Ms. VAISHNAVI BIRADAR Ms. SUVASINI Ms. PRIYANKA Ms. PRIYA
552.	47S_BE_1802	KEY GENERATION AND MANAGING SECRETS USING ALGORITHMS AND CLOUD	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ANURADHA ANNIGERI	Mr. BASWA PRASAD Ms. AKSHATA Mr. MANJAPPA Mr. NAGRAJ PARSHETTY
553.	47S_BE_1990	CAMPUS KEEPER	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. GURURAJ SURAMPALLI	Mr. AJIT PATIL Mr. BALAJI PATIL Mr. ABHISHEK Ms. SUSHMA PATIL
554.	47S_BE_2548	AMBULANCE SERVICE WITH ACCIDENT PRONE AREA DETECTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. BHAVANA BIDARKAR	Ms. SHAMBHAVI Ms. SUHANI MATHAPATHY Ms. SUJATA LAKKA Ms. SHEETAL CHAWRE
555.	47S_BE_5479	ANALYSIS OF 160KW PV POWER OUTPUT FORCASTING USING MACHINE LEARNING LANGUAGE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. DURGA PRASAD	Ms. VISHNAVI M. SEEGI Ms. SHIVANI Ms. VAISHNAVI Ms. NANDINI
556.	47S_BE_5112	FISHERMEN TRACKING AND COMMUNICATION USING WIRELESS WATER COMMUNICATION	B.E.	ELECTRONICS AND COMMUNICATIO N ENGINEERING	Prof. SONI MANKARI	Ms. BHOOMIKA Ms. N. RITU KAUR Ms. SAKSHI
557.	47S_MBA_0044	LEVERAGING TECHNOLOGY FOR ENHANCED ACADEMIC PERFORMANCE OF UG-STUDENTS WITH REFERENCE TO BIDAR AND KALABURAGI REGION	MBA	FINANCE MANAGEMENT AND BUSINESS ANALYTICS	Dr. JYOTI AINAPUR	Mr. SAGAR KARMALKAR Ms. PRIYANKA KARMALKAR Ms. KAMAKSHI Ms. ESHWARI
558.	47S_BE_2194	DERMATOLOGICAL CATEGORIZATION USING DEEP LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SANGAMESHWAR K. Prof. ANIL KULKARNI	Mr. VINAY GARJE Mr. SHAH NAVEED M. QUADRI

559.	47S_BE_5195	SIGN LANGUAGE RECOGNITION FOR ESPECIALLY ABLED PEOPLE	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. PRIYANKA M.	Ms. ARPITA MASUDI Ms. FATIMA TUZ ZOHRA Ms. ASNA FATIMA Ms. KIRANJEET KAUR

68. GURU NANAK FIRST GRADE COLLEGE, BIDAR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
560.	47S_MSC_0112	SYNTHESIS, SPECTRAL ANALYSIS, BIOLOGICAL EVALUATION AND MOLECULAR DOCKING STUDY OF NOVEL SCHIFF BASE AND ITS METAL COMPLEXES CONTAINING INDOLE NUCLEUS	M.Sc	CHEMISTRY	Dr. NAGESH GUNAVANTHRAO	Ms. NIKITA Mr. BASAVACHETAN Ms. NAGESHWARI Ms. NEEHA

69. H.K.B.K. COLLEGE OF ENGINEERING, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
561.	47S_BE_4390	STUDY ON THE BIOFILTRATION TECHNIQUE FOR GREYWATER TREATMENT	B.E.	CIVIL ENGINEERING	Prof. N. R. GOWRI Mr. SYED ABU SAYEED MOHAMMED	Mr. MOHAMMED ABDUL MUIZZ Mr. MOHAMMED QUISAR Mr. KHATEEB SM RAQEEB
562.	47S_BE_3052	SMART TRAFFIC CONTROL MANAGEMENT SYSTEM USING IOT AND MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. HUSNA TABASSUM Prof. AYESHA ANJUM	Mr. NAVEED AHAMED Mr. MOHAMMED AMEER M. Mr. MOHAMMED MURSHID ALAM Mr. MOHAMMED YASEEN SHARIFF
563.	47S_BE_3153	SAFETY MEASURES TO AUTO DETECT AND EXHAUSTING OF GAS LEAKAGE REMOTELY BY INVOKING AUTO VENTILATION USING IOT TECHNIQUES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHARADA K. A. Prof. MINAL KHANDARE	Mr. SYED ASHRAF TAAHA Mr. MIR SAEED MOMIN Mr. SYED AMEEN Mr. SYED MAAZ
564.	47S_BE_3786	SCULPTING SPINAL HARMONY: SMART CHAIR REVOLUTION WITH NEURAL PRECISION, FORCE SENSING, AND K-FOLD CROSS-VALIDATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. AYESHA ANJUM	Mr. FAIZAN AZIZ Mr. ABDUL HASEEB Mr. ARFATH AHMED Mr. HARIS FIRDOUS
565.	47S_BE_3461	AI DRIVEN ADAPTIVE VENTILATOR FOR ENHANCED RESPIRATION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. B. P. PRADEEP KUMAR	Mr. MOHAMMED MUDASSIR Mr. PALLAVI K. P. Mr. ROSHAN ZAMEER KHAN Ms. SOWMYA K. P.
566.	47S_BE_4136	HUMANITARIAN DEMINING UAV	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. ZAHIRA TABASSUM Dr.SUFIA BANU	Ms. MANFUSA AIMAN Ms. HAJIRA SIDDIQUA Mr. MOHAMMED ABUZAR SHARIEF Mr. MOHAN BHANDARI
567.	47S_BE_2904	COMMUNITYGREEN: REVOLUTIONIZING WASTE MANAGEMENT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SHREEKANTHA B. Prof. MADHUSUDHANA V.	Ms. SYEDA UMME KULSUM Mr. SYED RASHID AHMED Mr. SUJITH KUMAR N. Mr. TOUSIF SAQLAIN
568.	47S_BE_2936	VITAMIN DEFICIENCY DETECTION USING PHOTOS SAMPLE AND NEURAL NETWORK	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. SHARAVANA K. Dr. BALAJI VIJAYAN	Mr. RAGHAV SHARMA Ms. PRAKRUTHI R. Ms. RACHANA APPANNAVAR Mr. SWAPNIL MALLICK
569.	47S_BE_3271	AI-ENHANCED IMAGE DESCRIPTION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. S. TAMILARASAN Dr. SHARAVANA K.	Mr. ASHIK S. Mr. FAEEZ AHMED KHAN Mr. JEEVAN T. Mr. MOHAMMED MOIN AHMED
570.	47S_BE_5303	VISION BASED BOAT HEIGHT PREDICTION, CRASH AVOIDANCE WITH BRIDGE HEIGHT AND CONDITION MONITORING SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SNEHA K.	Mr. SYED NUMAN Ms. BI BI HAJIRA Mr. MOHAMMED FAHEEM ADIL Mr. MUHAMMED SHAKEEL

571.	47S_BE_2587	FINEST APPROACH TO SYNTHESIZE BIO-ETHANAL FROM BLUE-GREEN ALGAE (RIVER ALGAE- CHLORELLA SOROKINIANA) CULTIVATED THROUGH CLOSED PHOTOBIOREACTOR SYSTEM.	B.E.	MECHANICAL ENGINEERING	Dr. SALIM SHARIEFF Dr. YOUNUS PASHA	Mr. MUHAMMED TANZEEM A. Mr. MOHAMMED HUZAIFA Mr. SHRITHIK CHANDRA
572.	47S_BE_3775	DEVELOPMENT AND CHARACTERIZATION OF SMART HELMETS WITH COCONUT SHELL AND WASTE PLASTIC ENHANCED POLYMER MATRIX COMPOSITES	B.E.	MECHANICAL ENGINEERING	Prof. DINESH H. A.	Ms. GELASAM PRIYANKA Mr. GIRISH K. Mr. S. MOHAMED SHAMEER

70. H.K.E SOCIETY'S SIR M. VISVESVARAYA COLLEGE OF ENGINEERING, RAICHUR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
573.	47S_BE_2865	INDIAN SIGN LANGUAGE DETECTION SYSTEM USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SURESH PATEL	Mr. MOHAMMED SAHIL Mr. MOHAMMED PARVEZ Mr. MD SAHIL Mr. MOHAMMED GHOUSE PASHA
574.	47S_BE_3124	PLASTIC WASTE DETECTION USING IMAGE ANALYSIS AND PREPROCESSING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SUMANGALA ITAGI	Ms. SANJANA V. Ms. KHUSHI PATIL Ms. MASEERA SADAF
575.	47S_BE_4334	SKIN CANCER DETECTION REDEFINED: HARNESSING THE POWER OF IMAGE PROCESSING AND MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VEERESH B.	Ms. SAHANA JOSHI Ms. PRIYANKA Ms. M. SWATI Ms. PALLA MANASHWINI REDDY
576.	47S_BE_0279	VOICE CONTROLLED HUMANOID ROBOT WITH FACIAL EXPRESSIONS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. VISHWANATH P.	Mr. SOUDAGER MOHD KAIF Ms. SAHANA Ms. RAMYA Mr. MOHAMMAD SHOAIB

71. HIRASUGAR INSTIUTE OF TECHNOLOGY, BELAGAAVI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
577.	47S_BE_0238	REDUNDANCY ELIMINATION IN CLOUD NETWORK STORAGE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ARUNA ANIL DAPTARDAR	Mr. ABHISHEK BOLLARAPPU Mr. MANIKANTH DRAXE Mr. OMKAR PATIL Mr. PRAMOD PATIL
578.	47S_BE_0260	ASSESSING CAR DAMAGE WITH CNN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. S. V. MANJARAGI Prof. SUJATA MANE	Ms. SUDHA VIJAY FADI Ms. SAHANA KHEMANNAVAR Ms. SUREKHA MULIMANI Ms. VARSHA HUCHCHANNAVAR
579.	47S_BE_0327	YOUTUBE CLICKBAIT DETECTION USING ADVANCED MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. PRASANNA PATIL	Mr. SIDDHARTH P. KOKATANOOR Mr. SUSHILKUMAR PATIL Mr. SACHIN A. BADIGER Mr. SURAJ S. PATIL
580.	47S_BE_0454	MUSIC AND VIDEO RECOMMENDATION APP USING FACIAL EXPRESSION ANALYSIS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MAHESH HUDDAR Prof. S. I. MANE	Ms. ARATI CHOUDAJ Ms. PRACHI SUBHASH BABANNAVAR Ms. VAISHNAVI JADHAV Ms. PRANJALI RAMESH GOUDAR
581.	47S_BE_1314	VENOMX: EMPOWERING WINDOWS WITH A VOICE-POWERED AI ASSISTANT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MAHESH G. HUDDAR	Mr. ADITYA Y. KESARKAR Ms. AKHILA RENDALE Ms. SHRADDHA PATIL Mr. SIDDAPPA GODI
582.	47S_BE_2183	DESIGN AND DEVELOPMENT OF SELECTIVE BETEL LEAF PLUCKING ROBOT	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. AMIT U. NESHTI	Mr. SWAPNIL MALI Mr. ANANT DADANNAVAR Mr. MANIKANTH KADAKOL
583.	47S_BE_1017	NEUTRALIZING ENEMIES SOLDIER OR TERRORIST USING NANO DRONE ENABLED WITH AI	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SACHIN S PATIL	Mr. KARTIK PARSHURAM PUJAR Mr. ABHISHEK RAMESH SALOTAGI

						Mr. SAIPRASA DILIP LAKAMALE Mr. MAHNTESH SHANKAR POL
584.	47S_BE_1719	ADVANCED VEHICLE ANTI-THEFT AND SAFETY SYSTEM USING AI AND LI-FI TECHNOLOGY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. S. S. MALAJ	Mr. VISHAL HARAGAPURE Mr. AKASH BUSARI Mr. DUSHYANT PATIL Mr. ANIKET WAGAVADE
585.	47S_BE_3117	INTELLIGENT DATA ANALYTICS FRAMEWORK FOR PRECISION FARMING USING IOT AND MACHINE LEARNING ALGORITHMS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. D. M. KUMBHAR	Ms. AISHWARYA DUDAGANVI Mr. MD YUSUF HUKKERI Mr. PRAJWAL MAGADUM Mr. RAHUL KAPSE
586.	47S_BE_3863	AI-POWERED SPEECH BASED ROBOT FOR TRANSCRIPTION AND DIAGNOSTIC APPLICATIONS IN SMART HEALTHCARE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. B. P. KHOT Dr. S. S. ITTANNAVAR	Mr. SAGAR MARUTI TORAGALL Ms. ASHWINI BABU PATIL Ms. POORNIMA VIJAY SHINDHE Ms. SAMRUDHI SWAPNIL KULKARNI
587.	47S_BE_3779	SMART SEED SOWING AND FERTILIZER DISPENSER WITH AUTOMATIC ANTI-CLOG SYSTEM	B.E.	MECHANICAL ENGINEERING	Dr. K. M. AKKOLI	Mr. YOGESH DHANWADE Mr. PRAMOD AMMANAGI Mr. SANGAMESH SURAPAGOL
588.	47S_BE_3835	IOT BASED PIPE INSPECTION ROBOT	B.E.	MECHANICAL ENGINEERING	Dr. S. C. Kamate Prof. GIRISH ZULAPI	Mr. ABDULRAHIM B. KAZI Mr. RAHUL M. NANDESHWAR Mr. AKASH A. BADIGER

72. INDIAN ACADEMY DEGREE COLLEGE- AUTONOMOUS, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
589.	47S_MSC_0101	IN SILICO AND IN VITRO SCREENING OF GAMMA SECRETASE INHIBITING BBB PERMEABLE WINE METABOLITES NEUROPROTECTIVE POTENTIAL.	M.Sc	BIOCHEMISTRY	Dr. ERUMALLA VENKATA NAGARAJU Dr. ANANDA VARDHAN H.	Mr. AMRUTH R. Mr. THARUN M.
590.	47S_MSC_0154	ISOLATION OF PLANT-BASED ACETYLCHOLINESTERASE AND DEVELOPMENT OF ENZYME NANOPARTICLES-BASED BIOSENSOR FOR DETECTION OF ORGANOPHOSPHATE LEVELS IN POLLUTED LAKE WATERS	M.Sc	BIOCHEMISTRY	Dr. PUSHPA REDDY	Mr. AMLAN HOSSAIN Ms. ALIYA FATHIMA Ms. NOUSHEEN FATHIMA Mr. PAVAN N.
591.	47S_MSC_0063	NEUROPROTECTIVE EFFECTS OF THE EXTRACT OF MORINGA OLEIFERA LEAVES ON HIGH SUCROSE DIET-INDUCED DIABETIC DROSOPHILA MELANOGASTER	M.Sc	BIOTECHNOLOGY	Dr. VANITHA G. RAMESH	Ms. SNEHA MANNA Ms. LIKHITHA L. Mr. NITHIN KUMAR C. V.
592.	47S_MSC_0227	BIO-FEED PRODUCTION FROM URBAN FOOD WASTE	M.Sc	BIOTECHNOLOGY	Dr. PARAMESH H.	Mr. SOUVIK BHUNIA Ms. KEERTHANA J. M. Mr. INCHARA R.
593.	47S_MSC_0034	MICROBIAL SYNTHESIS OF METHYL ANTHRANILATE USING CORYNEBACTERIUM GLUTAMICUM AND EVALUATION OF ITS ANTIMICROBIAL EFFICACY.	M.Sc	MICROBIOLOGY	Dr. S. ANU KIRUTHIKA	Ms. MARIA PREETHI Mr. NIHAR G. Ms. HAJIRA FATHIMA
594.	47S_MSC_0098	MOLECULAR ANALYSIS AND EXTRACTION OF LANTIBIOTICS FROM DIVERSE ACTINOMYCETES SPECIES: A COMPARATIVE STUDY OF LANTIBIOTICS AND ANTIBIOTICS USED TO TREAT NOSOCOMIAL INFECTIONS CAUSED BY STAPHYLOCOCCUS AUREUS (MRSA)	M.Sc	MICROBIOLOGY	Prof. P. RAJARAJAN	Ms. HARSHITHA N. R. Ms. AISHWARYA GOPINARENDRA PATHAK Mr. GOWTHAM G. V.

595.	47S_MSC_0102	IN-SILICO AND IN- VITRO ANALYSIS FOR CRAFTING A COST-EFFECTIVE PROBIOTIC AND MUFA-ENRICHED PROTEIN SUPPLEMENT TARGETED AT ADULT DEMOGRAPHICS, AUGMENTED WITH LANTIBIOTICS AS A PRESERVATIVE.	M.Sc	MICROBIOLOGY	Prof. RAJARAJAN PETHANNAN	Mr. NEERAJ KRISHNA V. R. Ms. ABHILASA BHATTACHARYA Mr. PRUTHVI RAJ R. Mr. VARUN K. M.

73. J.S.S ACADEMY OF HIGHER EDUCATION AND RESEARCH, MYSURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
596.	47S_MSC_0169	SUSTAINABLE PRODUCTION OF HYDROGEN FROM RENEWABLE ENERGY IN IC ENGINES	M.Sc	ENVIRONMENTAL SCIENCE	Dr. ANIL KUMAR K. M. Dr.SHARANGOUDA J. PATIL	Mr. J. SHIVACHARAN NAIK

74. J.S.S COLLEGE OF ARTS, COMMERCE AND SCIENCE, MYSURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
597.	47S_MSC_0073	SYNTHESIS OF PROTEIN/PEPTIDE-BASED NANOCARRIER FOR DELIVERY OF IRON, A MICRONUTRIENT	M.Sc	BIOCHEMISTRY	Dr. LATHA B. V.	Ms. GANAVI C. V. Ms. AMULYA ANTAPUR Ms. BHAVANA M. S.

75. J.S.S. ACADEMY OF TECHNICAL EDUCATION, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
598.	47S_MCA_0084	SMART DRIP IRRIGATION SYSTEM USING IOT	M.C.A.	COMPUTER APPLICATIONS	Ms. KOMALA H. S.	Mr. KARTHIK H. Mr. DILEEP KUMAR K. R. Mr. NITHIN KUMAR S. Mr. HRISHIKESH K. JOGI
599.	47S_BE_3102	INDUSTRIAL PUMP ANOMALY DETECTION FOR PREDICTIVE MAINTENANCE USING MACHINE LEARNING TECHNIQUES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. SHANTHALA K. V.	Mr. MANTHAN PRASAD Mr. NISHANTH A. R. Mr. RAHUL R. Mr. RAHUL R.
600.	47S_BE_3618	AI BASED DECISION SUPPORT SYSTEM FOR PREDICTING DRONE HEALTH STATUS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MANJUNATH B. TALAWAR Dr. SHARANA BASAVANA GOWDA	Mr. RAHUL K. R. Mr. PRADEEP HIREMATH Mr. PRASHANTH Mr. M. C. SANTHOSH
601.	47S_BE_3832	AUGMENTED REALITY SYSTEM FOR AUTOMOTIVE ASSEMBLY PROCESSES AND MAINTENANCE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. VIKHYATH K. B.	Ms. ADYA PALLED Mr. AMRIT BARANWAL Ms. ANANYA P. Ms. ANUSHA R. MULGE
602.	47S_BE_4689	A SUMMARIZATION TOOL FOR YOUTUBE VIDEO TRANSCRIPT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. NAIDILA SADASHIV	Mr. ANEESHA KRISHNA MAIYA U Mr. AKASH REDDY V. Ms. GEETHA S.
603.	47S_BE_2716	AN OPTIMAL RENEWABLE ENERGY WIRELESS POWER MANAGEMENT SYSTEM FOR ELECTRIC VEHICLES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. P. M. SHIVAKUMARASWAMY Dr. MALLIKARJUNASWAMY S.	Mr. NIKHIL N. Mr. M. VIJAYRAGHAV Mr. NAGARAJ MOGER Mr. YUVARAJ N.
604.	47S_BE_3036	DESIGN AND IMPLEMENTATION OF IOT BASED WATER QUALITY AND LEAKAGE MONITORING SYSTEM USING ML	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. D. MAHESH KUMAR Dr. MALLIKARJUNASWAMY S.	Ms. KOUSHALYA M. BIRABBI Ms. SHARANYA U. G. Ms. SAHANA B. H.
605.	47S_BE_4039	BONE CANCER DETECTION FROM X-RAY USING DEEP LEARNING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. ARAVINDH H. S.	Ms. BHOOMIKA H. Ms. PAVANA G. Mr. ARUNA KIRANA KUMAR Mr. CHINMAYI A. P.
606.	47S_BE_5345	INTERNET OF THINGS BASED SERICULTURE FARM AUTOMATION USING MACHINE LEARNING ALGORITHM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SANGEETHA K. N. Dr. MALLIKARJUNASWAMY S.	Ms. PUNYA H. R. Ms. HARSHITHA Mr. SUNIL P. Mr. SRUJAN S. P.

607.	47S_BE_3244	SMART GUARD: REVOLUTIONISING INDUSTRIES WITH IOT BASED ENVIRONMENTAL OVERSIGHT AND POLLUTION MITIGATION	B.E.	ELECTRONICS AND INSTRUMENTATIO N ENGINEERING	Mrs. N. NAGARATHNA	Ms. AKSHATHA V. Ms. LEKHANA H. G. Ms. PUSHPAVALLI K.
608.	47S_BE_1895	AROGYA VICHARANA - PREDICTION OF DIABETES AND ITS COMPLICATIONS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. NAGAMANI N. PUROHIT	Mr. RAKSHITH R. Mr. HARI DARSHAN S. V. Mr. SHIVAM NATH Mr. SHREEHARSHA MAHABALESHWAR HEGDE
609.	47S_BE_1948	EMPOWERING RURAL DAIRY FARMING: AUTOMATION FOR INDIAN CATTLE HERDERS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. MAMATHA G.	Mr. ADITYA T. RATHOD Ms. NEHA SUBRAHMANYA HEGDE Ms. NITYA N. HEGDE Ms. SINCHANA DIVAKAR GOUDAR
610.	47S_BE_2672	EUDA - EMOTION UNDERSTANDING AND DEVELOPMENT AI	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. SUKRUTHA C. BASAPPA	Mr. AMAN KUMAR Ms. B. N. BHAVANA Ms. J. JYOTHSNA Ms. NAMRATHA PRAKASH
611.	47S_BE_4339	VIDTALK: EMPOWERING EFFORTLESS VIDEO ENGAGEMENT AND INFORMATION DISCOVERY	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. SAHANA V.	Mr. AL AQMAR DAMANA Ms. G. SANJANA REDDY Mr. KUMAR MAYANK Mr. NILESH TIWARI
612.	47S_BE_3921	BATTERY THERMAL MANAGEMENT SYSTEM IN ELECTRIC TWO-WHEELER	B.E.	MECHANICAL ENGINEERING	Dr. B. G. PRASHANTH	Mr. ADARSH R. Mr. NIKHIL GOWDA U. R. Mr. MANJUNATH B. Mr. SANJU S.
613.	47S_BE_4496	AGRIBOT: IOT ENABLED MULTIFUNCTIONAL MACHINE	B.E.	MECHANICAL ENGINEERING	Dr. GOWREESH SUBRAMANYA S. Dr. J. S. SRIKANTMURTH Y	Ms. SURABHI R. Ms. GLORIA ELSA SAJAN
614.	47S_BE_4814	AUTOMATED OIL CONTROL SYSTEM IN OIL FURNACE	B.E.	MECHANICAL ENGINEERING	Dr. VENKATESHA B. N. Dr. SANTOSH KUMAR B. M.	Mr. NAVEENKUMAR S. GUMASTE Mr. ABHILASH H. B. Mr. PRAJWAL BHARADHWAJ H. V. Mr. S. PANIRAJAN

76. J.S.S. SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
615.	47S_MSC_0097	LEAD-FREE PEROVSKITE/POLYMER NANOCOMPOSITE AS TRIBOELECTRIC NANOGENERATOR	M.Sc	CHEMISTRY	Dr. B. S. MADHUKAR	Mr. KUSHAL M. GOWDA Ms. MANJUSHREE N. Ms. SIMRAN SAINAND REVANKAR
616.	47S_BE_4000	STUDY ON PROPERTIES OF CONCRETE FROM SUSTAINED ELEVATED TEMPERATURE USING DIFFERENT TYPES OF CONCRETE	B.E.	CIVIL ENGINEERING	MRS KAVYA.K.M	RUCHITHA C SPANDANA V MADHUSHRI G PURUSHOTTAMA V
617.	47S_BE_5319	STUDIES ON ZERO RUNOFF ZONE THROUGH ARTIFICIAL RECHARGE TECHNIQUES IN THE JSS TECHNICAL INSTITUTIONS CAMPUS	B.E.	CIVIL ENGINEERING	PROF. PRASAD PUJAR	DARSHAN C SRUJAN H PREETHAM M P HARSHITH J
618.	47S_MSC_0036	SECURITY CONVERSATION USING AI BOT FOR PHYSICALLY CHALLENGED PEOPLE	M.Sc	COMPUTER SCIENCE AND TECHNOLOGY	Dr. ANUSUYA M A Prof. SHRUTHI B. M.	Mr. ESHWAR URS S. Mr. SWAGATH D. A.
619.	47S_BE_2713	WATER PURIFICATION USING HIGH VOLTAGE PLASMA GENERATION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. SOWMYASHREE N.	Mr. CHETHAN D. Mr. VARSHAN C. R. Ms. SINDHU K. M. Ms. PRIYANKA M.
620.	47S_BE_1559	SELF STABILIZING SPOON AND HAND GESTURE BASED COMMUNICATION SYSTEM FOR PARKINSONS DISEASE PATIENTS.	B.E.	ELECTRONICS AND INSTRUMENTATIO N ENGINEERING	Dr. NANDA S.	Ms. VINDYA K. Ms. VARUNI G. Ms. TEJASWINI N.
621.	47S_BE_4594	TINY NOURISH: PRECISION AUTOMATED FOOD PACKING SYSTEM FOR PREMATURE INFANTS	B.E.	ELECTRONICS AND INSTRUMENTATIO N ENGINEERING	Mrs. ANUSHA M. U. Dr. UMA RANI K.	Ms. BHAVANI R. Ms. LIKHITHA K. Mr. MOHAMMED FAWAZ

622.	47S_BE_4739	FALL DETECTION, GAIT AND TREMOR ANALYSIS USING INERTIAL MEASURMENT UNIT	B.E.	ELECTRONICS AND INSTRUMENTATIO N ENGINEERING	Dr. K. UMA RANI Mrs. ANUSHA M. U.	Ms. SINCHANA M. R. Mr. T. KOTRESH Mr. ROHIT G. PAWAR
623.	47S_MTech_0032	DEVELOPMENT AND CHARACTERIZATION OF SUSTAINABLE FOOD PACKAGING FILM BASED ON POLYVINYL ALCHOHOL / K-CARRAGEENAN / KODO MILLET (PASPALUM SCORBICULATUM) HUSK	M.Tech	POLYMER SCIENCE AND TECHNOLOGY	Dr. A. B. HEMAVATHI	Ms. GOURI PATIL
624.	47S_MTech_0078	STUDIES ON ENVIRONMENTALLY FRIENDLY NORMAL & HIGH STRENGTH CONCRETES BY USING FLY ASH & GGBFS THROUGH MACRO & MICRO CHARACTERIZATION	M.Tech	STRUCTURAL ENGINEERING	Dr. M. C. NATARAJA	Mr. NAVEEN HEGDE

77. JAIN (DEEMED - TO - BE UNIVERSITY), SCHOOL OF SCIENCES, J.C ROAD, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
625.	47S_MSC_0065	DEVELOPMENT OF NANOADSORBENTS FROM AGRICULUTRAL WASTE AND THIER APPLICATION IN MITIGATION OF ORGANIC, INORGANIC POLLUTANTS FROM INDUSTRIAL EFFLUENTS	M.Sc	BIOCHEMISTRY	Dr. SOUMYA V. MENON	Mr. SUMANTH S. VASUDHA K. Ms. CHAQSHU TANDIN BIDHA Mr. ASHOK A.
626.	47S_MSC_0020	ISOLATION OF OIL FROM BRASSICA OLERACEA AND FORMULATION OF OIL PELLETS AS A DIETARY SUPPLEMENT FOR VEGANS	M.Sc	MICROBIOLOGY	Prof. G. PADMA PRIYA Prof. G. SUBBULAKSHMI	Ms. B. PRAGATHI Ms. SHERIN SWATHI JULIET CHRISTOPHER Ms. B. MALINI BABU
627.	47S_MSC_0248	BIOACTIVE GLASSES FOR BONE TISSUE ENGINEERING	M.Sc	PHYSICS	Dr. ASHA RAJIV Mr. CHETHAN M.	Mr. KAUSHIK H. KAMAT Mr. GAGAN K. T. Mr. PASUPULA MANOSH REDDY Mr. VISHWANATHA SHARMA M. S.

78. JAIN COLLEGE OF ENGINEERING AND RESEARCH, BELAGAAVI

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
628.	47S_BE_3882	TREATMENT OF WATER BY USING REACTOR OF NATURAL INGREDIENTS WITH APPLICATION OF IOT BASED SYSTEM	B.E.	CIVIL ENGINEERING	Prof. RAHUL R. BANNUR	Ms. SPURTI SANJAY RAJU Mr. MUSTAFID HONYAL Ms. ANKITA KANBARKAR Ms. BHAGYA J. DIGAMBARIMATH
629.	47S_BE_2948	DESIGN AND DEVELOPMENT OF A TOOL TO DETECT FAKE PROFILE ON FACEBOOK USING MACHINE LEARNING TECHNIQUES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SAGARGOUDA S. PATIL	Mr. DARSHAN AKKATANGERHAL Ms. AISHWARYA DADAMODE Ms. DHANASHRI TAKKEKAR Mr. AMOGH KALMANGI
630.	47S_BE_4322	RICE GRAIN DETECTION SYSTEM USING ML	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ARATI PATIL	Ms. SANGEETHA ARAVIND BIRADAR Mr. OMKAR J. PATIL Mr. PRAVEEN V. BHANGI Ms. RAKSHITA K. MATHAD

79. JAIN COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
631.	47S_BE_2096	EXPERIMENTAL INVESTIGATION ON EFFECTIVENESS OF NANO PARTICLES IN SOLAR POWERED ELECTRO-COAGULATION TECHNOLOGY FOR THE TREATMENT OF SELECTED INDUSTRIAL EFFLUENTS SITUATED AROUND DHARWAD DISTRICT	B.E.	CIVIL ENGINEERING	PROF.SUNIL UMACHAGI NOT APPLICABLE	ANJANI ACHYUT JOSHI CHETAK BALAKRISHNA SHINGE PRERANA RAJU SONONE TEJASHWINI SURESH WADDAVET

632.	47S_BE_2731	DESIGN AND DEVELOPMENT OF RAPID SAND FILTER FOR THE CHARACTERIZATION AND TREATMENT OF RIVER KRISHNA	B.E.	CIVIL ENGINEERING	Prof. SHRUTI KUBYAL	Mr. ASHOK D. CHALAWADI Ms. DEEPA MAHANTESH BHAJANTRI Mr. AMANALI M. NADAF Ms. ANUSHA SHETTAR
633.	47S_BE_2103	AN OPTIMIZATION-BASED APPROACH FOR URBAN LOW EMISSION ZONES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. HARSHITHA C. K.	Ms. SHIVANI VINAY BELLAD Ms. SAHANA R. GHARABUDE Mr. SATHVIK C. SHETTY Mr. SHASHANK HIREMATH
634.	47S_BE_2114	A VOICE BACSED IMAGE CAPTION GENERATOR USING DEEP LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. TRUPTI THITE Mr. VENKATESH M E	Ms. VAJRESHWARI Ms. POOJA NAVALAGUNDA Ms. RENUKA Ms. TEJASVINI TEJAPPANAVAR
635.	47S_BE_2247	VIDYASPARSH: LEARNING MODEL FOR BLINDS USING IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. RAKESH ARALIKATTI	Ms. PREETI JIGAJINNI Ms. AASHITA S. BENKI Ms. SANNIDHI G. SHETTI Ms. SAHANA V. ANGADI
636.	47S_BE_2517	CARDIAC PRESSURE TRACKER AN INNOVATIVE DEVICE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. AMRUTA NAVEEN	Ms. JYOTHI KANNAPPALAVAR Ms. RUTIKA KAMBLE Mr. SHARAN SHETTY Ms. SNEHA DASARADDI
637.	47S_BE_3214	SMART BRAILLE LEARNING ASSISTANT FOR BLIND CHILDREN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. TRUPTI THITE	Ms. NANDITA MAHESH AMMAKKANAVAR Mr. SUNIL R. MALLADAD Mr. VIRUPAKSHAGOUGA B. PATIL Mr. SHREYAS R. BELAMKAR
638.	47S_BE_3393	INTEGRATED SMART ROAD SAFETY SYSTEM WITH ADVANCED HUMP DETECTION AND WEATHER DATA INTEGRATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. PADMA J. DANDIN	Ms. NIKHITA CHANDRASHEKHAR KUPPELUR Ms. DHARTI VIVEKANAND PAWAR Mr. AKASH ASHOK KURDEKAR MAHAMMEDSALEEM F. AGASAR
639.	47S_BE_3538	IOT EMBEDDED IGPS COLLUS NAVIGATOR	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SINDHU N. P. Prof. TRUPTI THITE	Ms. ANJALI UGARGOL Ms. MADHUMITA S. ROTTIMATH Ms. LAKSHMI V. SUNAGAR Ms. SWATI S. NAIK
640.	47S_BE_4681	LICENSE PLATE RECOGNITION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SINDHU N. P. Prof. TRUPTI THITE	Mr. PRAJWAL M. BADIGER Mr. RANJAN S. VERNEKAR Ms. PRANUSHA HEGDE Ms. PREETHI SHREE C.
641.	47S_BE_3376	BORDER SECURITY USING ESP32	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. RAVI BAGADE Prof. PRASANNA PATTANASHETTY	Mr. HARSHAD P. BULBULE Mr. AKASH S. DESAI Mr. AJIT GANDOLE Mr. RAJESAB M. BAVAKHANAVAR
642.	47S_BE_3717	GESTURE CONTROLLED ROBOTIC ARM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. MAHESH HIREMATH	Ms. SPOORTI S. SHOLAPURI Ms. RASHMI HURAKADLI Ms. SAHANA BALLARY
643.	47S_BE_3416	DETERMINATION OF FRACTURE STRENGTH OF SPUR AND HELICAL GEAR USING STRAIN GAUGE TECHNIQUE	B.E.	MECHANICAL ENGINEERING	Prof. SATYANARAYANA A.	Mr. PAVANKUMAR SURENDRA KULKARNI Mr. UTTARKAR GNANESHWAR RAO Mr. HARSHAVARDHAN YADLAPUR
644.	47S_BE_3565	SLAM BASED ROS OPERATED AUTONOMOUS MOBILE ROBOT FOR INDOOR APPLICATION	B.E.	MECHANICAL ENGINEERING	Prof. PRABHUDEV MALLAPUR	Mr. HRISHIKESH P. PATIL Mr. NIHAL G. AMARAYYANMATH Mr. UPADHYAYA PRASANNA

80. JAIN COLLEGE OF ENGINEERING, BELAGAAVI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)

645.	47S_BE_3104	MANUFACTURING OF BRICKS USING PLASTIC WASTE AND FOUNDRY SAND	B.E.	CIVIL ENGINEERING	Dr. SANJEEV SANGAMI	Ms. VAISHALI SHARADBHAI MUDHOLKAR Mr. SRIHARI PARSHURAM PATIL Mr. SUDARSHAN BHARAMU BIRADAR PATIL Mr. SATISH APPASAB BYALI
646.	47S_BE_3622	A STUDY ON ENHANCING OF CLAYEY SOIL STABILITY USING COCONUT COIR AND PLASTIC WASTE	B.E.	CIVIL ENGINEERING	Prof. VARSHA GOKAK	Mr. POOJA SANGAPPA BANI Ms. AKSHATA ASHOK MALLODI Ms. LAKSHMI N NALATWAD Mr. SANJU S PATTANASHETTI
647.	47S_BE_4324	SUSTAINABLE PAVER BLOCKS: INCORPORATING DEMOLISHED CONCRETE WASTE AND PLASTIC WASTE FOR ENHANCED PROPERTIES AND ENVIRONMENTAL BENEFITS	B.E.	CIVIL ENGINEERING	MVARSHA GOKAK	Mr. OMKAR T HANCHINMANI Mr. ANIL KUMAR S. PATIL Mr. ANIL Y DEVALATTI Mr. SAGAR L TALAWAR
648.	47S_BE_4416	MANUFACTURING OF BRICKS USING QUARRY DUST WITH THERMOCOL BEADS	B.E.	CIVIL ENGINEERING	PROF. PRIYANKA SHINDE PROF. NARESH PATIL	Mr. SANTOSH R CHAVALAGI Mr. ANIKET S PATIL Ms. ANKITA P DEVKAR Mr. RUTIK P TUPPAT
649.	47S_MCA_0064	MOBILITY GUARD PLUS: ADVANCED IOT SMART WHEELCHAIR WITH REMOTE MONITORING AND FALL DETECTION	M.C.A.	COMPUTER APPLICATIONS	Dr. PRAVEEN BANASODE Dr. POORNA CHANDRA S.	Mr. SHANKAR M. PUJARI Ms. LALITA R. NAIK Ms. LAXMI K. BHANDARI Mr. PRAVEEN MANDAGODLI
650.	47S_MCA_0067	TRANSIT FLOW IOT-DRIVEN SMART TRANSPORTATION SYSTEM FOR ENHANCED MOBILITY AND TRAFFIC MANAGEMENT	M.C.A.	COMPUTER APPLICATIONS	Dr. PRAVEEN BANASODE Prof. VINAYAK PATKI	Ms. KRUTHIKA L. PUROHIT Ms. SHWETA PATIL Ms. SHRILAXMI N. MELIKATTI Ms. VRINDA A. BHUTE
651.	47S_MCA_0069	SMART NIGHT WATCH: INTELLIGENT NIGHT PATROL ROBOT WITH REAL - TIME MOBILE ALERTS AND STREAMING SURVEILLANCE	M.C.A.	COMPUTER APPLICATIONS	Prof. MILIND RAO PAWAR Dr. PRAVEEN BANASODE	Ms. PREETI KOOT Ms. SHRADDHA GANI Ms. SHREYA BADANIKAI Ms. SUDHA BILAKI
652.	47S_MCA_0079	AQUASENCE: REAL-TIME WATER QUALITY MONITORING SYSTEM WITH ALERT NOTIFICATION	M.C.A.	COMPUTER APPLICATIONS	Prof. SONAL N. PATANGE Dr. PRAVEEN BANSODE	Ms. AISHWARYA N. HEBBALLI Mr. ABHINANDAN R. NAIK Mr. ADARSH B. NASHI Mr. RAHULSING V. RAJPUT
653.	47S_MCA_0094	IHOMEGUARD: SMART HOME AUTOMATION FOR MODERN LIVING	M.C.A.	COMPUTER APPLICATIONS	Dr. PRAVEEN BANASODE Prof. VINAYAK PATKI	Ms. SAMRUDDHI SANTOSH GOULI Ms. DIVYA D. RANE Ms. SHINY A. MASCARENHAS Ms. MONALISA M. MARX
654.	47S_BE_2199	OSTEOARTHRITIS CHECKUP SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SUDHIR WAKUDE	Mr. MOUNESH VEERABHADRA BADIGER Ms. VAISHNAVI SUNIL PUNNURI Ms. PALLAVI B. BANAGAR Mr. PRATHAMESH MAHESH REDEKAR
655.	47S_BE_2298	IOT BASED SMART PROJECTOR	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SIDDHARTH BHATKANDE	Ms. KIRTHI SHANKAR KOTRASHETTI Mr. AKSHAY KANBUR Mr. AMAN HOSAKOTI Mr. PRATEEK KOMAR
656.	47S_BE_2340	JANASEVAKA (RAILWAY TRACK CRACK DETECTION SYSTEM)	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. LAXMI BRUNGI	Mr. RAMANAGOUDA CHANDRAGOUDA PATIL Ms. CHANDRAJYOTI KHOT Mr. PRAJWAL KALASA Ms. KIRAN BASANAIK
657.	47S_BE_2172	VEHICLE IMPACT NOTIFICATION AND EMERGENCY CALLING SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SHIVANAND CHANNI	Mr. DARSHAN KARAV Mr. INDRAJEET DHARANGUTTE Ms. PRAGATI MAGADUM Mr. ABHIJEET PATANKAR
658.	47S_BE_2732	AI BASED VIRTUAL MOUSE USING PYTHON	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SHIVANAND B. HUGAR	Mr. KIRAN B. KARADI Mr. KIRAN M. PATIL Mr. AKSHAY K. MAGADUM Ms. DEVIKA A. KOCHERI
659.	47S_BE_2822	SMART FACE RECOGNITION ATTENDANCE SYSTEM USING RASPBERRY PI MODULE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SHIVANAND CHANNI Prof. SHAHAK PATIL	Mr. RAKESH KUDACHI Mr. VINEETKUMAR GAWALI Ms. AKSHATA PADMANNAVAR Ms. SINDHU PADANAD

660.	47S_BE_5126	AI POWERED SUSTAINABLE AGRICULTURE MANAGEMENT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. PRAVEEN CHITTI Dr. SALMA S. SHAHAPUR	Mr. SOMESH KAMBLE Ms. SHIFA NASARDI Ms. RAKSHITA AMBEWADKAR Ms. SONAL BIRJE
661.	47S_BE_2005	DESIGN AND DEVELOPMENT OF REUSEABLE ECO-BAGS USING RICE STRAW	B.E.	MECHANICAL ENGINEERING	Prof. UTTAM KORUCHE	Mr. SHRINIVAS SHINDE Mr. ROHIT HAWAL

81. JAIN DEEMED TO BE UNIVERSITY FACULTY OF ENGINEERING AND TECHNOLOGY, RAMANAGARA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
662.	47S_MTech_0060	DEVELOPMENT OF SPIRULINA FORTIFIED ORANGE JUICE.	M.Tech	FOOD TECHNOLOGY	Dr. SUNDUS NIDA	Mr. AMIRUL ALAM CHOUDHURY
663.	47S_BE_4236	AGV WITH ARTICULATED ROBOTIC ARM	B.E.	MECHANICAL ENGINEERING	Dr. ASHUTOSH PATTANAIK	Mr. TAMMANA CHARAN GURU DAYAL Mr. AASHISH KUMAR MAHATO Mr. DIBASH BHANDARI Ms. VAMSI PEESAPATI
664.	47S_BE_4327	FOLDABLE SOLAR TRACKING AND CLEANING SYSTEM	B.E.	MECHANICAL ENGINEERING	Dr. ARUNKUMAR D. T.	Mr. KAPIL GYAWALI Mr. SHIKHAR SHARMA Mr. BIRJESH CHAUDHARY Mr. ARPAN SINGA RAJBANSHI

82. JAIN INSTITUTE OF TECHNOLOGY, DAVANAGERE

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
665.	47S_BE_3972	INVESTIGATION OF STRENGTH PARAMETER OF LIGHT WEIGHT CONCRETE BY REPLACING COARSE AGGREGATE WITH SINTERED FLY ASH AGGREGATES	B.E.	CIVIL ENGINEERING	Mr. RAGHU G. M.	Mr. RAGHU K. J. Mr. RAKESH R. Ms. SAHANA C. Ms. SINDHU T. N.
666.	47S_BE_4562	DEVELOPMENT OF INTERLOCKING BRICKS	B.E.	CIVIL ENGINEERING	Mr. RAMESHA M.	Mr. GANESH SHIVAJI SHELAKE Mr. BALAJI V. Mr. C. DORE BANAJAR Mr. KRISHANKUMAR S. RITTI
667.	47S_BE_4659	ANALYSIS OF GROUND WATER QUALITY IN AND AROUND SOLID WASTE DUMPING AREA	B.E.	CIVIL ENGINEERING	Dr. RAHUL PATIL Dr. RAMESH R. S.	Mr. R. SANDEEP Ms. P. SUMALATHA RANI Ms. PRATHIBA P. V. Mr. RAJU N.
668.	47S_BE_5257	RECYCLED BASSANITE FOR ENHANCING THE STABILITY OF POOR SUBGRADES CLAY SOIL IN ROAD CONSTRUCTION PROJECT	B.E.	CIVIL ENGINEERING	Mr. DARSHAN K. R.	Mr. SUHAS K. P. Mr. VAGEESH H. S. Ms. RAKSHITHA P. Ms. TEJASWINI T. KATTIMANI
669.	47S_BE_0339	AUTISM SUPERPOWER: AR AND AI TOOLS FOR EMPOWERING AUTISTIC INDIVIDUALS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PRASHANTHA G. R.	Ms. KANURU SRI HAMSA SUDHA Ms. RANISAHANA T. Ms. SAKSHI S. J. Mr. ARADHYA P. B.
670.	47S_BE_0407	EEG ANALYTICAL MODEL TO ESTIMATE LEARNER'S UNDERSTANDING LEVEL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MOUNESHACHARI S. Mrs. MANJULA P.	Ms. RIDA R. MUJAHID Ms. POOJA G. P. Mr. HALASWAMY G. Mr. MOHAMED NADEEM
671.	47S_BE_1247	ESTIMATION OF NITROGEN CONTENT IN SOIL USING DIGITAL IMAGE PROCESSING TECHNIQUES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. RANGASWAMY H.	Ms. BHUVANASHREE M. S. Ms. AMRUTHA N. RAJAWATH Ms. DIVYA N. B. Ms. NISARGA K. V.
672.	47S_BE_2099	CONTROLLING MOUSE POINTER USING EYE AND FACE GESTURE FOR QUADRIPLEGIC PATIENT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. SHAFIULLA SHARIFF Mr. SAMEER B.	Mr. SADIQ AHMED A. A. Ms. KRUTHI M. S. Ms. RAMYA S. KURDEKAR Mr. PRATIK P. M.
673.	47S_BE_2418	EVALUATION OF SUSTAINABLE MACHINE LEARNING MODELS AGAINST DATA POISONING ATTACK	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. G. C. DIVYA Mr. RANGASWAMY H.	Mr. RAVI KIRAN M. T. Mr. SAGAR M. SANNAKKI Mr. KOUSHIK P. M.
674.	47S_BE_1294	OBJECT DETECTION FOR BLIND PERSON USING YOLO ALGORITHM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. RAVIKUMAR K. I.	Mr. SAGAR M. G. Ms. VARSHA V. Ms. HALLI SANGEETHA Mr. SHIVALINGA SWAMY S. V.

675.	47S_BE_1355	VOICE ASSISTANT SIGN LANGUAGE DETECTION USING MACHINE LEARNING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. DEEPTHI G. B.	Mr. MALLIKARJUN M. Ms. PRATHIBHA M. H. Ms. SAHANA T. Mr. VARUN K.
676.	47S_BE_3580	DESIGN AND DEVELOPMENT OF JACKFRUIT OPENER	B.E.	MECHANICAL ENGINEERING	Dr. RAMESH R. S. Mr. MANJUNATHA A. R.	Mr. AMITH S. H. Ms. ANUSHA R. Mr. GIRISH K. S. Mr. MANUSWAMY J. H.

83. JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIVAMOGGA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
677.	47S_BE_0765	EXPERIMENTAL STUDY ON CLASS-1 CLAY BRICKS MANUFACTURING BY USING VARIOUS INDUSTRIAL & AGRO WASTES	B.E.	CIVIL ENGINEERING	Dr. NEERAJ S. N.	Mr. SRINIDHI SHASTRY M. R. Mr. RAKESH H. N. Mr. NITHIN V.
678.	47S_BE_1473	LAKE CLEANING SYSTEM USING IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. AYESHA SIDDIQA	Ms. SUPRITHA PATIL M. L. Mr. MAHAMMED SAHEEL Mr. ARJUN C. M.
679.	47S_BE_5205	INTELLIGENT SYSTEM TO SECURE INFORMATION BASED ON INNOVATIVE GAMES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. JALESH KUMAR	Ms. POOJA B. Ms. BHAVANA R. M. Ms. DHATHRI KRISHNA V. Ms. NISARGA S.
680.	47S_BE_4817	IOT BASED CONTROL AND PROTECTION OF BOREWELL MOTOR	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. THEJASWI A. H.	Ms. DRUVA S. DALAWAI Mr. SANTOSH U. Ms. AMBIKA K. Ms. PALLAVI R.
681.	47S_BE_2612	BRAIN CONTROLED ROBOTIC CAR USING MIND WAVE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. SHWETHA B.	Mr. YASHAVANTA V. HEDIYAL Mr. AEKANTH M. P. Ms. KOMALA N. Ms. SUMANTHA V.
682.	47S_BE_3548	DATA TRANSMISSION USING LI-FI	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. AJAY BETUR P.	Mr. CHETHAN S. P. Mr. ABHISHEK K. Mr. ABHISHEKA M. Mr. BHARATH S. R.
683.	47S_BE_3771	FAKE CURRENCY DETECTION AND RECOGNITION SYSTEM FOR VISUALLY CHALLENGED PEOPLE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. ROOPA B. S.	Ms. SPOORTHI R. Ms. SHARANYA H. V. Ms. SHREYA H. C. Ms. SINDHU A. P.
684.	47S_BE_3852	ADAPTIVE VISUAL CRYPTOGRAPHY SCHEME DESIGN BASED ON QR CODES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. S. PRAMOD KUMAR	Ms. BHOOMIKA S. V. Ms. BHAVITHA A. Ms. BHUVANASHREE H. S. Ms. DEEPIKA C.
685.	47S_BE_4675	COMPUTATIONAL INTELLIGENCE BASED SMART NEST FOR INFANTS	B.E.	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	Mr. MADHUSUDHAN G.	Mr. SRINIVAS S. Mr. PRANAVA SWAROOPA K. S. Ms. SNEHA M. S. Ms. SHAMITA KAMAT
686.	47S_BE_2211	IOT-AI BASED SOLUTION FOR CHILD RESCUE IN BOREWELL THROUGH WIRELESS MONITORING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. SAYED AFTAB AHAMED Dr. JYOTHI K.	Mr. SRINIVAS P. BODKE Mr. NIRANJANMURTHI H. R. Mr. MOHAMMED SAQIB NIHAL Ms. CHANDANA H. R.
687.	47S_BE_5457	CLASSIFICATION OF STUDENT COMMENTS FOR ENHANCING KNOWLEDGE DELIVERY SYSTEM USING DEEP LEARNING FRAMEWORK	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. CHETHAN G. S.	Mr. SANKETH KASHYAP K. R. Mr. RAKSHITH K. M. Mr. SAAKETH S. HEGDE
688.	47S_MBA_0061	BATTERY OPERATED SEED SOWING MACHINE	MBA	MBA	Dr. VIKRAMA D. K. Dr. SANTHOSHA	Ms. SANJANA R. Ms. RAKSHA M. Mr. ADITYA N. M.
689.	47S_BE_4447	DESIGN AND DEVELOPMENT OF ULTRASONIC VIBRATING GLOVE FOR BLIND	B.E.	MECHANICAL ENGINEERING	Dr. PRADEEP N. B. Prof. PARAMESHWARA S.	Ms. SHREESHA K. R. Mr. BRIJESH G. Mr. SUMUKH K. S. Mr. SUMAN D.

84. JYOTHY INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
690.	47S_BE_3896	A MULTILINGUAL MODEL FOR TEXT GENERATION OF VISUALS	B.E.	ARTIFICIAL INTELLIGENCE	PROF.RAMYA B. N. Dr. MADHU B. R.	Ms. GREESHMA P. M. Ms. BANUSHREE T.

				AND MACHINE LEARNING		Ms. PALLAVI K. G. Ms. PRANITHA T. MANUR
691.	47S_BE_4142	DATA WIZARD	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. MADHU B. R. Mrs. RAMYA B. N.	Ms. NEETHU C. V. Ms. KRUTHIKA K. S. Ms. RAKSHA Ms. SHARANYA NARESH
692.	47S_BE_4526	RETINAL IMAGE ANALYSIS FOR CARDIOVASCULAR RISK PREDICTION: A DEEP LEARNING PERSPECTIVE	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. MANJUNATH H. R. Dr. MADHU B. R.	Ms. POOJA S. Mr. RATHAN GOWDA G. P. Mr. PRASANNA KUMAR K. Ms. M. SHALINI
693.	47S_BE_4576	PRICE PROBE: YOUR ULTIMATE COMPANION FOR UNRAVELING THE BEST DEALS ACROSS E-COMMERCE PLATFORMS USING MACHINE LEARNING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Mrs. ARCHANA V. R. Dr. MADHU B. R.	Ms. VAIBHAVI B. RAJ Ms. A. S. SUSHMITHA URS Mr. ABHISHEK KUMAR PANDEY Ms. JAGRUTHI G.
694.	47S_BE_5109	PNEUMONIA DETECTION IN CHEST X-RAYS USING A MODEL: VIT	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Mrs. SOUMYA K. N.	Mr. KOUSHIK Mr. MADHU H. S. Ms. PAVITHRA KUMAR D. Mr. SRISHAN S.
695.	47S_BE_2607	DESIGN AND DEVELOPMENT OF ALKALI ACTIVATED HYBRID SUSTAINABLE GEOPOLYMERIC BLOCKS	B.E.	CIVIL ENGINEERING	Dr. SREEKESHAVA K. S. Prof. RAGHU PRASAD B. K.	Ms. DEEPA DHARSHANI T. Ms. CHAITANYA B. Mr. DARSHAN G. Mr. SUMANTH V.
696.	47S_BE_0237	RESUME ANALYSER FOR APPLICANTS AND RECRUITERS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ANNIE SUJITH	Ms. NEEHARIKA G. Ms. AISIRI P. Ms. CHANDAN S. Mr. DARSHAN V. J.
697.	47S_BE_1072	BREED CLASSIFICATION OF DOGS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SWATHI K.	Mr. VARUN KUMAR D. Ms. VARSHA S. Mr. VISHNU PRASAD PAI Mr. SAI GOWRAV P.
698.	47S_BE_2545	URBAN ALERT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. BASAVESH D.	Mr. SHARATH KUMAR U. S. Mr. TARUN T. R. Mr. SHARATH K. B. Mr. RAKSHITH GOWDA N.
699.	47S_BE_4321	THREE WAY EMOTION DETECTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. SRINIDHI KULKARNI	Ms. SANJANA A HIREMATH Mr. PUNITH S. Y. Mr. SANJAY H. P. Mr. GNANESH C. S.
700.	47S_BE_4833	DOCTOR'S PRESCRIPTION RECOGNITION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. MADHUSUDHANA G. K.	Ms. SAHANA V. SOMANI Ms. RAKSHITHA M. PRABBHU Ms. RAKSHITHA KASHYAP Mr. ROSHAN KASHYAP
701.	47S_BE_5460	DATA DRIVEN TRADING STRATEGY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. CHIDANANDA MURTHY P.	Ms. SANJANA S. DAIVAGNA Ms. NISHITHA D. Ms. PRAGNYA V. PRASAD Ms. RIONA LOBO
702.	47S_BE_2663	SECURE STEP: ADVANCED HOME SECURITY WITH DOOR MAT SENSORS USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. SRILAKSHMI R. Dr. SREEKESHAVA K. S.	Mr. SRINIVAS T. Ms. CHANDANA K. S. Mr. HARIKISHAN K. Mr. SUDEEP K. S.
703.	47S_BE_3066	DESIGN DEVELOPMENT AND CALIBRATION OF PULSE RYTHEMIC DIALATION USING FIBER BRAGG GRATING FOR PATIENT CARE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. CHETHANA K.	Ms. M. B. CHAITANYA Ms. ANUSHA M. KUDUR Ms. SUSHEELA B. P.
704.	47S_BE_3906	SMART JACKET FOR BAD POSTURE DETECTION AND ALERT WITH IMAGE ANALYSIS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. SMITA AGRAWAL	Mr. SHREESHA S. Ms. RAKSHITHA V. Mr. HEMANTH S. Ms. PUNYASHREE B. M.
705.	47S_BE_4371	IOT BASED INTRAVENOUS FLUID MONITORING AND ALERTING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. CHETHANA K.	Ms. TANISHAA SASTRY Ms. SONIKA M. Mr. YASHWANTH B. R.
706.	47S_BE_4762	LUNG CAPACITY AND HEALTH ANALYZER USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. SUMANGALA GEJJE	Mr. DARSHAN P. Mr. MANOJ K. B. Mr. TEJAS B. Mr. SHREYAS S. N.
707.	47S_BE_0652	REDEFINING MOBILITY: DEEP LEARNING ASSISTED OBSTACLE DETECTION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. ANUPAMA V. P.	Mr. HARSHA S. Mr. NISHAN N. Mr. SRIRAM B. S. Mr. SWAROOP B. N.
708.	47S_BE_1020	BEACH SAND ROVER	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. AVINASH N. RAO	Mr. UJWAL S. C. Mr. DEEPAK R. P Mr. RAKSHITH TARUN S. Mr. MITHUN R.

709.	47S_BE_2851	REAL-TIME MULTI-GASES DETECTION AND ALERT SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. AVINASH N. RAO	Ms. SHALINI H. Ms. NIREEKSHA N.
710.	47S_BE_3184	DESIGN AND DEVELOPMENT OF 3D PRINTABLE FILAMENT USING PLASTIC WASTE	B.E.	MECHANICAL ENGINEERING	Dr. RAGHAVENDRA KRISHNA	Mr. KUSHAL JAMADAGNI Mr. SUHAS C. Mr. VARUN S. Mr. YAJUVENDRA R.
711.	47S_MTech_0042	STUDIES ON SUSTAINABLE GEOPOLYMER PAVER BLOCKS WITH COALMINE OVERBURDEN AS A REPLACEMENT TO FINE AGGREGATES	M.Tech	STRUCTURAL ENGINEERING	Dr. SREEKESHAVA K. S. Dr. NARENDRA REDDY	Mr. ARUN K. S.
712.	47S_MTech_0045	STUDIES ON THE RESPONSE OF GEO-POLYMER BLOCK MASONRY ASSEMBLAGES SUBJECTED TO INPLANE SHEAR	M.Tech	STRUCTURAL ENGINEERING	Dr. SREEKESHAVA K. S. Mrs. BHARGAVI C.	Mr. PRAVEENA

85. K.E. S's INSTITUTE OF EXCELLENCE IN MANAGEMENT SCIENCE, HUBBALLI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
713.	47S_MBA_0079	A STUDY ON LUBRICANT SUPPLY CHAIN NETWORK MANAGEMENT OF AN AUTOMOTIVE LUBRICATING OIL IN SELECTED DISTRICT AREA	MBA	MBA	Dr. VEERANNA D. K.	Mr. KIRAN G. MUDAKANAYKAR Ms. SWATI KOTUR Mr. BEGARI SHAKAR Mr. VISHALSINGH KOTNOOR
714.	47S_MBA_0118	OVERCOMING MARKET BARRIERS: PROMOTING ELECTRIC VEHICLE ADOPTION IN RURAL AREAS OF DHARWAD DISTRICT	MBA	MBA	Dr. MANJUNATH BALEHOSUR	Mr. CHARAN V. HUNASIKATTI Ms. VAISHNAVI L. TOPANNAVAR Mr. HOLABASAYYA P. HIREMATH Ms. VIDYA C. HONNATTI
715.	47S_MBA_0127	A STUDY ON CONSUMER SATISFACTION AND PROMOTIONAL STRATEGY IN RETAIL INDUSTRY	MBA	MBA	Prof. PREETI B. GOUDAR	Mr. FAIZAN RAZA GIRNI Mr. NISAR AHMED SHAITHSANADI Mr. VISHAL P. KOLE Mr. AMNANRAZA MULLA

86. K.L.E SOCIETY's K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKODI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
716.	47S_BE_1261	EFFECTS OF INDUSTRIAL WASTEWATER ON THE PROPERTIES OF HVFA CONCRETE	B.E.	CIVIL ENGINEERING	Dr. AMAR R. CHOUGULE	Ms. LAXMI S. JADHAV Mr. NIKET R. PATIL Mr. PREMANAND L. MUTTATI Mr. SHRIDHAR SHELAR
717.	47S_BE_1656	STRENGTH ANALYSIS OF CONCRETE BY PARTIAL REPLACEMENT OF CEMENT WITH CORN COB ASH AND RICE HUSK ASH	B.E.	CIVIL ENGINEERING	Prof. SUSHILKUMAR BHAGATE	Mr. PAVAN DHAGE Mr. AKASH DHAGE Mr. ADARSH NIRVANI Ms. SOUMYA BASAVAGOL
718.	47S_BE_1787	MANUFACTURING OF BRICKS BY USING LATERITE STONE POWDER	B.E.	CIVIL ENGINEERING	Prof. VINAY MANAGULE	Mr. CHETAN HALAKI Mr. PRAVEEN B. WAGHAMARE Ms. SUMEDHA SADASHIV Ms. VANISHREE NAIK
719.	47S_BE_1082	SMART VOTING SYSTEM THROUGH FACIAL RECOGNITION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SUNIL B. HEBBALE	Ms. ANUSHA GULAGOND Ms. AISHWARYA LAXMAN BADIGER Mr. ARUN ASHOK BATAKURKI Ms. BHAVANA MURAGESH WALI
720.	47S_BE_1182	OBJECT DETECTION AND VIDEO ANALYZER FOR VISUALLY IMPAIRED PEOPLE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VINOD BIRADAR	Ms. POOJA C. KOTIWALE Ms. MEGHA R. BADIGER Ms. ARATI N. JADHAV Ms. AKANKSHA B. KOKANE
721.	47S_BE_1243	AIR GESTURE BASED MOBILE OPERATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VINOD BIRADAR	Ms. PUSHPA S. GANIGER Ms. PRIYANKA A. BORGALLE Ms. PRIYADARSHINI R. BELLARI Ms. NIVEDITA MAGADUM
722.	47S_BE_1393	AUTOMATING PDF INTERACTION USING LANGCHAIN AND CHATGPT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHILPA B. HOSAGOUDRA	Mr. RUSHIKESH JOSHI Mr. SHARANBASU KALBURGI Mr. SARTHAK TAVADARE Mr. NITIN PATIL
723.	47S_BE_1666	LANGUAGE TRANSLATION WITH CULTURAL SENSITIVITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. MAHANTESH R. LADDI Prof. VINOD BIRADAR	Mr. SHANKAR PATIL Mr. KIRAN VIJAPURE Mr. ROHAN PAYAMALLE Mr. SHUBHAM MAGADUM

724.	47S_BE_1704	PHONE FREEDOM REMOTE CONNECTIVITY WITHOUT INTERNET BOUNDARIES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ASHWINI PHARALAD	Mr. SUMIT R. CHONCHANNAVAR Mr. VINAYAK KHOT Ms. SHRUSHTI SADALAGI Mr. SAHIL RAUT
725.	47S_BE_2282	DETECTION OF FAKE ONLINE REVIEWS USING SEMI-SUPERVISED AND SUPERVISED LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. PRAJWALA R. PATIL	Ms. ASAVARI D. MADHALE Ms. MRUNALI M. PATIL Ms. PRANJALI V. BHOPALE Ms. NIKITA S. INGALE
726.	47S_BE_1674	DESIGN AND DEVELOPMENT OF 3-DIMENSIONAL DIGITAL INSTRUMENT FOR ANALYZING INTERVERTEBRAL RANGE OF MOTION IN SPINAL CORD	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SANJAY PUJARI	Ms. SMITA MAHAVEER VAIGUDE Ms. BHAVANI CHANDRASHEKHAR BAHADDURI Ms. TEJASHWINI SUBHASH SAMBHAJI Ms. ANNAPURNA SANJAY CHAVAN
727.	47S_BE_2187	DESIGNING A DIGITAL INSTRUMENT FOR LIMB LENGTH AND GIRTH MEASUREMENT IN HEALTHCARE AND ARM REHABILITATION FOR PHYSIOTHERAPIST	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SANJAY PUJARI	Ms. SHRADDHA ABHAY SANGALE Ms. AISHWARYA M. SHETTI Mr. SHIVAYOGI AMATE Mr. ANIRUDDHA PATIL
728.	47S_BE_2593	FUTURISTIC ANIMAL HEALTH SURVEILLANCE AND TRACKING SYSTEM WITH IOT INTEGRATION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. PRASHANT HEBBALE	Mr. ROHAN SHIRAGOANKAR Mr. ADITYA ROKHADE Mr. OMKARESHWAR NAIK Mr. SHIVANAND AMMANAGI
729.	47S_BE_3636	A NEXT GEN PERSONALIZED SMART PARKING SOLUTION FOR RESIDENTIAL BUILDING	B.E.	MECHANICAL ENGINEERING	Prof. MAHESH R. LATTE	Mr. GANESH UMARANE Mr. MUHAMMAD GAZALI MULLA Mr. BASAVARAJ MAYANNAVAR
730.	47S_BE_5206	EXPERIMENTAL STUDY ON CHARACTERISATION AND THERMOPHYSICAL PROPERTIES OF HYBRID NANOFLIDS	B.E.	MECHANICAL ENGINEERING	Prof. KUMAR CHOUGALA	Mr. MAHALING DALAL Mr. KISHOR MARADI Mr. VITTAL PAMALADINNI Mr. AKSHAY PATIL

87. K.L.E. Dr. M. S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, BELAGAVI

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
731.	47S_BE_4228	EFFICIENT COMPOSTING SOLUTIONS: ACCELERATING FOOD WASTE DECOMPOSITION WITH MICROBIAL INOCULUM	B.E.	CIVIL ENGINEERING	Dr. PRAVEEN A. GHORPADE Dr. NAYANA P. HOOLIKANTIMATH	Mr. SAURAV VISHWAKARMA Mr. SAGAR SHANKAR MALADINNI Mr. PRADEEP M. HEGARADDI Mr. SUDEEP PATIL
732.	47S_BE_5230	FROM BYPRODUCT TO BUILDING MATERIAL-REDEFINING CLAY BRICKS WITH BAYER'S REDMUD USING SUSTAINABLE APPROACH	B.E.	CIVIL ENGINEERING	Dr. NAYANA P. HOOLIKANTIMATH Dr. PRAVEEN A. GHORPADE	Ms. AYISHA DAVALASAB MARTUR Ms. KAVYA KHADAKABHAVI Ms. AISHWARYA YATTALADADDI Mr. PRAVEEN S. NAIK
733.	47S_BE_1420	DETECTION OF DEFECTS IN MACHINES USING AR ON ENGINEERING DRAWINGS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MANISHA TAPALE	Ms. AYESHA MULLA Ms. SHILPA PATIL Ms. CHAITRA MANJUNATH GUNAGA Mr. M. SUMIT NAYAK
734.	47S_BE_2899	BATTERY MANAGEMENT SYSTEM PERFORMANCE EVALUATION THROUGH DATA-DRIVEN, DIGITAL TWIN POWERED DEEP LEARNING MODEL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SANTOSH PATTAR	Ms. NAVYASHREE T. M. Mr. SACHIN RATHOD Ms. SAHANA GUDDAKAYU Mr. PRAJWAL PATIL
735.	47S_BE_3351	AVATAR GENERATION IN METAVERSE USING SENTIMENTAL ANALYSIS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PREMA AKKASALIGAR	Ms. ARPITA CHIRALADINNI Mr. ADITYA POWAR Mr. PRANAV MURALIDHAR Mr. SAHIL PAWALE
736.	47S_BE_5270	DESIGN OF MULTIPHASE INVERTER FOR MULTIPHASE INDUCTION MOTOR USED FOR ELECTRIC VEHICLES	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. RAKESH HALLIGUDI	Mr. ROHIT KAGE Ms. ANANYA JOSHI Ms. SAVITA BANAHATTI Mr. RAVINDRA SAVADI
737.	47S_BE_2854	MULTIMODAL AUTHENTICATION SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. ARUN S. TIGADI	Ms. NANDINI KALAL Mr. MAHAVEER RAJPUROHIT Ms. ANITA BENNI Mr. SHRINIVAS GAVADE
738.	47S_BE_3070	DETECTION OF ARTERY, NERVES, MUSCLES AND BONES FROM RADIOLOGY IMAGES OF SKIN	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SWATI M.	Mr. ADITYA KULKARNI Mr. AMAR PATIL Ms. SHREYA CHOUGULE Ms. ANUSHA POOJAR

739.	47S_MTech_0073	TRANSFORMING INDUSTRIAL WASTE INTO SUSTAINABLE CLADDING BRICKS: A GREENER APPROACH TO CONSTRUCTION	M.Tech	ENVIRONMENTAL ENGINEERING	Dr. PRAVEEN GHORPADE Dr. NAYANA P. H.	Ms. NEHA A. NAIK
740.	47S_MBA_0146	REVOLUTIONIZING STOCK CONTROL FOR LOCAL BUSINESSES IN INDIA	MBA	MBA	Dr. PRAYAG GOKHALE	Ms. VAISHNAVI KURLAPKAR Ms. DEEPALI VIRUPAXI Ms. JANVI BHADRA Ms. SANA SAYYAD

88. K.L.E. INSTITUTE OF TECHNOLOGY, HUBBALLI

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
741.	47S_BE_5110	COMPARATIVE STUDY OF EFFECT OF CHEMICAL FERTILIZER AND BIO FERTILIZER IN HYDROPHONIC USING BORE WATER	B.E.	CIVIL ENGINEERING	Prof. SANDESH HUGGI Dr. RAJASHEKHAR LADDIMATH	Mr. VIJAYANAND N. L. Ms. KSHAMA S. A. Ms. KAVYA A. B. Mr. JAGADISHAYYA K.
742.	47S_MCA_0074	JARVIS VOICE ASSISTANT FOR ACADEMICS USING NLP	M.C.A.	COMPUTER APPLICATIONS	Mrs. LAXMI PUJARI	Mr. ADARSH KALMESHWAR KAMMAR Mr. VISHALU S. KUDLEPPANAVAR Ms. SUMAN J. HEGDE Mr. ARUN MOPAGAR/ Ms. SRUSHTI DODAWAD
743.	47S_MCA_0096	VEGETATION CLASSIFICATION ALERTS FOR DRIVER/DRIVERLESS MOTORING	M.C.A.	COMPUTER APPLICATIONS	Mrs. ANUPAMA NANDEPPANAVAR	Ms. NEHA HONNALLI Mr. MALLIKARJUN N. K. Ms. SINDHU A. Ms. SNEHAL HANGAL
744.	47S_BE_4017	E-Fy: A TECHTAINMENT BOOK	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. PRADEEP SURASURA	Ms. PRANJALI S. PATIL Ms. SANJANA R. DESHPANDE Ms. SANJANA S. KADAPATTI Mr. SUMANT S. NIDONI
745.	47S_BE_4155	VEHICLE TOLL MONITORING SYSTEM USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. RAJESH YAKKUNDIMATH	Mr. SAGAR BAGALKOTI Mr. PRADEEP TUMBINAVAR Ms. RAMYA KULKARNI Ms. ADITI KULKARNI
746.	47S_BE_4678	OVARIAN CANCER OUTLIER DETECTION AND SUBTYPE CLASSIFICATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. GIRISH SAUNSHI	Ms. SUNIDHI PATANGE Mr. SACHETAN HERALAGI Mr. VISHAL VENKATESH SORTUR Ms. SEJAL PORE
747.	47S_BE_5472	ESTIMATION OF YELLOW RUST SEVERITY IN WHEAT USING MACHINE LEARNING MODELS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. MALATHI S. Y.	Ms. ASHWINI RAWAL Mr. NAGARAJ RAIKAR Ms. NIKITA C. BADAMI Ms. VANISHREE REVANSIDDAYYA HIREMATH
748.	47S_BE_4534	AUTONOMOUS LEGO LINE FOLLOWING ELECTRIC VEHICLE (EV) WITH SELF CHARGING TECHNOLOGY	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. PRAKASH KERUR	Mr. SANKALP R. ANGADI MR. RAVI BADAWADAGI MR. SHASHANK S. HIREMATH MR. D. SAIKARTHIK
749.	47S_BE_4875	MULTI-INPUT DC-DC CONVERTER FOR HYBRID ELECTRIC VEHICLES	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. KEERTHI KUMAR S. H.	Mr. VISHAL KARIGAR Mr. SHIVARAJ GUGRI Mr. VARUN TALWAR
750.	47S_BE_5233	VEHICLE EMISSION MONITORING, DETECTING AND TRACKING USING GPS & GSM	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. PRAKASH KERUR Dr. PRAKASH KERUR	Mr. ATHAR PARVEZ MADAKI Mr. SAI PRASAD ACHARYA Mr. SALEEMAHAMAD NAGANOOR Mr. SAYED ASEEL ATHAR KAZI
751.	47S_BE_5369	DESIGN AND IMPLEMENTATION OF SPEED CONTROL SYSTEM FOR ELECTRIC BIKE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. VINODA S	Mr. APPASABGOUDA S. B. Mr. ANANDGOUDA N. Ms. JAGADESHWARI J. Ms. ANUSHA K.
752.	47S_BE_5271	IOT BASED FIRE DETECTION SYSTEM IN INDUSTRIES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. PRAMOD V. RAMPUR	Ms. HANSHIKAA S. UNAKAL Mr. ATEEKAHMAD ABDULGAFAR BAGABAN Ms. AFEEFA KHADRI Mr. KISHOR S. ANANTPUR
753.	47S_BE_5291	IOT BASED LIVESTOCK MONITORING SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. MADHU GUDGUNTI	Mr. VISHWA KATTIMATH Mr. UDAYGOUDA HIREGOUDAR Mr. VINAY P. DAMBAL Mr. VARUN D. NAIK

754.	47S_BE_2799	DESIGN AND DEVELOPMENT OF COLLAPSIBLE PUBLIC TRANSPORT RAMP	B.E.	MECHANICAL ENGINEERING	Dr. SHARANABASAPPA C. SAJJAN	Mr. ANURAG P. PATIL Mr. AKSHAY S. KULKARNI Mr. ABHISHEK B. DHONGADI Mr. HANAMANTHGOUDA PATIL
755.	47S_BE_3951	DESIGN AND FABRICATION OF WATER HYACINTH REMOVAL MACHINE	B.E.	MECHANICAL ENGINEERING	Dr. SHARANABASAPPA C. SAJJAN	Mr. SAYED AWAIZ NASWALE Mr. KEVIN NORONHA Mr. FARHAN KHURESHI Mr. AFTAB ADHONI
756.	47S_BE_4042	DEVELOPMENT AND PERFORMANCE STUDY OF ALUMINIUM AIR BATTERY	B.E.	MECHANICAL ENGINEERING	Mr. SUCHEET GOGERI Mr. MANJUNATH G. PRASAD	Mr. SAMMED C. HUDDAR Mr. AYUSH M. KUDAVAKKALAGI Mr. SHIVAKUMAR G. HUKKERIMATH Mr. VIJAY RAMAPPA LAMANI
757.	47S_BE_4489	DESIGN AND FABRICATION OF DOSA MAKING MACHINE	B.E.	MECHANICAL ENGINEERING	Dr. ANAND S. REDDY	Mr. NAVEEN AMARAVATI Mr. SHRIDHAR BASAPPA HALAVAGALI Mr. MD MUHIB ATTAR Mr. NIKHIL K. H.

89. K.L.E. SOCIETY's BASAVAPRABHU KORE ARTS SCIENCE AND COMMERCE COLLEGE, CHIKODI

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
758.	47S_MSC_0033	FUNCTIONALIZED MAGNETIC NANO PARTICLES - PLANT GROWTH PROMOTER AND FERTILIZER	M.Sc	BOTANY	Dr. SHIDALING MATTEPPANAVAR Dr. SUNIL M. PATIL	Ms. VANITA BALIKAYI Ms. BISMILLA KALADAGI

90. K.L.E. SOCIETY's S. NIJALINGAPPA COLLEGE RAJAJINAGAR, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
759.	47S_MCA_0089	ENHANCING MULTILINGUAL ACCESSIBILITY ON YOUTUBE: A REGIONAL LANGUAGE TRANSLATION APPROACH	M.C.A.	COMPUTER APPLICATIONS	Mrs. ROOPA H. R. Mrs. MADALAMBIKA K. C.	Mr. PRASHANTH S. Mr. NIKHIL NARAYAN NAIK
760.	47S_MCA_0097	BRIDGECONNECT: FOSTERING STUDENT-INDUSTRY COLLABORATION	M.C.A.	COMPUTER APPLICATIONS	Mrs. PRABHA B. V. Mr. PRADEEP B	Mr. RITESHA SHETTIGAR Ms. CHANDANA M. Ms. ASHA G. V. Mr. SHIVABASAV RAJASHEKHAR HIREMATH
761.	47S_MSC_0150	VIRTUAL LEARNING ASSISTANT - ENHANCING EDUCATIONAL EXPERIENCES WITH NLP CHATBOT TECHNOLOGY	M.Sc	COMPUTER SCIENCE	Mrs.O. R. ARUNA Mrs. NETRAVATHI KURI L.	Ms. RASHMI H. N. Ms. SHARANYA J. Ms. BHAGYASHREE G. Ms. NITHYASHREE N.
762.	47S_MSC_0107	DESIGN, SYNTHESIS, SPECTRAL ANALYSIS AND PHARMACOLOGY OF NOVEL 1,3,4-OXADIAZOLES: ANTIPROLIFERATIVE ACTIVITY, MOLECULAR DOCKING AND DNA BINDING STUDIES	M.Sc	ORGANIC CHEMISTRY	Dr. TEJA H. B. Dr. S.M. BASAVARAJAIAH	Ms. PAVITHRA A. Ms. SUNITHA S. K. Ms. ANUSHREE A. Ms. KEERTHANA B. R.

91. K.L.E. TECHNOLOGICAL UNIVERSITY, HUBBALLI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
763.	47S_BE_3099	SYNTHESIS OF DELAFOSSITE FOR REMOVAL OF PHOSPHATE	B.E.	CIVIL ENGINEERING	Prof. NAGALAKSHMI KULKARNI	Ms. SRISHTI PATTANSHETTI Ms. DEEPA SANJEEVA HOTTEPPANAVAR Mr. MANJUNATH GUNDAPPA SAWAKAR Ms. ASHWINI MECHENNAVAR

92. K.L.S. GOGTE INSTITUTE OF TECHNOLOGY, UDYAMBAG, BELAGAAVI

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
764.	47S_BE_1014	MECHANICAL AND WEAR BEHAVIOUR OF SILICON NITRIDE FILERS AND	B.E.	AERONAUTICAL ENGINEERING	Prof. ISHWARAGOWDA V. PATIL	Ms. RADHIKA A. VAJRAMATTI

		NATURAL FIBERS REINFORCED EPOXY L-12 POLYMER COMPOSITES FOR AIR INTAKE LIP OF AN UN MANNED ARIEL VEHICLE			Dr. MADEVA NAGARAL	Ms. SOUJANYA JANGLE Ms. ASUSHA AROLKAR
765.	47S_BE_0694	INNOVATIVE APPROACH TO INDUSTRIAL WASTEWATER TREATMENT: HARNESSING SUSPENDED GROWTH SYSTEM	B.E.	CIVIL ENGINEERING	Prof. NITIN DESHPANDE	Ms. RAKSHITA DODAMANI Ms. VADIRAJ DESHPANDE Ms. PRATIBHA BIRADI Mr. MAHESH KUMAR
766.	47S_BE_0948	DURABILITY STUDIES ON CONCRETE WITH BAGASSE ASH AS AN ALTERNATIVE MATERIAL FOR CEMENT	B.E.	CIVIL ENGINEERING	Prof. KARTIK KULKARNI	Mr. AKASH AGASAR Mr. VARUN MALAKANNAVAR Ms. DANESHWARI SHIRAGANNAVAR Mr. PRASANNA HEBBALKAR
767.	47S_BE_0986	EFFECT OF POLLUTANTS ON CONSOLIDATION CHARACTERISTICS OF SOIL	B.E.	CIVIL ENGINEERING	Dr. VIKAS GINGINE	Mr. MANIKANTHA M. ALAWANI Mr. AKKHILESH YALLAPPA BELGAONKAR Mr. KEDAR ADINATH LATUKAR Mr. IRANNA KAMASHETTI
768.	47S_BE_3109	DETECTION OF RECKLESS DRIVING AND ONCOMING TRAFFIC, ALONG WITH A WARNING SYSTEM IN GHAT HAIRPINS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. KULDEEP SAMBREKAR	Mr. ROHAN S. SHINDE Mr. SAMYAK HANAMGOND Mr. OMKAR UMADI Mr. ATHARV KARCHI
769.	47S_BE_1192	ENVIRONMENT CONCIOUS REVERSE VENDING MACHINE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SANTOSH KULKARNI	Mr. SHREESHAIL Mr. PRASAD BADIGER Mr. YASH LOHAR Mr. SHIVANAND NAGANURI
770.	47S_BE_1533	COMPUTER VISION BASED HELMET TRAFFIC VIOLATION, DETECTION AND PERSON IDENTIFICATION IN SMART CITIES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. UTTAM DESHPANDE Prof. VAIDEHI DESHPANDE	Mr. SUPREET GOUDAR Ms. SHREYA INGALE Mr. VARUN TANDUR Ms. VAISHNAVI CHARANTIMATH
771.	47S_BE_2536	IOT BASED WATER QUALITY MONITORING SYSTEM AND ARSENIC DETECTION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. ANUPAMA AWATI Dr. RAVIRAJ M. KULKARNI	Mr. ASHIRWAD GURAV Mr. ADHIRAJ M. ALATAGE Mr. ATHARVA NATHBUVA Mr. DHYANESHWAR MANDOLKAR
772.	47S_MBA_0056	READINESS OF MANUFACTURING ORGANIZATIONS TO CONCORD WITH GLOBAL AIMS OF FIGHTING CLIMATE CHANGE AND SUSTAINABILITY- AN EXPLORATORY STUDY	MBA	MBA	Dr. SANJAY K. DESHPANDE	Ms. AKSHATA MAGDUM Ms. SHREYA YALLUR Ms. SRINIDHI HOLEPPAGOL Mr. MOHAMMAED YASEEN BULBULE
773.	47S_BE_1212	INVESTIGATIONS ON THE EFFECT OF THE HYDRO THERMAL CYCLES ON THE 3D PRINTED ULTRASONIC WELDED JOINTS FOR AEROSPACE AND MARINE APPLICATIONS	B.E.	MECHANICAL ENGINEERING	Dr. ARUNKUMAR P. Dr. VIVEK TIWARY	Mr. PRAJWAL ARALI Mr. BHARATH KURI Mr. RAHUL PATANKAR Mr. KRISHNA BINGE
774.	47S_BE_1226	INVESTIGATIONS ON ULTRASONIC WELDING OF FDM-3D PRINTED PARTS TO OVERCOME ITS BED SIZE LIMITATION FOR MANUFACTURING INDUSTRY	B.E.	MECHANICAL ENGINEERING	Dr. VIVEK TIWARY Dr. VINAYAK R MALIK	Mr. AKHILESH VERNEKAR Ms. AISHWARYA PANCHAXARIMATH Ms. ASHWINI LOHAR Ms. NAMRATA KABBE
775.	47S_MTech_0016	IMPACT OF ELEVATED TEMPERATURES ON THE STRENGTH PROPERTIES AND MICROSTRUCTURE STUDY OF FIBRE (CARBON AND POLYPROPYLENE) REINFORCED CONCRETE	M.Tech	STRUCTURAL ENGINEERING	Prof. SACHIN R. KULKARNI	Mr. YOGESH B. DESAI

93. K.L.S. VISHWANATHRAO DESHPANDE INSTITUTE OF TECHNOLOGY, HALIYAL, UTTARA KANNADA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
776.	47S_BE_4146	TREATMENT OF GROUND WATER CONTAMINATION	B.E.	CIVIL ENGINEERING	Prof. SEEMA R. BASARIKATTI	Mr. AMAN LOKESH HEGDE Ms. BISHTAKKA TARIHAL

		USING GRAPHENE OXIDE OF KARWAR REGION				Mr. PRASHANT NARAGUND Mr. SANDEEP BHAJANTRI
777.	47S_BE_3822	AIR QUALITY SENSING AND MONITORING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. POORNIMA RAIKAR Dr. VENKATESH SHANKAR	Mr. SAVIO REBELLO Mr. JONATHAN W. DAVID Mr. BHARGGAV GONDAKAR Ms. RAKSHITA R. DEVARADDI
778.	47S_BE_4452	SMART MEDICATION DISPENSER AND REMINDER USING EMBEDDED SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. NIKHIL A. KULKARNI	Mr. FAIROZ RAMAPUR Mr. CHARAN C. SHANBOG Mr. DHEERAJ V. KULKARNI Mr. FAYAZANWAR I. JAKATI
779.	47S_BE_0470	GREEN METAL MATRIX COMPOSITES: REPURPOSING DEBRIS FOR ENGINEERING PURPOSES	B.E.	MECHANICAL ENGINEERING	Dr. GURURAJ HATTI	Mr. AKSHAY KITTUR Mr. SHASHANK S. YANKANCHI Mr. OMKAR P. NARVEKAR
780.	47S_BE_1562	PERFORMANCE EVALUATION OF PORTABLE DOMESTIC SOLAR VEGETABLE DRYER	B.E.	MECHANICAL ENGINEERING	Dr. SHANKAR BADIGER	Mr. MANJUNATH P. MORE Mr. VISHWA GOUDA Mr. PRAVESH SAVANT Mr. GIRISH PATIL

94. K.N.S. INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
781.	47S_BE_4241	AUTOMATIC WRITING AND DRAWING MACHINE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. DAWA CHYOPHEL LEPCHA	Mr. MUZAMMIL HASSAN Mr. MUBARAK ALI
782.	47S_BE_5016	IOT BASED NEXT GENERATION SAFETY PIN FOR WOMEN AND CHILDREN USING RASPBERRY PI	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. JABEENA BANU	Ms. CHAITANYA RATHNAM V. Ms. CHAITHRA S.

95. K.S. INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
783.	47S_BE_3730	PREVENTION AND DETECTION OF BOTNET ATTACKS	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Mrs. RENUKA PATIL	Ms. YASHILA R. Mr. GURUDEEP R. Ms. YOGITHA S. Mr. V. VARUN
784.	47S_BE_3782	DEEPFAKE CREATION AND DETECTION FOR MULTIMEDIA CONTENT	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Ms. LAKSHMI K. K.	Ms. RUPA RAJASRI PUTHINEEDI Ms. M. DIVYASHREE Ms. POORNIMA M. C. Ms. TANMAYEE R.
785.	47S_BE_1631	CYBER APARADHA SAMBANDITHA KAANUNU SALAHE(CAS-KS)	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. REKHA B. VENKATAPUR	Ms. GANASHREE K. Ms. GANASHREE G. M. Ms. DHANYA SHARANYA SHREE R.
786.	47S_BE_2235	BIONIC ARM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. PRAVEEN A. Mr. B. SUDARSHAN	Ms. HIMA SWETHA Ms. B. S. HEMASHREE Ms. BHUNVESHWARI K. Ms. CHAITHRA K.
787.	47S_BE_4185	ACCIDENT PREVENTION SYSTEM FOR RAILWAYS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SANTHOSH KUMAR B. R.	Ms. PRIYANKA M. Ms. NEHA C. R. Ms. PAVANI T. S. Ms. PUSHPA D. T.
788.	47S_BE_4605	SMART REAL TIME DRAINAGE MONITORING SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. P. N. SUDHA	Mr. SUMUKHA S. Mr. RAHUL KRISHNAN V. Mr. TARUN PRASANNA Mr. TEJAS N. REDDY
789.	47S_BE_4703	SMART WIRELESS EMERGENCY PENDANT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. DINESH KUMAR D. S.	Ms. AFEEFA SHARIEFF Ms. ERAM FATHIMA Ms. MADIHA
790.	47S_BE_5175	DESIGN & FABRICATION OF ADAPTIVE DRIVING ATTACHEMENT TO AN EXISTING FOUR-WHEELER VEHICLE TO HELP DIFFERENTLY ABLED PERSON	B.E.	MECHANICAL ENGINEERING	Dr. NIRMALA L.	Mr. SHREYAS S. K. Mr. HARYANK V. KASHYAP

96. K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
791.	47S_BE_1273	EXPERIMENTAL INVESTIGATION ON MASONRY STRUCTURE WITH HORIZONTAL	B.E.	CIVIL ENGINEERING	Mr. MANJUNATH B. Mr. PRASHANTH M.	Mr. PAVAN S. Mr. CHANDAN K. Ms. NIDA MANZOOR TELI Mr. CHARAN C. S.

		REINFORCEMENT ON SHAKE TABLE				
792.	47S_BE_1346	EXPERIMENTAL STUDY ON A 4 STOREY STEEL FRAME TO REDUCE DISPLACEMENT USING TUNED MASS DAMPER.	B.E.	CIVIL ENGINEERING	MR. SHASHIPRASAD N Dr. NAVEENA M. P.	Ms. SUJITHA E. Mr. PRAMOD S. Mr. DARSHAN P. Mr. KEERTHAN M. R.
793.	47S_BE_0176	ENERGY HARVESTING WHILE WALKING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SUSHMITHA SURESH Mrs. CHANDANA V. S.	Ms. SUCHITHRA M. B. Mr. V. YASHWANTH NAIDU Mr. VIKRAMA C. Mr. VISHWANATH VIVEK
794.	47S_BE_0177	LIFE EXPECTANCY POST THORACIC SURGERY USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. CHANDANA V. S. Mrs. SUSHMITHA SURESH	Ms. NANDINI V. Ms. NISHMITHA R. Ms. NITHYA A. Mr. ROSHAN KUMAR L.
795.	47S_BE_0198	SEPSIS PREDICTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NAGAVENI B. NIMBAL	Mr. PRITHVI RAJ CHAVAN Mr. SAGAR NAIDU Mr. RAHUL B. M. Mr. NIKHIL K. H.
796.	47S_BE_0199	WASTE SEGREGATION AND MANAGEMENT USING DEEP LEARNING AND IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. JAYASHUBHA J. Mrs. JAYASHUBHA J	Mr. BHUSHAN P. Ms. LIKHITHA L. MAHESH Mr. KUMARASWAMY N. Ms. LAVANYA M.
797.	47S_BE_1052	A LOW-COST THERAPEUTIC EXERCISE MACHINE FOR MECHANISED KNEE REHABILITATION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. K. SENTHIL BABU	Ms. TEJASHREE M. Mr. KAKARLA JASWANTH CHOWDARY Mr. ATHISH NAVEEN Mr. MOHAMMED JUNAID M GUDDAD
798.	47S_BE_1474	PROTOTYPE FOR SURFACE WASTE COLLECTION SYSTEM IN WATER BODIES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. MANU D. K.	Mr. R. PARTHIBAN Mr. M. B. HEMANTH Mr. G. BHARATH KUMAR Mr. P. SAI KETHAN CHOWDARY
799.	47S_BE_2266	DESIGN AND PROTOYPE FABRICATION OF VORTEX WIND TURBINE	B.E.	MECHANICAL ENGINEERING	Dr. ABHISHEK M. R.	Mr. PRATHWIN B. R. Mr. PAVAN G. Mr. MALLIMPATTU VINAY Mr. KONANKI RAKESH

97. K.V.G. COLLEGE OF ENGINEERING, SULLIA, DAKSHINA KANNADA

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
800.	47S_BE_3050	HUMAN BITE MARK IDENTIFICATION USING ML (MACHINE LEARNING)	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SAVITHA C. K.	Mr. KARTHIK Ms. DISHA G. K. Mr. SACHIN M. T. Ms. SAPTHAMI C.G.
801.	47S_BE_3053	BUZZHUB: SMART BEEHIVE REMOTE MONITORING AND BEE KEEPING SYSTEM USING IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SMITHA M. L.	Mr. REEVAN B. R. Ms. ANANYA R. HEBBAR Ms. VIDYASHREE L. ACHAR Mr. LISCHITH K. R.
802.	47S_BE_4376	PEPPER GRADING AND COST ESTIMATION USING IOT BASED DEEP LEARNING MODELS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. BHAGYA JYOTHI K. L.	Ms. RANJITHA R. Ms. DEEPTHI K. D. Ms. SANCHITHA H. B. Ms. SONASHREE

98. KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
803.	47S_MBA_0032	ORGANIC PAPER BAG: WITH PLANTABLE PAPER BAGS	MBA	MBA	Mrs. SUJATHA N. SHEERI	Ms. S. MADHURA Ms. YASHASWINI H. J. Mr. JEEVAN G. L. Mr. KIRAN M. C.
804.	47S_BE_4314	DESIGN AND FABRICATION OF TWO-WHEELER FOR AGRICULTURAL APPLICATIONS	B.E.	MECHANICAL ENGINEERING	Mr. AJAY C. K.	Mr. GANESH RAIKAR Mr. KIRAN K. N. Mr. NIDUMANAHALLI SHESHE GOWDA KARTHIK Mr. SADASHIVA S

99. KARAVALI INSTITUTE OF TECHNOLOGY, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
805.	47S_BE_2756	AUTONOMOUS UNMANNED AERIAL VEHICLE FOR MULTIPURPOSE	B.E.	AERONAUTICAL ENGINEERING	Mr. NAVEENA P	Ms. BHOOMIKA G. Ms. PALLAVI K. V. Mr. SAMEER AHMED NAGARBOUDI

806.	47S_BE_2892	A MORPHING QUADROTOR FOR INSPECTION, MAPPING AND AERIAL IMAGING BY CHANGING SHAPE.	B.E.	AERONAUTICAL ENGINEERING	Dr. RAGHU CHAND R.	Ms. Y. M. MUSKHAN Mr. GAGAN A. Ms. MOUNIKA R. Ms. POOJA S.
807.	47S_BE_3135	EXTRACTING WATER FROM WIND THROUGH WIND TURBINE USING PELTIER	B.E.	AERONAUTICAL ENGINEERING	Dr. RAGHU CHAND R.	Ms. MUNAZZA TASNEEM Ms. DEEPA M. B. Mr. SUBRAHMANYA GAJANANA GOUDA Mr. ANIL B. J.
808.	47S_BE_3499	REMOVING FLOATING DEBRIS WITH AN INNOVATIVE WATER LANDING DRONE	B.E.	AERONAUTICAL ENGINEERING	Dr. RAVINDRA BABU G.	Ms. SWETHA C. Mr. AJITH C. M. Ms. POOJA R. Mr. MOHAMMED GOUS KALADAGI

100. KARNATAK ARTS SCIENCE AND COMMERCE COLLEGE, BIDAR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
809.	47S_MSC_0129	DEEP LEARNING BASED MICROSCOPIC ALGAE CLASSIFICATION FOR BIO-PROCESS MONITORING	M.Sc	COMPUTER SCIENCE	Mrs. JYOTI PATIL Mr. RAJMOHAN P.	Ms. UZMA NAUSHEEN Ms. SHIVANI M. Ms. SHRADDHA T. SAMIA ERUM KHALEEL AHMED

101. KARNATAK UNIVERSITY, DHARWAD

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
810.	47S_MSC_0253	ECOFRIENDLY AND COST-EFFECTIVE APPROACH FOR THE BIODEGRADATION OF MICROPLASTICS USING WATER AS A SOURCE	M.Sc	BIOTECHNOLOGY	Dr. SHIVASHARAN A C. T. Dr. PRAVEEN SATAPUTE	Ms. ARUNA Ms. CHAITRA BASHETTI Mr. ISMAIL JABIULLA T. Mr. PRAMOD KALLAPPA BUDIHAL
811.	47S_MSC_0201	SCREENING OF MICROBIAL CONSORTIUM FROM BIOFILMS ON DEGRADING PLASTICS FOR THEIR PLASTIC DEGRADING EFFICIENCY.	M.Sc	MICROBIOLOGY	Prof. V. SHYAM KUMAR Dr. SHEELA KHANAPURE	Mr. JATTEPPA ALAL Mr. NAGARAJ BASAVARAJ MARIHAL Mr. NEELAKANTH MANTUR Mr. RAKESH ABBIGERI

102. KRISTU JAYANTI COLLEGE, AUTONOMOUS, KOTHANUR PO, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
812.	47S_MSC_0142	UNRAVELLING THE THEREPATICAL POTENTIAL OF COLEUS AROMATICUS: MEDICINAL INSIGHTS AND SYNERGISTIC PRODUCTS THROUGH ADVANCED ENCAPSULATION	M.Sc	BIOCHEMISTRY	Dr. SHINOMOL GEORGE K.	Ms. SWATHI KRISHNA R. Mr. ARAVIND V. Ms. SHANIBA SHERIN P.
813.	47S_MSC_0144	EXPLORATION OF POTENTIAL ENDOPHYTIC ACTINOMYCETES DERIVED FROM MANGROVE ECOSYSTEM AND HARNESSING THE EFFICACY AS PLANT GROWTH PROMOTING AND BIO-CONTROL AGENT TO CONTROL DISEASE IN PEARL MILLET.	M.Sc	LIFE SCIENCE	Dr. C. M. REENA JOESPHINE Dr. ARPITA MISHRA	Ms. SWATHI T MAHENDRAN Ms. ANUPAMA A. N.
814.	47S_MSC_0189	ENDOPHYTIC FUNGI FROM MANGROVES: AROAD MAP FOR COMMERCIALIZATION TO COMPACT THE DISEASE IN PEARL MILLET	M.Sc	LIFE SCIENCE	Dr. C. M. REENA JOSEPHINE Dr. P. ROOPA	Ms. SARA MARIA SHAJI Mr. ANIRUDH K.
815.	47S_MSC_0275	BACTERIOCIN - NANOCONJUGATE: ACTIVE ANTIMICROBIAL PACKAGING MATERIAL FOR FOOD INDUSTRY	M.Sc	LIFE SCIENCE	Dr. SANGEETHA MENON Dr. ARPITA MISHRA	Ms. AISHWARYA Ms. ANUJA ANN GEORGE Ms. SNEHA S. Ms. PAVITRA M.

103. LINGARAJAPPA ENGINEERING COLLEGE, BIDAR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
816.	47S_BE_1488	EXPERIMENTAL INVESTIGATION OF	B.E.	CIVIL ENGINEERING	Mr. SHIVANAND JALADE	Ms. BHAVYABHARATI Mr. SAIKUMAR Mr. MD REHANUDDIN

		CONCRETE BY RECYCLE AGGREGATE M25 & M30				Mr. MOHD SHOAIB RAFIUDDIN
817.	47S_BE_0456	DEEP LEARNING MODEL FOR DRONE IMAGE SEMANTIC SEGMENTATION USING DEEPLAB3+	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VEERESH BIRADAR Prof. GURURAJ NASE	Ms. SHREYA KULKARNI Ms. VAISHNAVI THAKUR
818.	47S_BE_1220	MELENOMA CANCER DETECTION USING DEEP LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. GURURAJ NASE Prof. VEERESH BIRADAR	Ms. VACHANASHREE Ms. KANCHANA Ms. PRIYANKA
819.	47S_BE_1785	EARLY DEPRESSION DETECTION USING AI AND ML	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NEELAMBIKA Prof. SHRUTI MODI	Ms. KAVYA KORE Ms. AMBIKA
820.	47S_BE_2349	DEEP LEARNING BASED MULTI RETINAL DISEASES CLASSIFICATION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SHARANBASAPPA SHETKAR	Mr. SHRISHAIL Mr. DAYANAND

104. M.S RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
821.	47S_MSC_0108	FORMULATION AND EVALUATION OF SAPONIN BASED BIO-DETERGENT WITH IMMOBILIZED ENZYME AS A DETERGENT ADDITIVE	M.Sc	BIOCHEMISTRY	Ms. TANISHA RATHORE	Ms. AMRUTHA RANGASHREE Ms. C. N. DHAMINI Ms. SAHANA L. J
822.	47S_MSC_0032	FABRICATION OF GREEN NANO-CARBON QUANTUM DOTS FOR THE DEVELOPMENT OF ON-OFF-ON FLUORESCENT SENSOR FOR THE DETECTION OF HEAVY METALS IN WATER	M.Sc	CHEMISTRY	Dr. SMRITHI S. P. Dr. BHARATH K. DEVENDRA	Ms. SINCHANA K. P. Mr. DHARSHAN K. Ms. SNEHA
823.	47S_MSC_0075	EXPLORING THE CATALYTIC POTENTIAL OF PD2SN COMPOUNDS FOR ELECTROCHEMICAL HYDROGEN EVOLUTION REACTION	M.Sc	CHEMISTRY	Dr. ASHLY P. C.	Mr. SUNDAR PAVAN Mr. MAHESH B. V. Mr. ANAND B.
824.	47S_MSC_0056	PROTOTYPE OF MYCELIUM BASED MATERIAL - A PROSPECTIVE PACKAGING MATERIAL	M.Sc	MICROBIOLOGY	Prof. PUSHPA H. Prof. SAVITHA J.	Ms. MAITHRI D. B. Ms. SUMALATHA L. Ms. SHRUTHI A. S.
825.	47S_MSC_0136	A COMPARATIVE STUDY OF FRUIT WASTE COMPOST AND PARTHENIUM WEED WASTE COMPOST AS A VERMICULTURE OF EUDRILLUS EUGINEA AND THE EFFICACY OF VERMICOMPOST AS AN APPLICATION ON VEGETABLE CROPS - AN APPROACH OF MARKET WASTE MANAGEMENT AND WEED MANAGEMENT	M.Sc	MICROBIOLOGY	Dr. PRASANNA SRINIVAS R. Dr. NIMITA VENUGOPAL C.	Ms. PREETHI R. Ms. IPSHIKHA JOARDER Ms. SHAMITHA SHETTY P.
826.	47S_MSC_0061	REVOLUTIONIZING HAIR CARE: CREATING ECO FRIENDLY PROTEIN SHAMPOO AND CONDITIONER FROM REPURPOSED COOKING OIL TO COMBAT HAIR FALL AND ENHANCE SMOOTHNESS	M.Sc	ORGANIC CHEMISTRY	Dr. SHASHIDHAR BHARADWAJ S. Prof. DHANASHRI VAISHALI	Mr. PREMKUMAR K. Mr. LOHITH H. S. Mr. NANDEESHA K. N. Mr. AKSHAYKUMAR V.
827.	47S_MSC_0071	DEVELOPMENT AND EVALUATION OF NOVEL CURCUMIN ANALOGUES AS ANTI-CANCER AGENTS	M.Sc	ORGANIC CHEMISTRY	Dr. HAREESH KUMAR P. Dr. SOWBHAGYA R.	Ms. RESHMA BAI H. L. Ms. G. DEEKSHITA Ms. NIVEDITA VINOD KUDTALKAR Ms. AYESHA SIDDIQUA

105. M.S. ENGINEERING COLLEGE, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
828.	47S_BE_0057	AUTOMATED CARDIOVASCULAR DISEASE DIAGNOSIS USING HONEY BADGER OPTIMISATION WITH MODIFIED DEEP LEARNING MODEL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MALATESH S.H	Mr. IMRAN HUSSIAN Mr. NISHANT SINHA Mr. SHADIKUL ISLAM Mr. SHIVAM YADAV

829.	47S_BE_0065	RAILSAFE ALERT SYSTEM BASED ON IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. P. SUSHMITA SINGH	Mr. JAYANT KUMAR Mr. DEVESH KUMAR PACHAURI Mr. AJAY Mr. VAIBHAV PATIL
830.	47S_BE_0067	AGRICULTURAL CROPS PRICE PREDICTION SYSTEM USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MALATESH S.H	Ms. MANASA P. J. Ms. DEEKSHITHA S. Mr. JAYANTH H. M. Mr. NITHIN U.
831.	47S_BE_0093	PLANT RECOGNITION USING CNN AND GARDENING SUPPORT SYSTEM USING IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MALATESH S.H	Mr. ASHISH KUMAR D. Ms. TRIPTI KUMARI Mr. PRODDATUR NAGA VENKATA SHRAVAN
832.	47S_BE_0228	ELECTRONIC SHOES TO ASSIST VISUALLY CHALLENGED	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MALATESH S.H	Mr. AADITYA RAJ Ms. TASMIA KOWSAR Ms. TAHSEEN S.

106. M.S. RAMAIAH UNIVERSITY OF APPLIED SCIENCES, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
833.	47S_MSC_0077	SYNTHESIS OF NOVEL PYRIMIDINE TETHERED N-HETEROCYCLIC DRUG MOLECULE/S AS CRITICAL INHIBITOR(S) AGAINST HEP3B CANCER CELL LINE: MECHANISM OF ACTION AND DEVELOPMENT OF ADVANCED COMPUTATIONAL ALGORITHMS TO DISCRIMINATE ACTIVE AND INACTIVE ANTICANCER DRUG MOLECULES	M.Sc	CHEMISTRY	Dr. JYOTSNA KUMAR Dr. SUBARNA CHATTERJEE	Ms. AKSHARA R. Mr. MOHAMMAD SALMAN WANI
834.	47S_MSC_0081	DESIGN AND DEVELOPMENT OF PHYTOALEXIN EMBEDDED BIOCOMPATIBLE FILM WITH ENHANCED BIOAVAILABILITY FOR TOPICAL ADMINISTRATION: COMPREHENSIVE STUDY ON CHARACTERIZATION, THERAPEUTIC POTENTIAL, AND CYTOTOXICITY	M.Sc	CHEMISTRY	Dr. JYOTSNA KUMAR	Ms. PREETHA K. Ms. SATHYA P.
835.	47S_MSC_0131	PHENYL GLYCIDYL ETHER MODIFIED CARBON HYBRID SILICONE RUBBER NANOCOMPOSITE FOR THERMAL MANAGEMENT APPLICATION	M.Sc	CHEMISTRY	Dr. T. NIRANJANA PRABHU	Ms. SIYA Mr. PRAMOD HEGDE
836.	47S_MSC_0156	PHOTOCATALYTIC INVESTIGATION OF BIVO4/BIOBR/LFO MAGNETIC BASED TERNARY NANOCOMPOSITE AND BIODIESEL PRODUCTION FROM USED COOKING OIL	M.Sc	CHEMISTRY	Dr. N. MANIKANDA PRABU	Ms. DIYA ROSE DAVIS Mr. KETHERNATH R.
837.	47S_BE_1518	CONTEXT AWARE WEARABLE DIGITAL ASSISTANT FOR ASTRONAUTS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. JYOTHI A. P.	Mr. SHASHIDHAR Y. BHAT
838.	47S_BE_3858	ECODRIVE+: AUTONOMOUS ELECTRIC VEHICLE USING SOLAR TRACKER	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. PRAVEEN KUMAR VARANASI Dr. SHAMA RAVICHANDRAN	Mr. PUNITH RAJ J. S. Mr. NESAR G. GOWDA Mr. DHANRAJ M.
839.	47S_BE_3752	DEVELOPMENT OF OPTIMAL DISTANCE OF CONTACTLESS POWER TRANSFER FOR DYNAMIC CHARGING SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. L. S. PRAVEEN Mrs. ANUSHA VADDE	Ms. PURVI KOLHAR Ms. KRUTHIKA B. S. Ms. MEGHA Ms. SINDHU V.
840.	47S_MSC_0083	DEVELOPMENT OF DIABETIC FRIENDLY - MILLET BASED INSTANT SOUP POWDER INFUSED WITH EDIBLE MARINE SEAWEED	M.Sc	FOOD SCIENCE AND TECHNOLOGY	Dr. LOKESH RAVI	Ms. BANDLA HARI PRIYA
841.	47S_MBA_0183	MODELLING OF GREEN AND REVERSE SUPPLY CHAIN FOR SUSTAINABLE MANAGEMENT OF WHITE GOODS	MBA	HUMAN RESOURCE MANAGEMENT	Dr. USHA N. Prof. K. M. SHARATH KUMAR	Ms. R. VIJAYALAKSHMI Ms. SPARSHA K.
842.	47S_BE_4507	DESIGN AND DEVELOPMENT OF REMOTE OPERATED VEHICLE(ROV) FOR UNDEWATER APPLICATION	B.E.	MECHANICAL ENGINEERING	Mr. ABHILASH N. Dr. M. C. MURUGESH	Mr. DHEERAJ KUMAR C. V. Mr. ABHISHEK CHINCHOLE Mr. RAKSHITH RAJ B. Mr. YOUKTHIESHWAR H. S.

843.	47S_MBA_0185	DEVELOPMENT OF A COMPREHENSIVE DIGITAL PLATFORM (WEBSITE & MOBILE APPLICATION) TO PROMOTE JANAUSHADHI (GENERIC DRUGS) AMONG RURAL STAKEHOLDERS IN KARNATAKA	MBA	PHARMA BUSINESS MANAGEMENT	Dr. ANICAR D. MANAVI Prof. H. S. SRIVATSA	Ms. HARSHITHA N.
844.	47S_MTechAg_0001	GRAPHENE NANOPLATELET-LOADED DRUG DELIVERY SYSTEM FOR BREAST CANCER TREATMENT	M.Tech/ M. Sc (Agri)	PHARMACY	Dr. SANDHYA K. V.	Ms. TEJASWINI S. DHMADAR
845.	47S_MSC_0094	DEVELOPMENT OF NANOPARTICULATE CARRIERS OF A CITRUS BIOFLAVONOID FOR MANAGEMENT OF HEPATOCELLULAR CARCINOMA	M.Sc	PHARMACY	Dr. ASWATHI R HEGDE	Ms. ANUSHRI G.
846.	47S_MSC_0176	INVESTIGATION OF PHOTOCATYTIC ACTIVITY OF MnCO2O4/SnO2 NANOCOMPOSITE	M.Sc	PHYSICS	Dr. K. J. MALLIKARJUNIAH Dr. N. MANIKANDA PRABU	Ms. THEERTHA P. K.
847.	47S_MTech_0082	DESIGN AND DEVELOPMENT OF MOBILE ROBOT MEDICINE DELIVERY SYSTEM FOR THE GENERAL WARD OF THE GOVERNMENT HOSPITALS	M.Tech	ROBOTICS AND AUTOMATION	Dr. SURESH R.	Mr. RAKESHA SHARMA C. R. Mr. RAHUL G. Mr. JAGADEESH R. S. Ms. PRIYA V.

107. M.V.J. COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
848.	47S_BE_4908	SUSTAINABLE RECYCLING OF LITHIUM-ION BATTERIES: CATHODE REGENERATION BY HYDROTHERMAL RELITHIATION	B.E.	CHEMICAL ENGINEERING	Dr. M. VENKATA RATNAM Dr. M. VENKATA RATNAM	Ms. J. BENJAMIN TITUS Ms. AMISHA BIJU Ms. ARCHANA N. Ms. DEVIKA K.
849.	47S_BE_1997	CENTRALIZED TRACKED MOWER ROBOT WITH SOLAR POWER ASSISTANCE	B.E.	DATA SCIENCE	Dr. JASNA S. B.	Mr. SUMADHAVA ANAND GUDI Mr. SUDHANVA ANAND GUDI Mr. PRATHVIRAJ DEVADIGA Mr. SANGAMESH HEBBAL
850.	47S_BE_1728	DESIGN AND IMPLEMENTATION OF HYBRID CHARGING STATION FOR ELECTRIC VEHICLES	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. SHIMA RAMESH MANIYATH Ms. BINI BABU	Mr. HEMANTH M. Ms. POOJITHA T. N. Mr. SURAJ B. V.
851.	47S_BE_1733	DESIGN AND DEVELOPMENT OF AUTOMATED HYDROPONICS SYSTEM	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mrs. RENJINI E. NAMBIAR Dr. R. RAJARAJAN	Ms. YOGANA B. S. Mr. CHETAN RAO V. Ms. N. B. ASHWINI Ms. RAKSHITA R. K.
852.	47S_BE_1776	ACTIVE TEMPERATURE CONTROL OF LI-ION BATTERY	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. GAYATHRI R. Dr. V. R. RAJAN	Mr. TEEGESH T. R. Ms. K. SOUNDARYA SAGAR Mr. TAHIR ALI
853.	47S_BE_1910	MEDICAL WASTE SEGREGATION AND MANAGEMENT	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. RENUKAMBA J N Dr. M. ELENCHEZHIYAN	Ms. HARSHITA M. A. Mr. K. LIKITH PRASHANTH Mr. KEDAR K. B.
854.	47S_BE_1011	ROTATED SQUARE DIELECTRIC RESONATOR ANTENNA FOR RELIABLE DATA COMMUNICATION APPLICATION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr.L.David William Raj	Mr. MAYANK GANGWAR Mr. GURU PRASAD PANIGRAHI Mr. HARSHITH B. Mr. KIRAN GOWDA
855.	47S_BE_1564	ROBOTIC ARM GESTURE CONTROL	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. GEETHANJALI G. Prof. UTSAB BANARGEE	Mr. PRAJWAL B. Mr. MADAN K. M. Mr. P. PRATHYAKSH Mr. PRAJWAL K.
856.	47S_BE_1789	SOLAR POWERED AUTONOMOUS LAWN MOWER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. L. DAVID WILLIAM RAJ	Ms. KEERTHANA B. Ms. KUSUMA N. Ms. LAVANYA M. S. Mr. BRITNEY NAOMI MANNAS
857.	47S_BE_3159	ADVANCED DRIVING SIMULATOR WITH KINEMATIC FEEDBACK	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. L. DAVID WILLIAM RAJ	Mr. ALLWIN JOSEPH Ms. DELIN JOSE Mr. ABDUL MALIKH T. K. Mr. AVINASH M.
858.	47S_BE_2144	AI BASED MULTI DISEASE DETECTION USING MACHINE LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. JASNA S. B.	Mr. VINOD KUMAR R. Mr. MOHAMMED ZUBAIR PASHA Mr. VISHNU PRASAD Mr. RAHUL

108. MAHARAJA INSTITUTE OF TECHNOLOGY, MYSURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
859.	47S_BE_4396	SUSTAINABLE UTILIZATION OF STEEL SLAG AND TITANIUM GYPSUM AS GRANULAR COLUMN FOR GROUND IMPROVEMENT IN GEOTECHNICAL PROJECT	B.E.	CIVIL ENGINEERING	Prof. VARUN S.	Mr. HEMANTH KUMAR M. S. Mr. AMRUTH RAJ B. R. Mr. DARSHAN R. Mr. MOHAMMED MUJAMIL ALI
860.	47S_BE_4895	SMART APP FOR MULTILINGUAL SYMBOL TRANSLATION OF PUBLIC TRANSPORT SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. RANJITH K. C. Prof. SANTOSH E.	Ms. VANDANA N. S. Ms. AKARSHITHA P. GOWDA Mr. HRUDAY M. Mr. MOHITH GOWDA K. T.
861.	47S_BE_5014	REPORTING AND MONITORING TOOL FOR SAFETY AGAINST RAGGING AND HARASSMENT USING ML	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NANDA KUMAR R. B.	Ms. VANDANA D. M. Ms. ANUSHREE S. R. Ms. CHRIS SUZAN A. Mr. ABHISHEK S.
862.	47S_BE_2032	INTRACRANIAL PRESSURE MONITORING SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. CHAITRASHREE R.	Ms. AISHWARYA C. Ms. ADITHI C. Ms. CHITRA G. Ms. SUBRAMANYA P.
863.	47S_BE_2067	AUTOMATIC DETECTION CONTROLLING AND MONITORING OF TEMPERATURE IN SERICULTURE USING IOT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SMITHASHREE K. P.	Ms. THOSHINY CHAWAN M. Ms. VARSHINI Y. R. Ms. BHOOMIKA H. Ms. HEMA KIRANA M.
864.	47S_BE_2432	SMART DEVICE FOR FARMERS TO DETECT SNAKES IN FARMLAND	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. AJAY KUMAR B. R.	Ms. KUSUMA M. S. Mr. GOKUL M. Mr. ARJUN M. S. Mr. DARSHAN R.

109. MAHARAJA INSTITUTE OF TECHNOLOGY, NANJANGUD TALUK, THANDAVAPURA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
865.	47S_BE_2704	EVALUATION OF ACOUSTIC CAPABILITIES AND AFFORDABILITY OF A SUSTAINABLE ALTERNATE TO TRADITIONAL ACOUSTIC PANELS	B.E.	CIVIL ENGINEERING	Prof. ROHITH JAIN Dr. B. C. NAGENDRA PRASAD	Ms. HAMSAVI V. S. Mr. ANKITH GOWDA Y. Mr. AKSHAY KUMAR D. M.
866.	47S_BE_2738	STUDY ON MECHANICAL PROPERTIES OF CONCRETE USING COPPER SLAG AND SILICA FUME AS PARTIAL REPLACEMENT TO FINE AGGREGATE AND CEMENT	B.E.	CIVIL ENGINEERING	Prof. AKSHAY N. K. Dr. B. C. NAGENDRA PRASAD	Ms. SUSHMITHA Mr. DARSHAN H. V. Mr. NIKHIL K. G. Mr. APPU R.
867.	47S_BE_2793	DESIGN OF LOW-COST WATER FILTER USING SUGARCANE BAGASSE AND AYURVEDIC HERBS FOR RURAL AREA - AN ALTERNATIVE APPROACH AT CONSUMER END	B.E.	CIVIL ENGINEERING	Dr. B. C. NAGENDRA PRASAD	Ms. PRIYANKA V. NAIK Mr. GAGAN S. Ms. BHOOMIKA S. Mr. CHANDAN P.
868.	47S_BE_0596	IOT BASED MILK ADULTERATION DETECTION AND IDENTIFICATION OF A1 AND A2 TYPE MILK	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ASHWINI P.	Ms. PREETHI K. D. Mr. KARTHIK G. T. Ms. R. VAISHNAVI Ms. TEJAS K.
869.	47S_BE_0627	IOT BASED SOLAR PANEL CLEANING ROBOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ASHWINI G.	Mr. RAVICHANDRAN T. S. Mr. MOHAMMAD RUMAN BAIG MR. SRI RAM A S Mr. SACHIN PATEL K.
870.	47S_BE_0841	SMART READER FOR VISUALLY IMPAIRED USING RASPBERRY PI	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SUHASINI	Mr. RAHUL M. R. Mr. AKHILESH N. Mr. HARSATH V. Mr. NIKHIL S.
871.	47S_BE_0669	TRAFFIC SIGNAL VIOLATION AVOIDANCE SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING - INFORMATION SECURITY	Prof. BHARATH BHARADWAJ B. S.	Ms. RESHIKA RAJESH K. Ms. CHAITRA B. S. Mr. DAMAN MEDAPPA S. S. Ms. GAGANA J.
872.	47S_BE_1620	FABRICATION AND STUDY OF CRAB SHELL POWDER REINFORCED POLYMER COMPOSITE TO MANUFACTURE LOWCOST AUTOMOTIVE PARTS	B.E.	MECHANICAL ENGINEERING	Dr. T. VENKATE GOWDA	Mr. NANDISH M. Mr. RAGHAVENDRA Mr. AMITH GOWDA N. T. Mr. DARSHAN Y. K.

110. MAHARANI LAKSHMI AMMANNI COLLEGE FOR WOMEN AUTONOMOUS, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
873.	47S_MSC_0153	WASTE TO BEST: AMALGAMATED BAMBOO CHARCOAL AS A LOW-COST ABSORBENT FOR WASTE-WATER TREATMENT	M.Sc	BIOCHEMISTRY	Dr. USHA T. Dr. SUSHIL KUMAR MIDDHA	Ms. LATHA K. Ms. ASHIKA HUBLI Ms. M. PRANATHI Ms. MEGHANA M.
874.	47S_MSC_0191	DEVELOPMENT OF SUSTAINABLE ZnO - NANOPARTICLE BASED BIOCOMPOSITE FILM USING NANOCELLULOSE, TARO MUCILAGE AND BLACK CUMIN SEED OIL-AN APPLICATION IN PACKAGING OF GRAPES	M.Sc	BIOTECHNOLOGY	Dr. BABITHA B. Dr. KUSHALATHA M.	Ms. MADHUSHREE M. Ms. KANCHANA S. Ms. DEEKSHITHA B. K. MS.SUSHMA N

111. MALNAD COLLEGE OF ENGINEERING, HASSAN

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
875.	47S_BE_**4279**	APPLICATION OF MACHINE LEARNING ALGORITHM IN PREDICTING GROUNDWATER POTENTIAL ZONES	B.E.	CIVIL ENGINEERING	Prof. MADHUSHREE C.	Mr. DHANUSH H. V. Ms. GAGANA K. V. Mr. AKASH V. GOWDA Ms. DARSHINISHREE K.
876.	47S_BE_3475	CROWD TRACKING USING OPTICAL FLOW METHOD FOR VIDEO SURVEILLANCE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. KEERTHI D.S.	Mr. A. SHASHANK BHARADWAJ Mr. ABHISHEK K. S. Mr. JEEVAN H. V. Mr. ABHISHEK N. P.
877.	47S_BE_1975	SOLAR POWERED MULTIPURPOSE AUTONOMOUS AGRICULTURAL ROBOT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. SUDARSHAN G. K. Mr. NITHIN K.	Ms. NISARGA M. P. Ms. GOWTHAMI D. N. Ms. ANANYA J. R. Ms. KEERTHANA H. B.
878.	47S_BE_2336	AN AI ENABLED SYSTEM TO DETECT POTATO DISEASE	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. CHANDRIKA J.	Ms. LAHARI B. S. Mr. MOHITH H. A. Mr. NITHISH SAGAR D. Mr. RISHAB NANDAN B. R.
879.	47S_BE_3480	SIGNSPEAK: BRIDGING COMMUNICATION THROUGH DEEP LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. SHRUTHI D. V.	Mr. SANDEEPA T. N. Mr. SATHVIK RAO Mr. KEERTHAN V. Mr. ANIRUDHA R.
880.	47S_BE_0792	EXPLORING MECHANICAL AND TRIBOLOGICAL BEHAVIOUR OF ARAMID FIBER-BASED PHENOLIC COMPOSITES WITH GR/AL FILLERS FOR POTENTIAL AUTOMOTIVE BRAKE PAD APPLICATIONS	B.E.	MECHANICAL ENGINEERING	Dr. MADHU P. Dr. YASHAS GOWDA T. G.	Mr. ABHISHEK S. J. Mr. YASHWANTH P. D. Mr. NISCHAY N. K. Ms. SHANMUKHI H. D.

112. MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOODBIDRI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
881.	47S_BE_2263	HARNESSING OF SOLAR AND WIND ENERGY USING OPTIMIZED TURBINE MILL THRIUGH CFD AND IOT	B.E.	AERONAUTICAL ENGINEERING	Dr. ANAND S. N.	Mr. NIRAJ PRABHU Mr. SIDHARATH DEMBI Ms. DISHA V. S. Mr. KIRAN H BAILAPATTAR
882.	47S_BE_2288	CONCEPTUAL DESIGN OF BATTERY CHARGER FOR ERGONOMIC SEAT IN AIRCRAFT	B.E.	AERONAUTICAL ENGINEERING	Dr. ANAND S. N.	Ms. KAVYA M. Mr. MIR UZAIR AKBAR Mr. TUSHAR Mr. VARSHITH V. SHETTY
883.	47S_BE_2320	DESIGN AND DEVELOPMENT OF LIGHTER THAN AIR HYBRID POWER GENERATION SYSTEM FOR ELECTRIC VEHICLE CHARGING	B.E.	AERONAUTICAL ENGINEERING	Mr. AJITH KUMAR Dr. Y. SHRIRAJ RAO	Ms. DIYAN RIYA MARTIS Mr. ABDUL RAZZAK SHAIKH Ms. SUVISHMA S. M. Ms. NEHA
884.	47S_BE_2391	SOLAR-POWERED PESTICIDE SPRAYING DRONE COTS	B.E.	AERONAUTICAL ENGINEERING	Mr. VIVEK SAMUEL Dr. SUJESH KUMAR	Ms. DEEKSHA R. BHANDHARI Mr. AKSHAY NAIK Ms. AFIFA FATHIMA BEGUM Mr. B MOHAMMED SHAHIQ
885.	47S_BE_2595	FAULT DIAGNOSIS AND CLASSIFICATION OF AIRCRAFT STRUCTURAL WING USING MACHINE LEARNING	B.E.	AERONAUTICAL ENGINEERING	Dr. SUJESH KUMAR	Ms. AKSHITHA P. L. Mr. BHAVAN H. V. Ms. KIRANA I. P. Mr. SATHVIK KUMAR K.

886.	47S_BE_2954	DEVELOPMENT OF A PROTOTYPE OF SMART AGRIVOLTAICS SYSTEM FOR ENHANCING LAND USE EFFICIENCY AND REVENUE OF FARMERS	B.E.	AERONAUTICAL ENGINEERING	Mr. AJITH KUMAR	Mr. HRITHVIK SHETTY Mr. PRATHAM JAIN Mr. DARSHAN KUMAR SHETTY Mr. NACHIKETH
887.	47S_BE_2112	AIR POLLUTION CONTROL OF FISH MEAL & OIL INDUSTRY USING BIO-FILTERS	B.E.	CIVIL ENGINEERING	Dr. JAYAPRAKASH M. C. Dr. VINEETHA TELMA D'SOUZA	Mr. VISHNU Mr. PREETHAM NAIK M.
888.	47S_MCA_0072	AUTOMATED LIBRARY SYSTEM FOR BOOK ISSUE OR BORROW THROUGH FACE RECOGNITION AND BARCODE SYSTEM	M.C.A.	COMPUTER APPLICATIONS	Dr. ANUSHREE RAJ Dr. MADHWARAJ K. G.	Ms. MADHUSHREE KULKARNI Mr. MANOJ N. Ms. MAHALE DIKSHA CHANDRAKANT
889.	47S_MCA_0092	AN IOT BASED AUTOMATED TRAFFIC LIGHT PROCESSING SYSTEM ON DETECTING AN AMBULANCE IN TRAFFIC	M.C.A.	COMPUTER APPLICATIONS	Dr. ANUSHREE RAJ Dr. MADHWARAJ K. G.	Ms. SHAMITHA S. HEGDE Ms. AKSHATHA N. K. Ms. KSHAMA DEVADIGA Ms. M. MEHIKA RAI
890.	47S_BE_0909	A DEEP LEARNING APPROACH TO DETECT RHEUMATOID ARTHRITIS USING X-RAY IMAGES AND BIO-MARKERS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PRADEEP B. S.	Mr. SOURABH P. Mr. SHREYAS Ss TANTRI Mr. SHREYAS SHETTY B. Mr. VINAYAK NAYAK N.
891.	47S_BE_0964	DETECTION OF ISCHEMIC STROKE USING DEEP LEARNING TECHNIQUES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PRADEEP B. S.	Mr. HEGDE SUMANTH SHYAM Ms. PUSHPA MANGAL GOND Mr. RATHAN S. R. Ms. RUCHITHA R.
892.	47S_BE_1623	EFFECTIVE MILK GRADING AND BILLING SOLUTION FOR DAIRY INDUSTRY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. AMRUTHA	Mr. SHIVARAJ SHETTY Mr. RANJITH SHETTY Mr. RAO SURAJ NAGESH Mr. SHIVA JANARDHAN PATANKAR
893.	47S_BE_3518	A DEEP LEARNING APPROACH TO DETECT CANCER IN CIRRHOTIC LIVER	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. VIJAYANANDA V. MADLUR	Ms. RAKSHA NAYAK Mr. SANKALP SANTOSH NAIK Ms. SANNIDHI B. M. Mr. TEJASWINI PEERU GOUDA
894.	47S_BE_3593	BREAST TUMOR SEGMENTATION AND CLASSIFICATION USING ULTRASOUND IMAGES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. DINESHA L.	Mr. VAIBHAV R. JADHAV Ms. DEEPIKA Mr. MOHAMMAD SHIHABUL FAIEZ Ms. DEEKSHA PRABHU
895.	47S_BE_3617	DEEP LEARNING BASED WHITE BLOOD CANCER DETECTION IN BONE MARROW USING HISTOPATHOLOGICAL IMAGES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. SUNITHA N. V.	Mr. PRANAV JOSHI Mr. RAKESH KUMAR Ms. RAKSHA SHETTY Ms. RAKSHA M. SUVARNA
896.	47S_BE_2439	AQUASAFE - A PORTABLE WATER QUALITY MONITORING AND PATHOGEN DETECTION SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SATHISHA	Mr. DHANUSH Ms. ALZUHA Ms. MEGHANA NAIK
897.	47S_BE_3922	SEWAGE PIPE CRAWLING ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SRI KRISHNA SHASTRI C.	Mr. RANJAN Mr. NISAR AHMED Mr. ABHIJITH M. NAIK Mr. ADITHYA BHAT
898.	47S_BE_4812	ESTIMATION OF WATER FOOTPRINT FOR DOMESTIC AND COMMERCIAL PURPOSE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. DONY ARMSTRONG DSOUZA	Mr. AKASH Ms. K. ANNAPOORNA KAMATH Ms. KEERTHI S. M.
899.	47S_BE_5098	ENERGY MANAGEMENT SYSTEM FOR ELECTRIC VEHICLES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. RANJITH H. D.	Mr. RUCHIRA R. Ms. SUMANA Ms. RASHMITHA Ms. RAKSHITHA JAIN
900.	47S_BE_4195	GLAUCOMA DETECTION USING MACHINE LEARNING WITH OCT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. SHARATH KUMAR	Mr. ATHIK REHAMAN Mr. LATHESH KUMAR Mr. MAYUR S. KARKERA MOHAMMED MUNEEF
901.	47S_BE_4825	CROP CARE - A WEB APPLICATION FOR CROP MANAGEMENT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. SREEJA RAJESH	Ms. SMRUTHI POOJARY Mr. SUMANTH SHETTY Mr. WAISF AHMED
902.	47S_MBA_0087	ENHANCING HEALTHCARE SERVICES IN RURAL AREAS THROUGH PRIMARY HEALTHCARE CENTERS (PHC) IN DAKSHINA KANNADA DISTRICT	MBA	MBA	Dr. SHREEKANT G. NAIK	Mr. VENKATARAMANA Ms. SHETTY ASHVITA KRISHNA Mr. VITHIESH K. Ms. NEESHMA M. G.
903.	47S_MBA_0090	A STUDY ON THE ECONOMIC VIABILITY OF CONVERSION OF WASTE ENGINE OIL	MBA	MBA	Prof. AKSHATHRAJ JAIN	Mr. P. DEEPAK Mr. NISHCHITH Mr. NIKSHEPA K. S.

		COLLECTED FROM HARBORS OF THE COASTAL KARNATAKA INTO BIO FUEL.				
904.	47S_BE_2657	DEVELOPMENT AND IMPLEMENTATION OF A ROBUST ROLLCAGE SYSTEM FOR ENHANCED SAFETY	B.E.	MECHANICAL ENGINEERING	Prof. SWAROOP GANNAMANI	Mr. SHREYAS TANDEL Mr. SHARUN MOHAN P. Mr. K. V. ABHISHEK

113. MANIPAL INSTITUTE OF TECHNOLOGY, MAHE, MANIPAL

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
905.	47S_BE_5383	OPTIMISATION OF BIOGAS PRODUCTION USING SOLAR ENERGY	B.E.	CHEMICAL ENGINEERING	Dr. GAUTHAM JEPPU	Mr. VIKAS MALI PATIL Mr. ADITYA SHETTY

114. MOODLAKATTE INSTITUTE OF TECHNOLOGY, UDUPI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
906.	47S_BE_2905	A STUDY ON LATERITE CONCRETE BLOCK SOAKED WITH CEMENT SLURRY	B.E.	CIVIL ENGINEERING	Dr. RAMAKRISHNA HEGDE	Mr. PRATHAM Ms. ASHITHA Mr. MANJUNATH Ms. POOJA
907.	47S_BE_4346	CENTRALIZED MONITORING SYSTEM FOR STREET LIGHT FAULT DETECTION AND LOCATION TRACKING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. SOOKSHMA ADIGA Mrs. AKSHATHA NAIK	Ms. VAISHNAVI K. Ms. POOJA V. Ms. PRIYA PATANAKAR
908.	47S_BE_4633	SMART BIKE ACCIDENT DETECTION USING BLACK BOX	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. VISHWANATH SHERVEGAR Mr. VARUN KUMARA	Ms. SINCHANA S. Ms. MEGHANA Ms. SOWNDARYA S.
909.	47S_MBA_0129	EMPOWERING EDUCATION: A PERSONALISED SCHOLERSHIP APP	MBA	MBA	Mrs. THILAKALAXMI Ms. KAVYA	Mr. MULLA SAMEER Mr. FAYEEZ Mr. MUSTHAIN SHARIEF

115. MOUNT CARMEL COLLEGE AUTONOMOUS, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
910.	47S_MSC_0173	EXPLORING THE HYPOGLYCEMIC POTENTIAL OF DATE SEED FLOUR (PHOENIX DACTYLIFERA L.) THROUGH IN VITRO METHODS AND PRODUCT INNOVATION	M.Sc	BIOCHEMISTRY	Dr. MYRENE ROSELYN DSOUZA Dr. SHARANGOUDA J. PATIL	Ms. PRANJALI SHARMA Ms. NOOR ARSHIYA FIRDOSE

116. N.I.E. INSTITUTE OF TECHNOLOGY, MYSURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
911.	47S_BE_1498	KANNADA LANGUAGE GENERATIVE AI FOR FARMERS REVOLUTIONIZING AGRICULTURE WITH A VISION-ENABLED MULTIMODEL USING OPEN-SOURCED LARGE LANGUAGE MODEL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. GOWTHAM M.	Mr. V. PRAJWAL Ms. BHAGYA RASHI Ms. HIBA TAJ KHURAISHI Mr. SAYED MANSOOR
912.	47S_BE_3530	TREE CLIMBING ROBOT WITH PESTICIDE SPRAYING AND VIDEO STREAMING IN REAL TIME USING MICROCONTROLLER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. PUSHPALATHA H. P. Dr. MANJULA A. V.	Mr. CHANDRASHEKAR G. Y. Ms. GANAVI S. K. Ms. AFSA BANU Mr. BHARATH RAJ K.
913.	47S_BE_4393	IOT BASED SMART MEDICINE BOX	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. RAGHAVENDRA M. Dr. MANJULA A. V.	Mr. DILEEP V. RAJU Ms. KEERTHI A. PAI Mr. PAVAN N. Ms. YADUKUMARI U. N.
914.	47S_BE_4893	AUTOMOBILE BLACKBOX SYSTEM FOR ACCIDENT ANALYSIS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. MANJULA A. V.	Ms. HARSHITHA C. Ms. SAHANA S. Ms. SHRAVANA K.
915.	47S_BE_3943	SECRET FRAGMENT VISIBLE MOSAIC IMAGE TRANSMISSION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. HARISH S. V. Dr. MANJULA A. V.	Ms. SINCHANA H. S. Mr. SANJAY GALI Mr. ABHISHEK J. C. Ms. SPOORTI Y.

117. N.M.A.M. INSTITUTE OF TECHNOLOGY, NITTE

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)

916.	47S_BE_3732	DESIGN OF MINIATURE PROTOTYPE FOR ORGANIC WASTE BASED COMPRESSED BIOGAS PRODUCTION AND PURIFICATION	B.E.	BIOTECHNOLOGY	Dr. SANTHOSH POOJARY	Mr. AKSHAY KAMATH Mr. SHAMANTH KRISHNA Mr. SHANNON FERNANDES Mr. VADIRAJ M.
917.	47S_BE_3739	DESIGN AND CONSTRUCTION OF WAVEFORM BIOREACTOR FOR CYANOBACTERIAL GROWTH	B.E.	BIOTECHNOLOGY	Dr. VENKATESH KAMATH H.	Ms. N. G. PRATHIKSHAA Ms. BRINDA C. MENDON Ms. MEGHA Ms. PRATHIKSHA N. SHETTY
918.	47S_BE_5091	ECO-FRIENDLY SUSTAINABLE CLADDING TILES USING RECYCLED PLASTIC WASTE WITH PARTIAL REPLACEMENT OF FOUNDRY SAND	B.E.	CIVIL ENGINEERING	Dr. BHOJARAJA B. E.	Mr. VAIBHAV K. VIDYAPATI Mr. RUSHYANTH T. G. Mr. SHASHANK S. AMBIG Mr. SANJAY ANAND G.
919.	47S_BE_5287	HARNESSING AGRICULTURAL RESIDUES INDUSTRY-INTEGRATED ELECTRONIC SOIL REMEDIATION SUSTAINABLE SOLUTIONS FOR HEAVY METAL CONTAMINATION INCLUDING CHROMIUM, CADMIUM, LEAD	B.E.	CIVIL ENGINEERING	Mrs. DEEKSHITHA K.	Mr. VARUN KUMAR S. Mr. MANJUNATH Mr. PRAJWAL K. Mr. UMESH M. A.
920.	47S_BE_2357	LAND REGISTRATION USING BLOCKCHAINE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. AKHILRAJ V. GADAGKAR	Mr. VISHAL GOPICHAND PAWAR Mr. VINEETH VINAYAK M. H. Mr. ANEESH SUNDARESH Mr. SIDDHANTH SUVARNA
921.	47S_BE_2698	AI PARKING SPOT DETECTOR	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SUDEEPA K. B.	Mr. SHARAN M. SHETTY Ms. SANNIDHI SHETTY Ms. NIRUPAMA G. N. Ms. MANUSHREE S. AMIN
922.	47S_BE_2794	TULIPU, A DIGITAL PLATFORM FOR PROMOTING TULU CULTURE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. RAGHUNANDAN K. R. Dr. RADHAKRISHNA DODDMANE	Mr. SUVITH KUMAR Mr. ADARSH J. SHETTY Mr. AMITH JAGANNATH SOORENJI Mr. PRATHIK K. ACHARYA
923.	47S_BE_3457	DISPLACEMENT POWER FACTOR CORRECTION USING REACTIVE POWER COMPENSATION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. DINESH SHETTY	Mr. KANZAL HAQ A. Mr. AKASH P. Mr. SHREYAS S. Ms. GEETHANJALI S.
924.	47S_BE_1403	GALVANIC SKIN RESPONSE (GSR) BASED EMOTIONAL STATE EXAMINATION AND BIOFEEDBACK FOR WELL-BEING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. DURGA PRASAD	Mr. VARUN B. GATTI Mr. SRAJAN R. Mr. SUSHAN KOTIAN Mr. SUSHEEL CHETAN SHETTY
925.	47S_BE_0714	OBJECT DETECTION GLASSES WITH ADAPTIVE ENVIRONMENT SENSING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. ABHISHEK S. RAO	Mr. UTKARSH Mr. HARSH KUMAR Mr. DARSHAN S. Mr. ROHAN ARYA A. R.
926.	47S_BE_3071	360 DEGREE FIRE PROTECTION SYSTEM	B.E.	MECHANICAL ENGINEERING	Dr. MALLIKAPPA	Mr. GLANCY GEORGE FERNANDES Mr. NITISHKUMAR SHRIKANT NAIK Mr. GAUTHAM S. MESTA Mr. NIHAL NAGARAJ SHET

118. N.M.K.R.V COLLEGE FOR WOMEN, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
927.	47S_MSC_0165	IDENTIFICATION AND CHARACTERISATION OF A PHOSPHATE SOLUBILISING ACTIVITY IN MORINGA LEAVES	M.Sc	BIOTECHNOLOGY	Dr. VINITA BALASUBRAMANYA	Ms. SEEMA S.
928.	47S_MSC_0193	STUDIES ON CYTOKINE PRODUCTION BY T LYMPHOCYTES TRIGGERED BY URUSHIOLS FROM RHUS TOX TINCTURES	M.Sc	BIOTECHNOLOGY	Dr. VINITA BALASUBRAMANYA	Ms. MUSSRATH MUKTHAR Ms. FALKIYA TARANUM
929.	47S_MSC_0124	ELECTROCHEMICAL DETECTION AND DEGRADATION OF HEAVY METAL IONS IN INDUSTRIAL EFFLUENT USING CONDUCTING POLYMER BASED NANOCOMPOSITE AND NANOADSORBENT	M.Sc	CHEMISTRY	Dr. ROOPA D. L.	Ms. JEEVITHA M. Ms. NANDANA V. A. Ms. HARSHITHA N. Ms. RAMYA N.
930.	47S_MSC_0133	ENHANCING CROP YIELD PREDICTION THROUGH	M.Sc	DATA SCIENCE	Prof. DEEPALAKSHMI R.	Ms. KAUSER NISSAR T. P.

		MACHINE LEARNING TECHNIQUES				Ms. ASHWITHA M. R. Ms. SHAZIYA SULTANA

119. NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
931.	47S_BE_2457	RAILWAY TRACK CRACK DETECTION SYSTEM	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. R. VIJAYANAND Dr. RASHMI P. KARCHI	Ms. RACHANA A. Ms. VARSHINI K. S. Ms. PREETHI A.
932.	47S_BE_5032	DETECTION OF SICKLE CELL ANEMIA USING DEEP LEARNING TECHNIQUES	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. PRATHIBHA B. N. Dr. RASHMI P. KARCHI	Mr. KARTHIK SHREEVATSHA P. Mr. U. DURGA LOKESH Mr. YASHAS C.
933.	47S_BE_3988	EFFECTIVE UTILIZATION OF SEQUENTIAL BATCH REACTOR SLUDGE AS SUSTAINABLE GREEN PLASTERING MATERIAL.	B.E.	CIVIL ENGINEERING	Mrs. VIDYASHREE M. Ms. VIDYASHREE M. G.	Mr. VARUN B. B Mr. CHETHAN H. M. Mr. DHANUSH C.
934.	47S_BE_5360	CORROSION EVALUATION OF STEEL REINFORCEMENT EMBEDDED IN ALKALI ACTIVATED COMPOSITE SUBJECTED TO AGGRESSIVE ENVIRONMENT.	B.E.	CIVIL ENGINEERING	Dr. NAGARAJ V. K.	Mr. JITMAL KUMAR BHARTI Mr. S. SUHAS REDDY Mr. KAIPA SHASHANK Mr. ABDUL NABI B.
935.	47S_BE_2503	IMPLEMENTATION OF DUST CLEANING ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. H. VENKATESH KUMAR	Mr. AKASH KUMBAR Mr. ARUNKUMAR N. Mr. CHETHAN NAIK L. Ms. N. HEMA LATHA
936.	47S_BE_2889	IOT BASED ECG AND VITALS HEALTHCARE MONITORING ROBO	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. VINAY N. A.	Ms. SANGHAVI D. B. Ms. ARCHANA Ms. MIZBA FARAZ Ms. SUPRITA
937.	47S_BE_3428	DESIGNING OF MIMO ANTENNA FOR SIGNAL BOOSTER DEVICE TO ENHANCE THE SIGNAL CONNECTIVITY IN RURAL AREAS.	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. VIVEK SINGH	Mr. NASEER ULLA KHAN Mr. RAHUL YADAV Ms. PRIYANKA R. Ms. GOWTHAMI L. R.
938.	47S_BE_2232	ADVISORY SYSTEM FOR FINANCIAL INVESTMENT FORECASTING AND VISUALIZATION FOR STOCK MARKET	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. ANKITA SHUKLA	Mr. MADAN MOHAN Mr. MOHAMMED NUMAN SHARIFF Mr. NALLAPAREDDY GARI KIRAN KUMAR REDDY Mr. K. V. SANJAY REDDY
939.	47S_BE_2449	IMAGE FORGERY DETECTION BASED ON LIGHTWEIGHT DEEP LEARNING MODELS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. MOHAN D. N.	Ms. HARSHITHA K. N. Mr. HEMANTH G. M. Mr. J. KIRAN Ms. PREKSHA C. P.
940.	47S_BE_2481	DESIGN AND DEVELOPMENT OF IOT ENABLED SMART HEAD MASSAGER DEVICE	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. RAMESH M. KAGALKAR	Mr. BHARATH G. Ms. ANKITHA G. S. Ms. DIKSHITA CHILUKUR Ms. JEEVA H. R.

120. NAGARJUNA COLLEGE OF MANAGEMENT STUDIES, CHIKKABALLAPUR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
941.	47S_MCA_0044	NLP DRIVEN - KANNADA TITLE GENERATOR USING BERT / RNN	M.C.A.	COMPUTER APPLICATIONS	Mr. AJITH S.	Mr. SANJAY S.
942.	47S_MBA_0169	A STUDY ON THE AFFORDABILITY AND AVAILABILITY OF ADVANCED TREATMENTS FOR CHRONIC DISEASES IN RURAL POPULATION	MBA	FINANCE	Dr. ABRAHAM VARUGHESE	Ms. HARSHITHA G. R. Mr. RANJITH B. N. Mr. PUNEETH L. Mr. RAKSHITH D. H.
943.	47S_MBA_0051	SCOPE OF GENERATING AND USING BIOGAS IN RURAL AREAS	MBA	MBA	Mr. RAKSHITH GOWDA K. M.	Mr. CHANDAN N. Mr. THOUSIF PASHA H. S. Mr. DAYANANDA SAGAR A. C. Mr. VENU M. V.
944.	47S_MBA_0088	A STUDY ON AWARENESS OF POST HARVESTING AGRICULTURAL PROCESS TO REDUCE CARBON FOOTPRINT	MBA	MBA	Mr. GIRISH KUMAR H. V.	Mr. UMESH N. Mr. NITHIN GOWDA C. Ms. LIKITHA H. P. Mr. SUPRITH S.

121. NAGARJUNA DEGREE COLLEGE SCHOOL OF MANAGEMENT, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
945.	47S_MBA_0040	SUSTAINABLE DREAMS; A SMART REDEVELOPMENT OF BANGALORE SLUM'S	MBA	MBA	Dr. VIJAYAKUMAR R. S. Dr. HARISH BABU S.	Ms. VARSHINI G. REDDY Ms. KAVYA C. N. Ms. TULASI G. Ms. SWATHI M.

122. NAVKIS COLLEGE OF ENGINEERING, HASSAN

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
946.	47S_BE_1423	WASTE GLASS POWDER AND NATIVE RICE STRAW UTILIZATION IN GREEN COMPOSITE CEMENT BRICKS	B.E.	CIVIL ENGINEERING	Mrs. BANDHAVYA G. B.	Ms. NISHITHA M. R. Ms. VARSHITHA SHANKAR T. S. Ms. SRUSTI T. K.
947.	47S_BE_2530	VISION BASED IDENTIFICATION OF HALLIKAR AND AMRUTHMAHAL BREED USING SOFT COMPUTING TECHNIQUES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MAHANTESH C. ELEMMI	Ms. BINDUSHREE G. E. Ms. AISHWARYA J. N. Ms. CHAAYAA H. K. Ms. RAKSHITHA H. S.
948.	47S_BE_2814	PATIENT FLOW NET	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. MEGHASHREE D. P.	Ms. ALISHBA SHARIEF.H Ms. SANA ZAINAB
949.	47S_BE_4661	IMAGE BASED TENTATIVE DIAGNOSIS OF CRD DISEASE IN POULTRY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MAHANTESH C. ELIMMI Dr. HEMANTH GOWDA K.	Ms. THEJASWINI H. M. Ms. NAVYATHA C. N. Ms. RAKSHITHA G. Ms. SNEHA K. P.
950.	47S_BE_4810	DETECTION OF UNAUTHORIZED HUMAN ENTITY IN SURVEILLANCE VIDEO	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SATHISHA M. S.	Mr. PRASHANTH GOWDA A. S. Mr. DARSHAN H. M. Mr. SRUJITH G. L. Mr. VENU H. K.
951.	47S_BE_2055	A SMART NECK WEAR FOR TRACKING CANINE WELFARE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. NAZIYA FARHEEN H. S.	Ms. PRIYADARSHINI K. S. Ms. MANYA S. GOWDA Ms. SHIVANI L. S. Ms. PRIYANKA H. S.

123. NAVODAYA INSTITUTE OF TECHNOLOGY, RAICHUR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
952.	47S_BE_4665	WASTE TO WEALTH: SILICA EXTRACTION AND BIO-COAL GENERATION FROM RICE HUSK ASH FOR SUSTAINABLE WASTE MANAGEMENT	B.E.	MECHANICAL ENGINEERING	Dr. ZEESHAN ALI Dr. P. RATHNAKUMAR	Mr. MOHAMMED BILAL Mr. MOHAMMED NASHID ALI Mr. MOHAMMED AMAIR SOHAIL

124. NEW HORIZON COLLEGE OF ENGINEERING, BENGALURU

Sl. No	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
953.	47S_BE_0783	ANIMEA DETECTION USING MACHINE LEARNING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Mr. RAMESHPRASAD R. Ms. RAJASREE R. S.	Mr. KAKARLA LINGESWAR BALAJI Mr. KATAKAM DATTA RAM VIVEK Mr. A. CHETU CHANDHAN Mr. P. SANJAY REDDY
954.	47S_BE_0790	ANDROID APPLICATION FOR REAL-TIME CHILD MONITORING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	MS. SANDYARANI V Dr. UMAMAHESWARAN S.	Ms. MOUNIKA TEPPOLA Ms. BHAVNA BRAHMA Ms. DIMPLE K CHOUDHARY Mr. KEERTI SAI NAIDU
955.	47S_BE_0824	PRODUCT RECOMMENDATIONS USING BODY MEASUREMENT	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. RAMESH PRASAD Dr. UMAMAHESWARAN S.	Mr. K. VAMSHIVARDHAN Mr. PUNEET VERNEKAR Mr. RAHUL RAVINDRA Mr. VIGNESH BHARADWAJ
956.	47S_BE_1201	A DETECTION OF INTRACRANIAL HEMORRHAGE FROM CT SCANS USING DEEP LEARNING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. SOWMYA H. K. Dr. SONIA MARIA D'SOUZA	Ms. N. VENKATA DEVAGNAA Mr. NIKHIL MANNE

957.	47S_BE_1464	EXTRACTING THE ESSENCE OF AYURVEDA: A TEXT MINING APPROACH TO HERBS AND BENEFITS USING NAMED ENTITY RECOGNITION	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. SOWMYA H. K. Dr. N. V. UMA REDDY	Mr. LINGALA NAGA MALLESHWAR REDDY Mr. METUKURU SRI CHARAN REDDY Mr. MATAM DINESH CHANDRA Mr. JANAPATI NEERAJ
958.	47S_BE_1499	AUTOMATED OFFICE MEETING SUMMARIZATION WITH NLP BASED VIDEO TRANSCRIPTION	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. AKSHATHA P. S. Prof. BINDU S.	Mr. AKASH B. Mr. C. SUMUKH Mr. GOWARDAN REDDY V. Mr. V. HARSHITH
959.	47S_BE_1618	AN ADVANCED SENSORY PERCEPTION SYSTEM FOR OLFACTORY ANALYSIS PROVIDING A CUTTING-EDGE DIGITAL OLFACTION SOLUTION WITH IMPLICATIONS FOR DIVERSE INDUSTRIAL SECTORS	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. SUPRIYA B. RAO Dr. MARIA SONIA DSOUZA	Mr. UMAIR AHMED Mr. TALHA RAKIM KHAN Mr. ARITROO KUMAR CHOWDHURY
960.	47S_BE_1818	A DEEP LEARNING APPROACH TOWARDS THE DETECTION OF KIDNEY STONE USING CT SCANS IMAGES	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Ms. JIMSHA K. MATHEW Ms. RAJASREE R. S.	Ms. NEEHIKA P. SETTYPALLI Ms. PANABAKAM NIHARIKA
961.	47S_BE_1915	PRECISION FARMING WITH AI FOR OPTIMAL CROP YIELD AND HEALTH	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Ms. JIMSHA K. MATHEW Dr. PRIANKA R. R.	Mr. ALLAMPATI VIGNESH REDDY Mr. DADIREDDY GIRIHAS REDDY Ms. DAKSHA T. M. Mr. KUSHAL KULANDAIVELU
962.	47S_BE_2802	SONIC INSIGHTS: REVOLUTIONIZING LUNG DISEASE ANALYSIS AND PREDICTION WITH LUNG BEATS	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. SUPRIYA B. RAO Prof. SHRAVYA SHETTY	Mr. VEJANDLA MAHESH BABU Mr. AVNEESH TAMRA Mr. RACHIT SHRIVASTAVA Mr. ALAN DERRYL
963.	47S_BE_1710	PARTIAL REPLACEMENT OF COARSE AGGREGATE AS COCONUT SHELL IN PREVIOUS CONCRETE	B.E.	CIVIL ENGINEERING	Mrs. SNEHAL R. L. Dr. SURENDRA B. V.	Mr. SHYLESH L. Mr. SHREYAS P. Mr. VEDANTH M. Mr. ROHAN R. NAYAK
964.	47S_BE_2540	WATER LEAKAGE DETECTION USING WATER SENSING CABLE	B.E.	CIVIL ENGINEERING	Mrs. SWETTI JHA Dr. SURENDRA B. V.	Ms. N. TEJA SREE Ms. S. BHOOMIKA Mr. BASIREDDY KARTHIKEYA Mr. T. VENKATA SUBBAIAH
965.	47S_BE_3363	PREPARATION OF BRICKS USING RED MUD BY PARTIAL REPLACEMENT OF NATURAL CLAY	B.E.	CIVIL ENGINEERING	Mrs. SNEHAL LAHANDE Mr. CHANNABASAVA	Mr. RAGHAV G. T. Mr. AJAYKUMAR D. Mr. DARSHAN L. Mr. NEERAJ SURESH KAMBLE
966.	47S_MCA_0021	SIGNSYNC - MACHINE LEARNING INSIGHTS INTO SIGN LANGUAGE RECOGNITION	M.C.A.	COMPUTER APPLICATIONS	Prof. JINCY C. MATHEW Dr. V. ASHA	Mr. MOHAMMED MAZIL KATINGERI Ms. MARY SHINE S. Ms. MEGHANA Mr. MUHAMMAD SURAQUATU
967.	47S_MCA_0022	VIDEO SURVEILLANCE AND TRACKING SYSTEM USING FACIAL RECOGNITION	M.C.A.	COMPUTER APPLICATIONS	Prof. JINCY C. MATHEW Dr. V. ASHA	Ms. MITHUNA P. Mr. MAYUR L. KOLAMBKAR Mr. NARENDRA GAUTHAM V. Mr. NAVEEN PRAKASH G.
968.	47S_MCA_0024	AGRICULTURAL PROSPECTS THROUGH EDIBLE MUSHROOM CLASSIFICATION - MACHINE LEARNING APPROACH	M.C.A.	COMPUTER APPLICATIONS	Dr. ARPANA PRASAD Dr. V. ASHA	Mr. BRONSON TAKHELLAMBAM Mr. BIKRAM BISWAS Ms. BRUNDA Ms. B. BALA MAHESH
969.	47S_MCA_0033	IMAGE PROCESSING BASED CRIMINAL IDENTIFICATION SYSTEM	M.C.A.	COMPUTER APPLICATIONS	Dr. M. T. VASUMATHI Dr. V. ASHA	Ms. DIVYA SHARMA Ms. DIVYABHARATHI T GUDDENNA Ms. DITSHA CHOWDHURY Ms. DEEPTHI V.
970.	47S_MCA_0037	NATURE NEXUS: EMBRACING PARENTHOOD IN THE HEART OF NATURE	M.C.A.	COMPUTER APPLICATIONS	Dr. N. MITHILI DEVI Dr. V. ASHA	Ms. PRIYANKA IMAGOUDANAVAR Mr. PRATHITH Ms. S. ROSHINI Ms. RIMPA SAMANTHA
971.	47S_MCA_0038	SMART SCHOOL BUS USING IOT	M.C.A.	COMPUTER APPLICATIONS	DR. N. MITHILI DEVI Dr. V. ASHA	Ms. PRAVALLIKA S. Mr. RAVITEJA T. Mr. ROHIT Mr. REHAN GUPTA

972.	47S_BE_1229	FINGERDETECT PRO: ADVANCED FINGERPRINT CRIME ANALYSIS TOOL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. T. KAVITHA Dr. C. R. RATHISH	Mr. REVAPPA Mr. SACHIN B. HANDIGNUR Mr. SACHIN Y. M. Mr. SUMIT S. PURANDARE
973.	47S_BE_1414	BLOCK CHAIN BASED INTER-ORGANIZATIONAL SECURE FILE SHARING SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. BANDARI CHANNARAYA PRIYA Dr. M. DHANALAKSHMI	Mr. BOMMU THARUN KUMAR REDDY Ms. B. ROOPA REDDY Mr. A. ROHITH
974.	47S_BE_1525	FLOOD PRONE ROAD RECOGNITION: ENHANCING RESILIENCE THROUGH IDENTIFICATION ANALYSIS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. ANAPARTHI YASASWI Dr. SANTHOSH KRISHNA B. V.	Ms. TIRUVATHURU BHOOMIKA Ms. YASHIKA PATHY Ms. VARSHA GANESH
975.	47S_BE_1556	FAKE PROFILE DETECTION ON SOCIAL MEDIA USING MACHINE LEARNING ALGORITHMS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. ROJA R. Dr. T. KAVITHA	Mr. MELBIN BIJU Mr. ALISTAIR KISSINGER Mr. SANJAY G. Mr. PRINCE ENOCH
976.	47S_BE_1622	BRAIN NEOPLASM IDENTIFICATION USING CNN WITH VGG-16 MODEL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. SOJA RANI S. Dr. NIRMALA M.	Ms. SHREE RAKSHA C. Mr. SAI KUMAR REDDY J. Mr. SOLLETIHRUDAY
977.	47S_BE_1625	ROADSENSE: REAL-TIME TRAFFIC SIGN DETECTION FOR SAFER COMMUTES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. CHITRA C. Dr. B. MEENAKSHI SUNDARAM	Ms. HARSHITA R. Ms. ABINAYA S. Ms. GUNTIMADUGU POOJA
978.	47S_BE_0019	A PORTABLE IMPROVISED SOLAR HOME LIGHTING SYSTEM WITH LiFePO4 BATTERY	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. VINOTH KUMAR K. Mrs. ANITHA A.	Mr. ADVAITH MADHAVAN Mr. KHADIM HUSSAIN Mr. KOVVURI JAVED AJMAL BABA Mr. M. P. JAWAHAR
979.	47S_BE_0020	FARMGUARD: AUTOMATED ANIMAL DETECTION AND MONITORING SYSTEM	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. S. SUJITHA	Ms. DISHA M. Ms. HARSHIKA Ms. HEMAVATHI V. Ms. AAMNA NAFIZA
980.	47S_BE_0023	EMPOWERING MOBILITY FOR DISABLED: DESIGN AND FABRICATION OF E-TRICYCLE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. S. SUJITHA	Mr. SANJAN R. Mr. MOHAMMED IMAD Mr. SHASHANK JOSHI Ms. SNEHA S. A.
981.	47S_BE_0026	EV TOUCH START FINGERPRINT - POWERED IGNITION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. S. SUJITHA	Mr. GAGAN M. Mr. ARUNESH KUMAR SINGH Mr. VARUN P. C.
982.	47S_BE_0031	SOLAR POWERED INDUCTION MOTOR SPEED CONTROL USING IOT FOR AGRICULTURE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. VINOTH KUMAR K.	Mr. KAMALESH BADOLA Mr. KUSHAL NAIK K. Mr. LAVA KUMAR M. N. Mr. MOHAMMAD AMAN
983.	47S_BE_0052	LOAD FREQUENCY CONTROL OF ISOLATED HYBRID MICROGRID	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. MAUSRI BHUYAN	Mr. ANSHU KUMAR U. Mr. ADITYA NARAYAN Mr. AKSHAT SHAJI
984.	47S_BE_0069	ENHANCED ELECTRIC PROPULSION AND STABILITY CONTROL IN TWO-WHEELED VEHICLES	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. S. SUJITHA	Mr. DAYAS A. DIXEN Mr. DHEERESH VIJAY DEVADIGA Mr. DONY SNEHIT P. Ms. HARSHITHA K.
985.	47S_BE_0043	IOT-BASED VEHICLE MONITORING SYSTEM FOR SAFETY STANDARDS IN SMART CITIES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. PIRUTHIVIRAJ P. Mr. AJAY SUDHIR BALE	Mr. TARUN S. R. Mr. TARUN M. Mr. TARUN M. K.
986.	47S_BE_0072	SPORTS ANALYTICS USING MACHINE LEARNING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. KAVITA AVINASH PATIL Dr. B. MEENAKSHI SUNDARAM	Mr. SIDDHARTH C. Ms. SHRUTI SINGH Ms. HARSHITHA PILLAI Mr. HIMADRI BISWAS
987.	47S_BE_0844	LONG RANGE SPY ROBOT USING NIGHT VISION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. ISHANI MISHRA Mrs. MONIKA GUPTA	Mr. PREETHAM P. KUMAR Mr. R. SRIRAM Ms. RANGAREDDY SHALINI Mr. VISHWAS D.
988.	47S_BE_2807	IOT BASED VEHICLE ACCIDENT PREVENTION USING GSM+GPS & ARDUINO	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. SRINIVAS BABU N. Mr. SHASHIKIRAN S.	Mr. SUGURU RAVIKANTH Mr. SUDEEP V. D. Mr. YASHWANTH Mr. PURUSHOTHAM REDDY
989.	47S_BE_3631	SUSTAINABLE ENERGY GENERATION AND AIR PURIFICATION FOR SMART CITY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. MAHENDRA SHRIDHAR NAIK	Mr. HARI ROHITH Mr. KEVIN ANTHONY Mr. PREETHAM CHANDRAN Ms. NIKITA PAL

990.	47S_BE_5361	OBSTACLE AND METAL DETECTION ROBOT USING ESP32 MICROCONTROLLER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. ISHANI MISHRA Dr. MANIKANDA KUMAR	Ms. B. SRIHARSHITA Ms. ASHMI JOHN Ms. BHAVANA M. Ms. G. NEHA
991.	47S_BE_5385	DESIGNING AND TESTING AUTOMATIC AGRICULTURAL ROBOTS FOR FARMING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. RAJESH G. Dr. JAYANTHI M.	Ms. J. ROMINA SOPHIA Mr. DARWIN NOEL
992.	47S_BE_5397	SEAMLESS MONITORING AND ALERT SYSTEM FOR MAINTAINING OPTIMAL AQUARIUM CONDITIONS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. RAJESH G. Prof. GURULAKSHMI	Ms. ANKITA SHETTI Ms. ARCHANA Ms. CHITHRASHREE B. T.
993.	47S_BE_0902	PERCEPTI ALARM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. PRIYA N. Dr. VANDANA C. P.	Mr. JASHWANTH D. S. Mr. JAYAM SURENDRA ANIL Mr. K. L. TEJAS
994.	47S_BE_0912	NEXT-GEN VEHICLE SAFETY: ACCIDENT MONITORING AND TRACKING SERVICES USING IOT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. BIBIANA JENIFER J. Dr. VANDANA C. P.	Mr. S. HARISHKUMAR Mr. KIRAN K. B. Ms. MALLAMMA H. Ms. MARIA IMMACULATE S.
995.	47S_BE_1102	SOIL ANALYSER	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. KALAIVANI Mr. KIRAN KUMAR	Mr. NIKHIL KAMATE Mr. OM VIJAY GAWADE Mr. PINAKI SANKAR MATRUPRASAD Mr. VAMSI KRISHNA SAI
996.	47S_BE_1248	AUTOMATIC ENGINE LOCKING SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Ms. ARCHANA DAS Dr. VANDANA C. P.	Mr. ANISH PRASAD GUPTA Ms. TANUSHA P HIREDESAI Mr. ROHIT RAJ Mr. CHAYAN PAIKARA
997.	47S_MBA_0046	DESIGN AND FABRICATION OF AUTOMATED MASK AND TEMPERATURE DETECTION	MBA	MBA	Dr. PRIYAMEET KAUR KEER Dr. GURU BASAVA ARADHYA S.	Mr. PRAJWAL J. NAIK Ms. GAGANA REDDY S. Mr. LEVIN KURIAKOSE
998.	47S_MBA_0174	VAULT H2O	MBA	MBA	Dr. PRIYAMEET KAUR KEER Dr. GURU BASAVA ARADHYA S.	Mr. Y. LAKSHMI KANTH Mr. LOKESH M. Ms. NEELAM JAIN Ms. SANJANA D. J.
999.	47S_BE_1055	DESIGN AND DEVELOPMENT OF WEED REMOVAL IN LAKES USING IOT	B.E.	MECHANICAL ENGINEERING	Prof. SUJEETH SWAMI Prof. RAKESH C.	Mr. NITHIN E. N. Mr. SHIVAKUMAR S. Mr. AASIM KHAZI
1000.	47S_BE_1114	DESIGN AND FABRICATION OF ONBOARD POWER GENERATION FOR EV (2-WHEELER)	B.E.	MECHANICAL ENGINEERING	Prof.GOWTHAM RAJ R. Dr. K. GOPAL	Mr. VISHNUPRASAATH P. Mr. SHIVA S. Mr. MANJUNATH H. P. Mr. SAMANTHULA YUVA SAISH KUMAR REDDY
1001.	47S_BE_1313	FABRICATION OF 3D PRINTED PMC'S FOR BIO-IMPLANTS	B.E.	MECHANICAL ENGINEERING	Dr. SRINATH M. K. Dr. MANJUNATHA	Mr. MELVIN C. NITHIN JOSEPH A Mr. SURAJ RAM Mr. NAVEEN KUMAR SHARMA
1002.	47S_BE_1344	LEVERAGING SMART DEVICES FOR EARLY FOREST FIRE DETECTION	B.E.	MECHANICAL ENGINEERING	Prof. RAKESH C. Dr. MANJUNATHA	Mr. ABHAY PRAKASH Mr. A. ASHWIN MENON Mr. DHANUSHEKAR N. Mr. PRAJWAL M.
1003.	47S_BE_2825	ENHANCING IMAGE RECOGNITION AND IMPROVISING VIDEO CALL EXPERIENCE USING ML	B.E.	MECHANICAL ENGINEERING	Dr. GAYATRI TANUJA G.	Mr. SURYA SHYAM Mr. TEJAS C. K.

125. NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1004.	47S_BE_3284	EXPERIMENTAL AND ANALYTICAL STENGTH INVESTIGATION OF REPAIRED FRP LAMINATES	B.E.	AERONAUTICAL ENGINEERING	Mr. RAMVISHAL G. Dr. SRIKANTH H. V.	Mr. SHASHI KUMAR S. Ms. PRAGATHI B. S. Mr. SHREE NARESH
1005.	47S_BE_5124	CROP YIELD PREDICTION USING MACHINE LEARNING	B.E.	CIVIL ENGINEERING	Mrs. BHARTI PRASAD	Mr. YASHAS C. H. Mr. SUDARSHAN Y. Mr. SHIVAKUMAR GOWDA
1006.	47S_BE_5298	COMPREHENSIVE INNOVATIVE INTEGRATED SYSTEMS FOR RETROFITTING BUILDINGS TO ENHANCE NATURAL LIGHTING AND VENTILATION LEADING TO SUSTAINABILITY.	B.E.	CIVIL ENGINEERING	Dr. MANJUNATHA L.	Mr. AMITGOUDA S. PATIL Mr. ADARSHA R. C. Ms. GREESHMA JINKAL

1007.	47S_MCA_0003	AN ARCHITECTURAL PROTOTYPE OF DEVELOPMENT OF AUTOMATED HRMS PLATFORM IN INDUSTRIES	M.C.A.	COMPUTER APPLICATIONS	Dr. DILEEP M. R. Mr. NAVANEETH A. V.	Mr. YASHWANTH M. V. Mr. SANJAY M. Mr. SHRAVAN B. MOHAN Mr. NAVEEN M.
1008.	47S_MCA_0055	HUMAN FACIAL RECOGNITION USING IMAGE PROCESSING	M.C.A.	COMPUTER APPLICATIONS	Dr. KAVITHA S. Dr. SREEKANTH RALLAPALLI	Mr. DILIP V. Mr. DHEERAJ V. Mr. KESANI SAI KUMAR Mr. UDAY KUMAR T.
1009.	47S_BE_2311	NEURONAV: MIND CONTROLLED MOBILITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. MAMATHA BAI B. G.	Ms. ASHWIN R. B. Mr. NITHIN G. P. Mr. ROHAN GUPTA K. R. Mr. VARUN N. SHARMA
1010.	47S_BE_4741	DEVELOPMENT OF AN IOT-BASED SOLUTION TO ADDRESS ILLEGAL LOGGING AND TIMBER THEFT: ENABLING REAL-TIME MONITORING AND INTERVENTION FOR SUSTAINABLE FORESTRY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. DEEPTHI SHETTY Mrs. UMA R.	Mr. ASHISH B. RAJKUMAR Mr. AKASH N. HEDDERI Mr. ARUN RAJ G. G.
1011.	47S_BE_3584	DESIGN OF STAND-BY POWER SAVING DEVICE USING IOT AND ITS APPLICATIONS IN HOME APPLIANCES	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mrs. MEGHANA A. Dr. SINGARAVELAN A.	Mr. Y. ABHISHEK NAIDU Mr. NITHIN N. G. Mr. ARUN KUMAR SANGANAL
1012.	47S_BE_4560	AN ASSISTIVE DEVICE FOR DEMENTIA PATIENTS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. HARSHA KARAMCHANDANI	Mr. VAIBHAV KUMAR SINHA Mr. SHIVAM KASHINATH SHELAKE Mr. ARPIT SINGH
1013.	47S_BE_4612	DESIGN AND DEVELOPMENT OF FIRE FIGHTING UAV FOR SURVEILLANCE OF URBAN ENVIRONMENTS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SHASHIDHARA K. S.	Mr. ADITHYA T. Mr. C. DEEPAK Mr. SAI KIRAN V.
1014.	47S_BE_4874	HUMAN FALL DETECTION FOR SPECIALLY ABLED	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. RAJESH N.	Ms. PALLAVI V. N. Ms. SWATI PUJARI Ms. VELIDANDLA CHATHURIMA
1015.	47S_BE_4989	CAR BLACK BOX SYSTEM FOR ACCIDENT ANALYSIS USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. PARAMESHACHARI B. D.	Mr. CHARANA P. L. Ms. KAVYA Ms. VEEKSHITHA
1016.	47S_MBA_0119	AN ANALYSIS OF IMPACT OF HYDROGEN-BASED FUEL ENGINES ON AIR QUALITY AND NOISE POLLUTION	MBA	MBA	Dr. SHILPA AJAY Dr. ETI KHATRI	Ms. SRISHTI Mr. KOUSHIK GOWDA C. V.
1017.	47S_MBA_0135	DEVELOPMENT OF A LOW-COST AND ECO-FRIENDLY SANITARY NAPKIN FROM BANANA FIBER	MBA	MBA	Dr. LAKSHMI H. Ms. KEERTHI H. K.	Ms. SUNIDHI V. K. Ms. SANJANA S. Ms. SAVITHA T. S. Ms. BHANUMATHI U.
1018.	47S_BE_3750	OPTIMIZATION OF A LOW CUT-IN SPEED DUAL-AXIS WIND TURBINE FOR HIGHER PERFORMANCE	B.E.	MECHANICAL ENGINEERING	Dr. L. HARISH KUMAR	Mr. PRATHAM RAO R. Mr. PRAJWAL PRASANNA

126. NITTE SCHOOL OF FASHION TECHNOLOGY AND INTERIOR DESIGN, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1019.	47S_BE_3971	GREEN THREADS: TRANSFORMING PLANT FIBRES INTO COST - EFFECTIVE, SUSTAINABLE MEDICAL TEXTILES	B.E.	FASHION TECHNOLOGY	Mr. RAMESH K. S. Dr. L. HARISH KUMAR	Ms. SANJEETHA HARISH

127.P.A. COLLEGE OF ENGINEERING, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1020.	47S_BE_5009	HYDROPONICS FARMING: THE TECHNOLOGY TOWARDS SUSTAINABILITY	B.E.	CIVIL ENGINEERING	Prof. JAMEELA	Mr. RIFAZ N. H. Mr. PRANJAL Ms. CHAITHANYA Mr. MAHAMMAD UBAID
1021.	47S_BE_4498	CYBER-ATTACK DETECTION SYSTEM FOR BIOMETRIC	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHARMILA KUMARI M.	Ms. AFRAH ABDUL AZIZ Ms. DISHA D. NAIK Ms. FAREEHA FAIZ AHSAN Ms. BHAGYASHREE K.
1022.	47S_BE_3867	EFFECT OF BIOFIBRE AND EGGSHELL POWDER REINFORCEMENT ON THE MECHANICAL PROPERTIES OF EPOXY RESIN COMPOSITES	B.E.	MECHANICAL ENGINEERING	Dr. PRASHANTH PAI M. Mr. AASHITH C.	Mr. ADITHYA P. N. Mr. FAHAD P. A. Mr. JITHESH P. Mr. ABDUL RAZIK

128. P.D.A. COLLEGE OF ENGINEERING, KALABURAGI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1023.	47S_BE_3990	IMAGE SUPER RESOLUTION FOR TELESURGERY USING ESRGAN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PRIYADARSHINI PATIL	Ms. GAZALARUHI Ms. POORNIMA K. Ms. NIRANJANI PATIL
1024.	47S_BE_3993	NAVIGATION SYSTEM FOR VISUALLY IMPAIRED PEOPLE USING IMAGE PROCESSING AND AUGMENTED REALITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SAYYADA FAHMEEDA SULTANA	Ms. SUSHMA DUBE Ms. VAISHNAVI CHAVAN Ms. SOUNDARYA A. N.
1025.	47S_BE_4072	AN ADVANCED COMPUTATIONAL FRAMEWORK FOR THE AQUEOUS QUALITY PREDICTION AND GRADING FOR OPTIMAL UTILISATION VIA MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. JAYASHREE AGARKHED	Ms. PRIYANKA L. PANDE Ms. SHWETA KOLAR Ms. SNEHA
1026.	47S_BE_4078	ELECTRICITY SAVER FOR SMART CLASSROOM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHRIDEVI SOMA	Mr. ADNAN SAMEE JUNAIDI Mr. BHIMASHANKAR Mr. MOHAMMED ZAHED
1027.	47S_BE_4467	DETECTING AI GENERATED CONTENT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. POORVIKA HARSOOR	Mr. MOHAMMED FAIZAN ALI Mr. MD NAVEED ANJUM Mr. DANIEL DEEPAK DALBHANJAN
1028.	47S_BE_4571	DATA HIDING TECHNIQUES IN MULTIMEDIAL OBJECTS USING STEGANOGRAPHY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHARANABADAPPA GANDAGE	Mr. SRIVATSA Mr. SANKET S. BIRADAR Mr. SHASHANK G. SONTH
1029.	47S_BE_4698	IDENTIFICATION OF BRAIN STROKE USING ARTIFICIAL INTELLIGENCE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ANURADHA T.	Mr. ABHISHEK JAIVANT HIRNAGAONKAR Mr. MAHEBOOB PATEL Mr. MOHAMMAD AKBAR ALI
1030.	47S_BE_4707	TRANSCRIBER FOR NPTEL VIDEOS TO DIFFERENT REGIONAL LANGUAGES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SAYYADA FAHMEEDA SULTANA	Ms. BHAVANA V. REDDY Ms. ARUSA KONAIN Ms. NEELAMBIKA
1031.	47S_BE_4779	AN EXPERIMENTAL AID FOR SMART OBJECT DETECTION USING CNN, DT AND SVM ALGORITHMS PARALLELLY FOR FACE RECOGNITION USING 5G	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. JAYASHREE AGARKHED	Mr. LAXMIKANTH KULKARNI Mr. PAVAN Mr. HARSHA
1032.	47S_BE_4910	SECURE ELECTRONIC HEALTH RECORD SHARING USING BLOCK CHAIN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. CHETANKUMAR K.	Ms. RENUKA Ms. RAJASHREE Ms. DEVIKA
1033.	47S_BE_5108	CYBER THREAT PREDICTIVE ANALYSIS FOR CYBER SUPPLY CHAIN SECURITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHAILAJA S.	Mr. SHAIKH MOHD UZAIR Mr. SHARANABASAVA Mr. SANGMESH
1034.	47S_BE_3992	DESIGN AND FABRICATION OF SOLAR DRYER FOR RAISINS	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. SANGAMESH G. SAKRI	Mr. KARTIK Mr. CHETAN Mr. KRASHNAREDDY Mr. FURKHAN
1035.	47S_BE_4389	PROBABILISTIC MODELLING OF FUTURE ELECTRICITY SYSTEMS WITH HIGH RENEWABLE ENERGY PENETRATION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. AKSHAY S ASPALLI	Mr. MOHAMMED KAIF AHMED Mr. MOHAMMED IMRAN SHAIKH Mr. NIKHIL Mr. MOHAMMED MUKHTADEER
1036.	47S_BE_5228	DRY HANDWASHING MACHINE BY FOG DISINFECTION TO SAVE WATER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. VEENA SARAF	Mr. SHIVABASAYYA Mr. SHARANABASAVA Mr. ABHISHEK Mr. PARVEZ
1037.	47S_BE_4440	ECOGUARD: PROTECTION OF FOREST ASSETS USING IOT AND WSN TECHNOLOGY	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. CHANDRAKANT BIRADAR	Ms. BHAGYASHREE Ms. SIDDESHWARI Ms. SNEHAJYOTI

129. P.E.S. COLLEGE OF ENGINEERING, MANDYA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1038.	47S_BE_2912	STRENGTHENING OF FLEXURAL AND SHEAR INADEQUATE RC BEAM DUE TO DISTRESS BY WRAPPING CARBON AND GLASS FIBRE REINFORCED POLYMER	B.E.	CIVIL ENGINEERING	Dr. SHIVARAJ G. NAYAK	Ms. KHUSHI S. Ms. BHUMIKA N. Mr. PRAVEEN M. S. Mr. SWAROOP GOWDA P.

1039.	47S_BE_3300	NOVEL TECHNIQUE TO REMOVE FLUORIDE CONTENT USING BIOCHAR	B.E.	CIVIL ENGINEERING	Prof. MADHUSUDHAN M. S.	Ms. PRATHIBHA N. Ms. SINDHU T. P. Mr. VINAY IRANNA AURASANG Mr. JAYANTH S. P.
1040.	47S_MBA_0106	PRECISION FARMING	MBA	MBA	Prof. T. D. SUMAN Prof. MARY SOUNDARYA J.	Mr. DARSHAN S. Mr. JAYANTH ARADHYA M. Ms. PRAKRUTHI N. Ms. CHANDANA S. N.
1041.	47S_BE_4003	CONDITION MONITORING OF SPUR GEAR USING VIBRATION SIGNAL AND MACHINE LEARNING TECHNIQUE	B.E.	MECHANICAL ENGINEERING	Dr. MADHUSUDANA C. K.	Mr. VISHWANATH SURESH SATAPUTE Mr. YASHWANTH T. R. Mr. YASHWANTH KUMAR S. L. Mr. VISHWASKUMAR

130. P.E.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1042.	47S_BE_2397	COLOR IMAGE ENCRYPTION USING DNA WITH QUANTUM WALK ALGORITHM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. SANDEEP K. H.	Ms. APOORVA N. MATTUR Ms. BHAIRAVI N. UDUPA Ms. CHANDANA T. N. Ms. DIVYA S.
1043.	47S_BE_3156	AUTOMATIC STROKE RECOVERY RATE PREDICTION SYSTEM BASED ON MOVEMENT ANALYSIS DURING COMPUTER INTERACTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. CHETHAN P. J.	Ms. AISHWARYA B. R. Ms. AMITHA G. S. Ms. ANANYA V. K. Ms. ANJALI C. R.
1044.	47S_BE_3247	MACULOPATHY DETECTION AND DIAGNOSIS USING ML	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ARJUN U. Mr. SUNIL KUMAR H. R.	Ms. GAGANA D. B. Ms. SANJANA K. M. Ms. SINCHANA S. Ms. SNEHA C. M.
1045.	47S_BE_3254	AGUMENTED REALITY TRANSFORMING PDF INSIGHTS INTO INTERACTIVR AR EXPIRENCE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. SUNIL KUMAR H. R.	Mr. BALAJI S. Ms. SMRITHIKA M. B. Ms. THRUPTHI S. Mr. SREE VISHNU B. N.
1046.	47S_BE_3303	IMAGE-BASED CONTENT CLASSIFICATION FOR FILTERING SENSITIVE IMAGES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. CHETHAN L. S.	Mr. SKANDA Mr. SATHVIK PATIL Mr. SATHWIK G. HEGDE Mr. SIDDHARTH K. M.
1047.	47S_BE_3532	CAPACITY PREDICTION OF LITHIUM-ION BATTERIES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. RAJESH T. H.	Mr. SUDEEPA N. Mr. SRINIVASA G. D. Mr. SRUJAN A. Mr. SUJITH G. AITHAL
1048.	47S_BE_3450	SELF EXICITED POWER GENERATION USING MAGNETIC FORCE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mrs. KALAPANA S.	Mr. KEERTHI K. Mr. GIREESH KUMAR G. Mr. MANJUNATH RAMA GOUDA Mr. SAI KUMAR C.
1049.	47S_BE_3627	SMART ATM CARD FOR MULTIPLE BANK ACCOUNTS	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. KIRAN M. R.	Mr. OMPRAKASH S. M. Mr. RAGHAVAN A. Mr. SHOBHARAJ C. Mr. VINAY KUMAR K. M.
1050.	47S_BE_5226	WASTE CARBON CAPTURE FOR SUSTAINABLE PRODUCT DEVELOPMENT	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. KIRAN M. R.	Mr. NANDAN RAGHUPATHI HEGDE Mr. PRAVEENA K. S. Mr. RAVEESH GANAPATI HEGDE
1051.	47S_BE_3927	EMPOWERING WOMEN'S SAFETY: SELF DEFENSE SECURITY SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. MALASHREE K. S.	Ms. A. ANNSHREYA Ms. JAHNAVI T. S. Ms. VIDHYA D. C.
1052.	47S_BE_3929	FLOATING WASTE SCOOPING AND SEGREGATION ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. NITHIN H. V.	Ms. PALLAVI MAHANTAYYA HIREMATH Ms. KAVYA K. N. Ms. KEERTHANA P. Mr. AKARSH ARADHYA S. R.
1053.	47S_BE_4358	SHOPPING TROLLEY FOR AUTOMATED BILLING SYSTEM WITH PICK AND PLACE MECHANISM USING IMAGE PROCESSING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. NITHIN H. V.	Ms. DEEPTI S. HEGDE Ms. DIVYASHREE M. Ms. K. S. TANUSHREE Mr. KOUSHIK S. M.
1054.	47S_BE_3032	DETECTION OF HEART DISEASES USING MEDICAL IMAGE ANALYSIS AND ARTIFICIAL INTELLIGENCE	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. PRASANNA KUMAR H. R.	Ms. SHANTHALA N. Ms. DEEPTHI S. SHETTY Ms. SHIRLEY ANGEL G. Ms. T. S. NAVYA
1055.	47S_MBA_0147	UNVEILING A GREEN GEM: TIME TO DITCH COTTON? EXPLORING ARECA NUT HUSKS AS A SUSTAINABLE ALTERNATIVE	MBA	MBA	Dr. D. M. ARVIND MALLIK Mr. HEMANTHA KUMARA M. G.	Ms. YASHASWINI BOOSAL G. Ms. USHA CHANDRASHEKHAR NAIK Ms. ANUSHRI G. R. Ms. BHOOMIKA C. R.

1056.	47S_MBA_0153	TRANSFORMING ECO-FREINDLY COCONUT SHELL POWDER INTO SUSTAINABLE BOTTLES	MBA	MBA	Mr. HEMANTHA KUMARA M. G. Dr. PRASHANTHA KUMAR O.	Ms. ANKITHA R. Mr. MANOJ KUMAR H. P. Ms. SAHANA SHETTI Ms. POOJITHA K.
1057.	47S_MBA_0161	NEEM PAINT COATING	MBA	MBA	Mr. HEMANTHA KUMARA M. G. Dr. D. M. ARVIND MALLIK	Mr. SUMANTH S. B. Ms. SUPRITHA M. Ms. DHYANA S. Mr. DHANUSH S.
1058.	47S_MBA_0165	RECYCLE, REUSE & AWARENESS ON BIODEGRADABLE COCONUT HUSK TO COIRFIBER, COCO PEAT AND ACTIVATED CARBON HARDSHEET, HARDSHEET, TABLE, BRIQUETTES OR PELLETS	MBA	MBA	Mr. HEMANTHA KUMARA M. G. Dr. D. M. ARVIND MALLIK	Ms. VAISHNAVI BIRADAR Mr. SUDEEP S. G. Ms. HAFILA H. Mr. AMITH U. N.
1059.	47S_MBA_0175	EXPERMENTAL STUDY ON PRODUCTION OF CHARCOAL USING ARECA NUT HUSK IN SUSTAINABLE ENVIRONMENT.	MBA	MBA	Mr. HEMANTHA KUMARA M. G. Mr. ARJUN J.	Ms. AKSHATHA D. G. Ms. NAVYA SUBRAY HEGDE Ms. LAKSHMI T. O. Ms. NOORAIN

131. P.E.S. UNIVERSITY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1060.	47S_BE_5487	INTELLIGENT REAL-TIME TRAFFIC MANAGEMENT SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. MANIKANDAN J.	Ms. CHAITANYA PATANGE Ms. K. G. DEEKSHITHA Ms. NEERAJA S.

132. PADMASHREE INSTITUTE OF MANAGEMENT AND SCIENCES, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1061.	47S_MSC_0095	PREPARATION OF BIOGENIC SELENIUM NANO CONJUGATE EMULSION FROM LENTINULA EDODES EXTRACT TO TREAT SKIN HYPERPIGMENTATION	M.Sc	BIOCHEMISTRY	Dr. NAGAMANI J. E. Dr. INDU B. K.	Ms. SAHANA G. Ms. RAKSHITHA R.
1062.	47S_MSC_0175	EXPLORING THE POTENTIAL MICROBES FROM GUT MICROBIOME OF EARTHWORM FOR FASTER DEGRADATION OF KITCHEN WASTE	M.Sc	BIOTECHNOLOGY	Dr. SUDIPTA KUMAR MOHANTY Dr. SUHASA G.	Ms. NIKHITA B. Ms. MONICA C. R. Ms. SWATHI T. G.
1063.	47S_MSC_0186	DEVELOPMENT OF ACTIVATED CARBON COATED NANOPARTICLE COMPOSITE FOR REMOVAL OF HEAVY METALS	M.Sc	BIOTECHNOLOGY	Dr. SUDIPTA KUMAR MOHANTY	Ms. SUNITHA J SHETTY Mr. SANJAY B. M. Ms. RAKSHA S. Mr. VARUN R. PATIL
1064.	47S_MSC_0206	ENCAPSULATION AND REUSE OF ENZYMES FROM GUT MICROBIOME OF PESTS PRESENT IN FRUITS AND VEGETABLES FOR REMOVAL OF PESTICIDES	M.Sc	BIOTECHNOLOGY	Dr. NETHRA SUBRAMANYA Dr. SUDIPTA KUMAR MOHANTY	Ms. PALLABI DUTTA Ms. NIVEDITHA K. Ms. PRUTHVI SHREE S. Mr. NITIN J. GUNDAR
1065.	47S_MSC_0223	DEVELOPMENT OF NUTRACEUTICAL GUMMY	M.Sc	FOOD PROCESSING AND NUTRACEUTICALS	Mrs. SUBBALAKSHMI G. Dr. UMALATHA	Ms. SUSHMA B. R. Ms. NISHA DEY Mr. VISHNU M. KARTHA Ms. AISHWARYA C. A.
1066.	47S_MSC_0245	TESTING THE STREET FOODS IN KENGERI, BANGALORE FOR USE OF ARTIFICIAL FOOD COLORS	M.Sc	FOOD SCIENCE AND NUTRITION	Dr. SHILPA P.	Ms. NISSIE CAROLINE Ms. RITHIKA A
1067.	47S_MSC_0164	DEVELOPMENT AND COMPARATIVE STUDY OF COLORED SILK COCOONS USING NATURAL AND SYNTHETIC DYES: EFFECTS ON SILK QUALITY AND ENVIRONMENTAL IMPLICATIONS	M.Sc	MICROBIOLOGY	Dr. NETHRA SUBRAMNYA Dr. SRIHARSHA	Mr. CHANDAN Ms. VASUNDHARA GHATAGE Mr. MOHAN KUMAR C. Ms. SPOORTI N. A.

133. PRESIDENCY UNIVERSITY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1068.	47S_BE_4363	SMART METERING TO COMBAT ENERGY THEFT USING BLOCKCHAIN TECHNOLOGY	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. RAVI V. ANGADI	Mr. NAGENDRA B. Mr. KISHORE TEJA S. N. Mr. ANAND U. R. Mr. MANJUNATH K.
1069.	47S_BE_5330	GENERATION OF POWER, EXTRACTING MAXIMUM POWER FROM URINE WASTE THROUGH MICROBIAL FUEL CELL.	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. BISHAKH PAUL	Mr. KUSHAL R. Mr. RAMEGOWDA K. T. Ms. HAMSA SHREE R. Ms. FIZA

134. PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPETE, BALLARI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1070.	47S_BE_3757	STREE SWACCHA AUTOMATIC SANITARY PADS COLLECTOR AND DISPENSER	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NAVEEN KUMAR H.	Ms. SEEMA R. Ms. B. SHANTHALA Ms. NABILA SHARIN Ms. SHIFA TABASSUM

135. R.L. JALAPPA INSTITUTE OF TECHNOLOGY, DODDABALLAPURA, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1071.	47S_BE_4883	INDIAN FOOD CALORIE ESTIMTION USING CONVOLUTIONAL NEURAL NETWORK AND TRANSFER LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. VEENA K.	Ms. HARSHITHA D. S. Ms. RASHMI N. Ms. BHAVANA R.

136. R.N.S. INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1072.	47S_BE_2091	REMOVAL OF NITRATE AND PHOSPHATE FROM EUTROPHIC LAKE WATER USING COMBINED ELECTRO-CHEMICAL COAGULATION	B.E.	CIVIL ENGINEERING	Mr. ABHILASH N. R.	Ms. SHUSHMA J. Mr. CHARAN G. M. Ms. ROHINI M. Mr. NAGARAJ S. DESHABHANDARI
1073.	47S_BE_4938	SAFENEST: IOT AND FLUTTER-POWERED WOMEN AND CHILDREN SECURITY SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. LAKSHMI R.	Ms. ANANYA H. Ms. AAKANKSHA N. Ms. AMISHA M. ANGADI Mr. ANISH M. ANGADI
1074.	47S_BE_4406	LEVEL-LOCK PRO: INTEGRATED SECURITY SOLUTION FOR MULTIFLOOR BUILDINGS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Ms. GREESHMA JACOB Dr. ANURADHA K.	Mr. ROHAN R. Mr. NAGASHREYAS N. Mr. SUMUKH AROOD Mr. DEEPU R.
1075.	47S_BE_4932	DESIGN AND DEVELOPMENT OF A DEVICE TO MONITOR DIABETIC FOOT PRESSURE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. IBRAR JAHAN M. A. Dr. RAJINI V. HONNUNGAR	Ms. SHOBITHA R. Ms. ASHA R. Mr. YASHAS H.
1076.	47S_BE_4734	MULTIFUNCTIONAL ROVER	B.E.	ELECTRONICS AND INSTRUMENTATIO N ENGINEERING	Mr. G. N. SRIKANTH	Ms. ANUSHREE P. Ms. SUPRIYA R. Ms. CHITRA R. KALE Ms. PRAKRUTHI M. P.
1077.	47S_BE_4791	SMART HYBRID SYSTEM FOR 2-WHEELER VEHICLE	B.E.	MECHANICAL ENGINEERING	Mrs. VIRAJA DESHPANDE	Mr. DEEPAK S. Mr. CHARAN BETTA B. Mr. DHANRAJ CHAITANYA N. Mr. JAYASIMHA D.

137. R.R. INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1078.	47S_BE_1016	LANDSLIDE SUSCEPTIBILITY MAPPING OF A PART OF COORG DISTRICT, KARNATAKA	B.E.	CIVIL ENGINEERING	Dr. PRASEEDA E. Dr. DIVYALAKSHMI K. S.	Mr. AMAN KUMAR PAJIYAR Mr. RAVI KUMAR YADAV Mr. RAJ SINGH YADAV
1079.	47S_BE_1063	INVESTIGATING LANDFILL SITE SUITABILITY INTEGRATING REMOTE SENSING, GIS AND MULTICRITERIA DECISION MAKING APPROACHES FOR NORTH ZONE OF BANGALORE	B.E.	CIVIL ENGINEERING	Dr. SAVITHA A. L.	Mr. ROHIT KUMAR JHA Mr. ELIYAS AHMAD MUSALMAN Mr. GANGA RAM YADAV
1080.	47S_BE_2695	AUTONOMOUS MOBILE RESCUE ROBOT IN DISASTER ZONE USING IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. RASHMI R. H.	Mr. R. VINAY PATIL Mr. MOHAMMED GHOUSE J. Mr. KISHAN C. L. Mr. MANJUNATH NAIK L.
1081.	47S_BE_2699	SMART IOT-ENABLED FLORAL WASTE RECYCLING SYSTEM FOR SUSTAINABLE BIOMATERIAL PRODUCTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MANJUNATH R.	Mr. SUHAIL N. Mr. HETHISHE B. J. Ms. SRUSHTI H. K. Mr. DEEPAK R.
1082.	47S_BE_2733	A DEEP LEARNING BASED ON FOREST WILDFIRE DETECTION IN MACHINE VISION COURSE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ASHA V.	Mr. PREM KUMAR S. R. Mr. THARUN K. Mr. VENKATESH DILIP GAROLE Mr. SUNIL R.

1083.	47S_BE_2759	BLOCKCHAIN DRIVEN AGRICULTURAL TRANFORMATION FRAMEWORK TO ENHANCE EFFICIENCY, TRANSPARENCY AND SUSTAINABILITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHIVAKUMAR SWAMY N.	Ms. ANANYA E. Ms. NIYATHI A. REDDY Ms. SALONI KUMARI Mr. AKASH PATI
1084.	47S_BE_1543	SOLAR WIRELESS ELECTRIC CHARGING SYSTEM	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. SHIVAKUMARA SWAMY S. Prof. PRADEESHA J	Mr. DEVPUKAR CHAUDHARY Mr. VADDE PAVAN Mr. VINAYAK MISHRA
1085.	47S_BE_4027	AUTOMATIC VEHICLE SPEED CONTROLLER AND AVOIDING ACCIDENT IN EXPRESSWAY/HIGHWAY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SHIVASHANKAR	Mr. MANOHAR JOSHI NANDIBEVUR Mr. ABHISHEK M. Mr. NIKETAN H.
1086.	47S_BE_1231	ADVANCED IOT AND MACHINE LEARNING SOLUTIONS FOR UNDERPASS WATER LOGGING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. BABITHA S. Mr. EEMANUEL	Ms. KRITHIKA A. HEGDE Ms. BHARGAVI N. Ms. DAMINI R. S.
1087.	47S_BE_4663	FABRICATION OF STEREOLITHOGRAOHY MACHINE AND INTEGRATING IT WITH AI	B.E.	MECHANICAL ENGINEERING	Dr. CHANNABASAVA RAJ S.	Mr. MAHESH KUMAR MAHATO Mr. TARIF ANSARI Mr. ABHISEK KUMAR THAKUR Mr. AIDRAB DEBBARMA

138. R.T.E. SOCIETY'S, RURAL ENGINEERING COLLEGE, HULKOTI, GADAG

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1088.	47S_BE_3466	SMART DRIVING AND DRIVER DROWSINESS DETECTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHWETA NIRMANIK	Mr. RAHUL KULKARNI Mr. SHIVAYOGI HIREMATH Mr. VINAYAK MURUDI Mr. PRAJWAL KOLAKAR
1089.	47S_BE_0998	INTELLIGENT STOVE SAFETY SYSTEM USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. ASHWINI K.	Mr. MICHEAL ALWYN Ms. SUSHMITA RAJENDRA MAHIPATI Ms. NETRAVATI DYAMAPPA SORATUR
1090.	47S_BE_0001	COMPARISON OF PERFORMANCE AND EMISSION TEST USING BIODIESEL FROM HONGE OIL AND WASTE COOKING OIL IN CI ENGINE	B.E.	MECHANICAL ENGINEERING	Prof. S.N. BEVINAHALLI	Mr. SUMANTHA PATILA Mr. CHETAN BHEEMAPPA ARAHUNASI Mr. MOHAMMAD ANSAB SHAIKH

139. R.V. COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1091.	47S_MTech_0096	MICROENCAPSULATION OF PROBIOTICS USING SOY CURD POWDER AND PULLULAN FOR ENHANCED SHELF LIFE	M.Tech	BIO TECHNOLOGY	Dr. A. V. NARAYAN Dr. ASHWANI SHARMA	Ms. ANAGHA K. B. Ms. ANAMALAGUNDAM MAHI
1092.	47S_BE_0797	GREEN SYNTHESIS OF NANO COPPER BASED LUBRICANTS FROM ELECTRONIC WASTE	B.E.	CHEMICAL ENGINEERING	Prof. ANUPAMA V. JOSHI Dr. VINOD KALLUR	Mr. MIHIR PATIL Mr. V. AKSHAY HARIHARAN Mr. MOHAMMED AFZAN
1093.	47S_BE_4906	ASSESSMENT OF BLUE-GREEN-GREY INFRASTRUCTURE FOR SUSTAINABLE DEVELPOMENT OF SELECT WARDS IN BANGLORE	B.E.	CIVIL ENGINEERING	Mr. RAMTHILAK	Mr. PRAVEEN KUMAR D. N. Ms. SRUSHTI K. Ms. SARIPUTI YAMUNA Mr. RAHUL B. DYAMANAGOUDRA
1094.	47S_BE_5093	IMPACT OF CLIMATE CHANGE ON FLOW REGIME OF A RIVER: A CASE STUDY OF CAUVERY	B.E.	CIVIL ENGINEERING	Prof. RAMTHILAK	Ms. MAYANK AGARWAL Ms. CHALLA NEHA Ms. HARSHITHA A. V. Ms. NOOKARAPU SINDHU HARIKA
1095.	47S_MCA_0056	SMART SAHAYAKA: EMPOWERING RURAL HEALTH WITH AI DRIVEN CHATBOT	M.C.A.	COMPUTER APPLICATIONS	Dr. DIVYA T. L. Prof. CHANDRANI CHAKRAVORTY	Ms. NIHARIKA M. Ms. LEANDRA SHANIA ANDERSON
1096.	47S_MCA_0058	BEYOND BOUNDARIES: ENGINEERING JOURNEYS IN RURAL COMMUNITIES THROUGH XR	M.C.A.	COMPUTER APPLICATIONS	Dr. PREETHI N. PATIL Dr. ANDHE DHARANI	Mr. SRIJITH V. Ms. VIBHA T. R. Ms. SINDHU S.
1097.	47S_MTech_0123	DESIGN AND FABRICATION OF ADJUSTABLE MOUNTING FIXTURES FOR MEAN VALUE ARTICULATOR FOR DENTAL APPLICATIONS	M.Tech	MACHINE DESIGN	Prof. GANGADHAR ANGADI Prof. H. N.	Mr. MADHUSURYA K. C.

					NARASIMHAMURTHY	
1098.	47S_MTech_0139	REAL-TIME TOOL LIFE MONITORING USING DIGITAL TWIN, SENSOR INTEGRATION AND AI SIMULATION	M.Tech	PRODUCT DESIGN AND MANUFACTURING	Dr. H. D. GOPALAKRISHNA	Mr. DHANUSH L. PRAKASH Ms. NIDHI B. C.

140. R.V. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1099.	47S_BE_1365	CURATIONX: ENHANCING DATA CURATION WITH LLAMA 2	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ROOPASHREE SHAILENDRA	Ms. MAHALAKSHMI L. Mr. PRANESH B. Mr. HOZEFA BOHARA Mr. MOON JAIN
1100.	47S_BE_1411	VIBRANTVERSE: BHARAT BAHUBHASHIK SETU	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ROOPASHREE SHAILENDRA	Ms. PALVISHA CHANGKAKATI Mr. AASHISH RAMANA S. Ms. ADITI UMESH NAYAK Mr. PRANSHU SINHA
1101.	47S_BE_1805	BREAKING LANGUAGE BARRIERS: A GLOBAL TRANSLATION INITIATIVE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ROOPASHREE SHAILENDRA	Mr. SAMYAK TANTRADI Ms. SHRESTA BEKINAL Ms. KUSUMA L. Mr. ANAND PATEL
1102.	47S_BE_1998	EMBEDDED SMART SHOES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. NATARAJ A. VIJAPUR	Mr. JAYANTHI PAVAN SATHVIK Mr. ANKIT PARAM Ms. GREESHMA BHARATH Ms. UMA GURUPRASAD
1103.	47S_BE_4960	ENVISION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. KIRANKUMAR K.	Mr. NAVEEN KRISHNA BHAT S. Mr. VISHAL ANIL BAJPAI Mr. SHASHANK DEVASHEETY Mr. MUDIT KUSHWAHA
1104.	47S_BE_3558	PERFORMANCE INVESTIGATION OF EVACUATED TUBE SOLAR COLLECTOR USING NANO FLUIDS FOR HEATING APPLICATIONS	B.E.	MECHANICAL ENGINEERING	Dr. LOKESH P. Dr. C. SOLAIMUTHU	Mr. SHASHANK KARIGOWDA Mr. DEVA ADITHYA BOBBY Mr. PUNITH SIDDAYA GOWDA
1105.	47S_BE_3926	DESIGN AND DEVELOPMENT OF DRONE WITH A SINGLE ARM 3-D OF ROBOTIC MANIPULATOR	B.E.	MECHANICAL ENGINEERING	Dr. RAMESH S.	Mr. VISHNU PETKAR Mr. SHOBIT MAHATO Mr. MANOJ KUMAR E.

141. RAJARAJESWARI COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1106.	47S_BE_4577	DEVELOPMENT OF NLP-POWERED SEMANTIC ANALYSIS FOR DOCUMENT UNDERSTANDING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. DEEPA K. R.	Mr. VENKATESH K. Mr. NARESH A. Mr. SRUJANSHEEL M. S.
1107.	47S_MCA_0070	CITY CULTIVATOR: SMART URBAN FARMING TECH	M.C.A.	COMPUTER APPLICATIONS	Mr. DEERAJ C. Dr. T. SUBBURAJ	Mr. LAKSHMI KANTHA T. M. Mr. NAGENDRA KUMAR K. S. Mr. NIRMAL RAO S. Mr. KIRAN KUMAR S.
1108.	47S_BE_4227	FINDING SUSPECT AND MISSING PERSON THROUGH CCTV FOOTAGES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. D. KIRUBHA	Mr. SHIVAKUMAR B. S. Mr. SHREENIDHI P. Mr. SANGAMESH
1109.	47S_BE_4880	GESTURE CONTROLLED MISSILE LAUNCH USING ZIGBEE AND ARDUNIO	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. UDHYAMI M. B.	Ms. SEETHA LAKSHMI PEROTH Ms. RIDA SHARIFF A. Ms. SHIVAMANI C. R.
1110.	47S_BE_0712	AUTISM CARE SYSTEM FOR IMPROVING COGNITIVE ABILITY OF CHILDREN USING AI AND IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. S. M. VIJAYA	Mr. MOHAMMED TAHIR HUSSAIN Ms. PRUTHVI SHREE S. N. Ms. RAKSHA M. Mr. UJWAL E.
1111.	47S_BE_1773	SMART STROKE PREDICTION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. V. SREEPATHI Prof. SURESH M.	Ms. POORNIMA R. Mr. AKSHAY KUMAR R. Mr. DEEPAK L. Ms. DHANUSHREE N. A.
1112.	47S_BE_1864	SMART SELF DEFENCE BAND FOR WOMEN SAFETY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. DEEPIKA J. Prof. HARITHA K. SIVARAMAN	Ms. AISHWARYA M. Mr. K. JAI AKHIL Ms. LIKITHA S. Mr. RAKSHITH S.
1113.	47S_BE_3240	INNOVATION IN TRAIN DEFECT RESOLUTION	B.E.	ELECTRONICS AND	Prof. AJAY M. Prof. SANTOSH CHAVAN	Ms. KALPITHA R. GOWDA Mr. JATHIN B. R.

				COMMUNICATION ENGINEERING		Mr. SRINIDHI R. K. Mr. M. SHIVA KRISHNA
1114.	47S_BE_4619	DETECTION OF ATTACKS IN NETWORK USING MACHINE LEARNING ALOGITHMS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Ms. SINCHANA M. N.	Mr. VIJAY G. Mr. SAGAR D. Mr. SATHWIK C. B.
1115.	47S_BE_4660	BRAIN TUMOR DETECTION AND CLASSIFICATION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Ms. SINCHANA M. N.	Mr. LOHITH T. V. Mr. RAVI KUMAR N. Mr. ROHAN S.
1116.	47S_BE_4851	DETECTION OF CARDIAC ARRHYTHMIA	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. DINESHKUMAR M.	Mr. AMOGH M. Mr. CHIRAG G. J. Mr. KUSHAL K.

142. RAJEEV INSTITUTE OF TECHNOLOGY, HASSAN

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1117.	47S_BE_1856	CARICA PAPAYA AND TAMARINDUS INDICA AS NATURAL COAGULANT FOR TREATMENT OF WASTE WATER FROM FOOD INDUSTRY	B.E.	CIVIL ENGINEERING	Mr. MANJUNATH H. S.	Mr. DARSHAN S. S. Mr. ABHSHEK H. M. Mr. KIRAN B. M.
1118.	47S_BE_2930	PREDICTION OF PADDY GROWTH USING MACHINE LEARNING TECHNIQUES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. SAHANA G. C. Mr. GANAPATHI AVABRATH	Ms. PRAGATHI M. P. Ms. ROHINI H. K. Ms. RIYA J. SINTRE Ms. YASHASWINI J. S.
1119.	47S_BE_2401	AUTOMATED SHOPPING TROLLEY FOR SUPER MARKET BILLING SYSTEM	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. VELU A.	Mr. JEEVAN M. M. Mr. DARSHAN H. M. Mr. VINAYPRASAD H. M. Ms. SAHANA S. M.
1120.	47S_BE_3329	IDENTIFICATION OF BEST MULTILEVEL INVERTERS WITH THE ANALYSIS OF DIFFERENT TOPOLOGY TO REDUCE THD REDUCTION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. NAGENDRA PRASAD H. K.	Mr. DAYANANDA M. K. Mr. SUKOUSHIK V. C. Mr. SHASHANK H. Y.
1121.	47S_BE_2412	AUTOMATED TRAIN SYSTEM AND SPEED CONTROL SYSTEM FOR AUTOMOBILES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. REKHA M. G Mr. ROHITH P.	Mr. SWAGATH B. J. Mrs. AISHWARYA Mrs. POORVIKA H R Mrs. RASHMITHA S.
1122.	47S_BE_1824	ENHANCING BRAIN TUMOR IDENTIFICATION THROUGH CONVOLUTIONAL NEURAL NETWORK ON MRI IMAGES	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. PRATHIBHA G. Mr. ANIL KUMAR K. N.	Ms. MUKTHI A. Ms. BHOOMIKA M. Ms. RUCHITHA J. L. Ms. THANUSHREE H. G.
1123.	47S_MBA_0108	SANJEEVINI - FOR AGRICULTURAL SUSTAINABILITY	MBA	MARKETING	Prof. BHAVANI B. S. Mrs. PRIYA H. V.	Mr. SHANTHI PRIYA K. B. Mr. SHARATH R. N. Ms. POONAM Y. KITTUR Ms. SMITHA H. C.
1124.	47S_BE_1739	PERFORMANCE AND EMISSION CHARACTERISTICS OF DIESEL ENGINE USING METHYL ESTER OF TERMINALIA BELLIRICA OIL AND BLENDED DIESEL AT DIFFERENT INJECTION OPENING PRESSURE	B.E.	MECHANICAL ENGINEERING	Dr. DHANANJAYA D. A. Dr. KULDEEP B.	Mr. AKSHAY K. S. Mr. DHANUSH H. C. Mr. GOWTHAM V. R.

143. RAJIV GANDHI INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1125.	47S_BE_3132	SHIKSHAKENDRA - THE EPITOME OF EDUCATIONAL ELEGANCE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. RUBY CHAUHAN	Mr. KUMAR MUKTESHWAR Ms. R. SADIYA Ms. RABIYA KOUSER R.

144. RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1126.	47S_BE_3768	HARNESSING NON-THERMAL PLASMA IN AGRICULTURE: UNDERSTANDING ITS INFLUENCE ON SEEDS AND PLANT PHYSIOLOGY	B.E.	BIO TECHNOLOGY	Dr. PRIYADARSHINI DEY	Mr. SUHAN G. H. Ms. ANSHUMAN V. Mr. S. CHANDRAMOULI Ms. SANGEETHA P. A.
1127.	47S_BE_4490	VARIATIONS OF EHEC POLYMER MEMBRANE FOR PERVAPORATION: COMPOSITION, EFFECTS AND PERFORMANCE EVALUATION	B.E.	CHEMICAL ENGINEERING	Dr. ASHWINI WALI	Ms. SPANDANA SAMYUKTHALAKSHMI MENTHA Mr. YASH MISRA Mr. ABHIJOY GHOSAL Mr. PRIYANSHU YADAV
1128.	47S_BE_4298	RESILIENT MODULUS OF GEOSYNTHETIC REINFORCED RECYCLED AGGREGATES	B.E.	CIVIL ENGINEERING	Dr. ASHA M. NAIR	Mr. CHANDRA SHEKAR V. Mr. KIRAN H. S. Mr. BASAVARAJ BIRADAR Mr. RAHUL

1129.	47S_MTech_0036	SMART ASSISTIVE DEVICE: AI-DRIVEN OBJECT RECOGNITION AND WIRELESS CONNECTIVITY FOR THE VISUALLY IMPAIRED	M.Tech	COMPUTER NETWORKING	Dr. SANGEETHA V. Prof. MAMATHA A.	Ms. KOMAL S. ROKHADE
1130.	47S_MTech_0074	MEDICAL TRAINING USING VIRTUAL REALITY	M.Tech	COMPUTER SCIENCE AND ENGINEERING	Dr. S. RAJARAJESWARI	Ms. ALISHA AHMED
1131.	47S_BE_4590	IMPROVED CHEST X-RAY DIAGNOSIS USING DEEP LEARNING FOR MULTI-CLASSIFICATION OF PATHOLOGIES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. PRADEEP KUMAR D. Dr. ANITA KANAVALLI	Mr. S. D. HRUDHAY Mr. SAJAL SRIVASTAVA Mr. SAMYAK JAIN Mr. SHASHANK SINGH
1132.	47S_MTech_0120	REDEFOG REAL TIME DETECTION OF FREEZING OF GAIT IN PARKINSONS PATIENTS USING CNN BASED SYSTEM	M.Tech	COMPUTER SCIENCE AND ENGINEERING	Mr. PRADEEP KUMAR D.	Mr. ASHVIN VINCENT
1133.	47S_BE_2177	IOT BASED SAFETY DEVICE FOR DEMENTIA PATIENTS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. MAMTHA MOHAN	Ms. SRIGOURI ANEGUNDI Mr. SALIQ ARSHID Mr. SHAFKAT BANO Mr. YUVRAJ SINGH
1134.	47S_BE_2124	INNOVAGE: REVOLUTIONIZING ELDER CARE THROUGH INTEGRATED HEALTH MONITORING AND EMERGENCY RESPONSE	B.E.	ELECTRONICS AND INSTRUMENTATION ENGINEERING	Dr. NISHI SHAHNAJ HAIDER	Ms. ALANKRITI JAIN Mr. ANSH JAIN Mr. PRATYUSH SINHA Mr. SHASHANK TIWARI
1135.	47S_BE_1197	CARBONATE BASED CONVERSION COATING ON MG ORTHOPAEDIC IMPLANTS: IN VITRO STATIC AND FLOW DEGRADATION STUDIES	B.E.	MECHANICAL ENGINEERING	Dr. PRAKRATHI S.	Mr. K. MANJUNATH Mr. CHANDAN KUMAR KATTE M. Mr. VIVEK MURTHY Mr. HARSHA VARDHAN B.
1136.	47S_BE_5173	RETROGRESSION AND REAGING EFFECT ON THE STRESS CORROSION AND FATIGUE BEHAVIOUR OF AL7050-B4C AEROSPACE COMPOSITES	B.E.	MECHANICAL ENGINEERING	Dr. RAJENDRA P.	Mr. SANKETH M. PATIL Mr. YATHIN K. M. Mr. SURESHA P. N. Mr. RITHIK D. JAIN
1137.	47S_MTech_0019	INFLUENCE OF NANO-SILICA, MAGNESIUM OXIDE AND ALUMINA ON EFFLORESCENCE BEHAVIOUR OF LOW CALCIUM ALKALI ACTIVATED MATERIALS	M.Tech	STRUCTURAL ENGINEERING	Dr. LAKSHMIKANTH S.	Ms. TAHA MISBA
1138.	47S_MTech_0028	CHARACTERIZATION OF MECHANICAL PROPERTIES OF PAVEMENT QUALITY CONCRETE INCORPORATED WITH SUSTAINABLE FLY ASH AGGREGATES	M.Tech	STRUCTURAL ENGINEERING	Dr. LAKSHMIKANTH S. Dr. VIVEK R. DAS	Mr. MOHAMMED SAQIB

145.RANI CHANNAMMA UNIVERSITY, BELAGAVI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1139.	47S_MSC_0013	BIOGENIC SYNTHESIS OF NITROGEN DOPED CARBON QUANTUM DOTS FOR THE TREATMENT OF TEXTILE EFFLUENTS AND DYE DEGRADATION	M.Sc	CHEMISTRY	Prof. K. KANTHARAJU	Mr. SHARANABASAVA MALIPATIL Ms. SUSHMA MUGALI Ms. SANGEETA TALAWAR
1140.	47S_MSC_0015	DESIGN, SYNTHESIS, CHARATERIZATION AND APPLICATIONS OF DOPED (SCQDS AND PCQDS) AND UNDOPED CARBON QUANTUM DOTS (CQDS)	M.Sc	CHEMISTRY	Prof. K. KANTHARAJU	Ms. MANJUSHA BADIGER Ms. ALFIYA SAYYAD Ms. JAYASHRI N PATIL
1141.	47S_MSC_0024	ADVANCING BIOSENSOR TECHNOLOGY USING POLYMER -METAL OXIDE COMPOSITES	M.Sc	CHEMISTRY	Dr. VIDYASAGAR C. C.	Mr. SIDRAMAPPAGOUDA K PATIL Ms. MEENAKSHI S. KUMBAR Ms. BHAGYASHREE S. BHAJANTRI
1142.	47S_MSC_0031	SILVER/GRAPHENE OXIDE AND SILVER OXIDE/GRAPHENE NANOCOMPOSITES FOR FUEL CELL APPLICATION	M.Sc	CHEMISTRY	Dr. P.M. GURUBASAVARAJ	Ms. ANJALI M. DATTAWADE Mr. SOMANNA
1143.	47S_MSC_0026	NATURALLY DERIVED FLUOROSCENCE COPPER AND SILVER QUANTUM DOTS FOR CATALYTIC REDUCTION OF HARMFUL ORGANIC INDUSTRIAL EFFLUENTS	M.Sc	NANO CHEMISTRY	Dr. P.M. GURUBASAVARAJ	Ms. SUSMITA M. TUPALE Mr. MEGHRAJ M OULKAR

146. RAO BAHADUR Y. MAHABALESWARAPPA ENGINEERING COLLEGE, BALLARI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1144.	47S_BE_5243	SOLAR SEA WATER DESALINATION MACHINE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. S. KOTRESH Mr. VINAY HAVINAL	Ms. SHEETAL FATHIMA LOPES Ms. AMBIKA K. Mr. PRAMOD KUMAR R. V. Mr. NAVEEN GOUDA R. V.

147. REVA UNIVERSITY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1145.	47S_BE_0011	SMART TEMPERATURE AND HUMIDITY TRACKING SYSTEM USING IOT	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. G. ARULKUMARAN	Mr. C. S. S. S. VENKAT Mr. BORRA BHAVESH REDDY
1146.	47S_BE_0017	AI-POWERED MODEL FOR ARECA NUT QUALITY ANALYSIS AND DISEASE DETECTION	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. SINDHU P. MENON	Mr. CHETHAN Ms. ANAGHASHREE RANGADHOL R. Ms. SIRISHA S. YADAV Mr. MAHANTESH HUNAKUNTI
1147.	47S_BE_0055	DESIGN OF AN AI-ENABLED CRIME VALUE INDEX EVALUATION SYSTEM FOR GEO-LOCATION BASED ON CRIME DATA ANALYSIS	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. ARUL KUMARAN	Mr. FRANKLYN EMMANUEL Mr. JOEY TOBGYE SHAH Mr. SHREYAS MAGADUM
1148.	47S_MSC_0009	INTEGRATED PEST MANAGEMENT STRATERGIES AND ESTERASE ANALYSIS FOR CONTROLLING FALL ARMYWORM INFESTATIONS IN GRAMINAEAE CROPS: A STUDY ON THE ROLE OF TEPHROSIA PURPUREA AND PORTULACA OLERACEA EXTRACTS.	M.Sc	BIOCHEMISTRY	Dr. SHARADAMMA N. Dr. RAMESHKUMAR KUSHWAHA	Ms. C. SUDHA MAYU Ms. SUSHMA SUNKAD Mr. GANESH K. L.
1149.	47S_MSC_0040	MICROPLASTIC DEGRADATION USING SALT TOLERANT BACTERIAL ISOLATES	M.Sc	BIOTECHNOLOGY	Dr. HEVAMAVATHI	Ms. PAVITHRA S. Ms. PRITHVIKA R. Ms. PRIYANKA S
1150.	47S_MSC_0123	DESIGNING AND DEVELOPMENT OF A BIOPESTICIDE MICROENCAPSULATION TRAPS USING INDIGENOUS HERBAL PLANT EXTRACT ON AGRICULTURAL CROP PESTS IN KARNATAKA.	M.Sc	BIOTECHNOLOGY	Dr. NEETHU B. K. Dr. YUVASHREE M.	Ms. NIVETHA P. Ms. PRAVEENA P. Ms. VAISHNAVIKIRAN MALGE Ms. ISHA RAJUBHAI PATEL
1151.	47S_BE_3175	COST OPTIMIZATION OF CEMENT CONCRETE PAVEMENT USING TREATED RECYCLED CONCRETE AGGREGATES	B.E.	CIVIL ENGINEERING	Dr. NANDINI D. N. Dr. KANNAM PRAVEEN	Mr. SWARAN R. Mr. M. K. RAHUL NAIK Mr. VINOD N. Mr. PRAJWAL
1152.	47S_BE_3459	TREATMENT OF GREY WATER WITH BIOCHAR USING HORIZONTAL FLOW CONSTRUCTION WETLAND	B.E.	CIVIL ENGINEERING	Dr. VINOD N. TAMBURI Dr. PRAVEEN MATH	Ms. NAVYA M. Mr. NAVEENAKUMAR HIREMATH Mr. SANJAY Mr. KIRAN
1153.	47S_MCA_0057	DEVELOPING A VISION-BASED HEART ATTACK DETECTION SYSTEM FOR VEHICLES, TO IMPROVE ROAD SAFETY AND PASSENGER WELL-BEING	M.C.A.	COMPUTER APPLICATIONS	Dr. HEMANTH K. S.	Ms. RITIKA MANJUNATH NETALKAR Mr. SURYA M. M.
1154.	47S_BE_0059	SOCIAL MEDIA SENTIMENT ANALYSIS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. GEETHA D.	Ms. R. NISARGA Mr. MANTESH M. C. Mr. MANISH B. R. Mr. PUSHPAK KUMAR P.
1155.	47S_BE_0724	AI - POWERED VISUAL ASSISTANCE: DEVELOPING AN ANDROID APPLICATION FOR ENHANCED ACCESSIBILITY IN THE VISUALLY IMPAIRED COMMUNITY.	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. CHAITHRA M. H.	Mr. AKSHAY WALI Mr. T. A. DHEERAJ GOWDA Mr. MANOJ OMPRAKASH HULLI Mr. MANJUNATH S.
1156.	47S_BE_0836	HARVEST HARMONY: CULTIVATING YIELD WITH AN INTELLIGENT CROP RECOMMENDATION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. B. MUTHU KUMAR	Mr. PRASANNA KUMAR SHETTY Mr. M. VENKATESH Ms. PUSHPA N.
1157.	47S_BE_0918	AUTONOMOUS VEHICLE COLLISION AVOIDANCE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHILPA V.	Ms. BHANU PRIYA J. S. Ms. BHAVYA SHIVANI Ms. LAVANYA C. S.
1158.	47S_BE_0950	SMART VEHICLE SURVEILLANCE SYSTEM FOR CRIME PREVENTION USING MACHINE LEARNING AND INDUSTRIAL IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NIKHIL S. TENGLI	Mr. SPANDAN D. KOTYAN Ms. SNEHA S. PATIL Ms. PRIYADARSHINI J.

1159.	47S_BE_1278	SMART ASSISTIVE FRAMEWORK FOR BLIND, DEAF AND DUMB PEOPLE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ANOOJA ALI	Ms. JAHANVI B. S. Ms. HEMA PRIYA A. Ms. ISHA Y. Ms. KUSUMA G.
1160.	47S_BE_1512	ANALYSIS AND DETECTION OF AUTISM SPECTRUM DISORDER(ASD) USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. M. SHOBHA RANI	Mr. KADAPA KARIM Mr. ALLURI VENKATA SAI Mr. DHEERAJ RAGHAVENDRA TARAK M. Mr. JOGI OM SAI SANTOSH
1161.	47S_MTech_0037	EARLY DETECTION OF ALZHEIMERS DISEASE USING COGNITIVE FEATURES A VOTING BASED ENSEMBLE MACHINE LEARNING AND DEEP LEARNING APPROACH	M. Tech	COMPUTER SCIENCE AND ENGINEERING	Dr. K. AMUTHABALA	Ms. NAVYASHREE
1162.	47S_BE_2176	SEWAGE MONITORING AND BLOCKAGE DETECTION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VIVEK SHARMA S.	Ms. KAVYA S. Ms. RAMYA M. S. Mr. MURALI D.
1163.	47S_BE_2534	AGRICULTURE ASSISTANT USING LLM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHRUTHI G.	Mr. DILEEP CHANDRU S. Mr. DIDONEHAL N. GOWDA Mr. SRIKANTH G. Mr. AKSHAY T.
1164.	47S_BE_3194	MORSE CODE BASED SECURE AUTHENTICATION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NAYANA R.	Mr. SHASHANK S. RAICHUR Ms. SHREYANKA S. B. Mr. SHASHANK M. Mr. ABHISHEK R.
1165.	47S_BE_5437	AI- ASSISTED TELE-MEDECINE PORTAL FOR RURAL INDIA	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ARGHA SARKAR	Ms. AISHWARYA S. HIREMATH Mr. SUHAS M. C. Ms. WAMIKA S. Mr. YALLALING
1166.	47S_BE_3725	SECURED FILE TRANSMISSION FOR PRINTING USING WIFI	B.E.	COMPUTER SCIENCE AND ENGINEERING - INFORMATION SECURITY	Prof. ARATI CHABUKSWAR	Ms. MEGHADARSHINI S. Mr. MANOJ GOWDA V. Mr. VINAY KUMAR C. N. Ms. LEELAVATHI C.
1167.	47S_MSC_0092	INTEGRATING NEURO-SYMBOLIC AI FOR ACCURATE BRAIN TUMOR DETECTION IN MRI IMAGING	M.Sc	DATA SCIENCE	Dr. HEMANTH K. S.	Ms. TIGULLA DEEPIKA Ms. VIDYA LAKSHMI
1168.	47S_MSC_0138	TIME SERIES-BASED ANALYSIS OF ENERGY CONSUMPTION: FORECASTING AND ANOMALY DETECTION USING MODIFIED LSTM AND ISOLATION FOREST	M.Sc	DATA SCIENCE	Dr. RAJEEV RANJAN	Ms. MADHU SHREE M. Ms. DECHAMMA M. P.
1169.	47S_MSC_0159	TOMATO LEAF DISEASE CLASSIFICATION USING TRANSFER LEARNING MODELS	M.Sc	DATA SCIENCE	Mrs. VIJAYALAXMI P. CHINIWAR	Mr. DHANUSH RAJU C. M. Ms. S. N. OHILA
1170.	47S_BE_0012	THERMAL MANAGEMENT SYSTEM FOR ELECTRIC VEHICLE BATTERY BANK: IMPROVING PERFORMANCE AND SAFETY	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. BANSILAL BAIRWA	Mr. GNANDEEP B. G. Ms. GAGANASHREE S. Mr. ROHAN S.
1171.	47S_BE_0644	DUAL AXIS SOLAR TRACKER USING ARDUINO UNO	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. K. NARAYANA SWAMY	Mr. NANDINI A. Ms. POOJITHA S. Ms. MONIKA N. Ms. THANUSHREE Y. S.
1172.	47S_MTech_0008	COMPARATIVE ANALISIS OF INTELLIGENT CONTROL TECHNIQUES FOR POWER QUALITY IMPROVMENT IN INDUSTRIAL DRIVES	M. Tech	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. BHARGAVI K. M.	Ms. SHARANYA P. L. Mr. LOHITH C. R. Ms. SAGARIKA B. S.
1173.	47S_BE_0874	REAL TIME CRACK DETECTION USING AI	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. DODDABASAPPA N. Ms. SEEMA MAGADUM	Mr. PAVAN KUMAR G. Ms. A. P. MONISHA Mr. PRAPUL T. P. Mr. MOHAMMED AFRIDI
1174.	47S_BE_1750	TESLA TOWER	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. SUDHAKAR RAO P.	Mr. DEVANSH KANSAL Mr. ADITYA SINGH Mr. GOWTHAM GOWDA H. R.
1175.	47S_BE_2042	LIDAR BASED SELF DRIVING CAR	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. MAHESH KUMAR	Ms. P. SRUJANA Ms. NAMITHA G. S. Ms. SHRUTHI SHRIDHAR
1176.	47S_BE_2513	SMART MONITORING OF ENERGY METER	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. ARPITA BANIK	Mr. NISHANTH GOWDA K. R. Mr. ROOPESHA K. L. Mr. SANGAMESH Mr. VINAY KUMAR S. N.
1177.	47S_BE_2533	UNMANNED SMART FIRE FIGHTING SYSTEM FOR FOREST AND WILDLIFE PROTECTION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. ASHWINI KUMARI P. Dr. BANSILAL BAIRWA	Mr. KIRAN Y. S. Mr. KARAN P. Mr. GAGAN K. Mr. MANONAR N.

1178.	47S_BE_2791	REAL TIME SOLAR EMULATOR MODULE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. ASHWINI KUMARI P.	Mr. HANAMANTARAYA S. Mr. ABHISHEK REDDY Mr. DEEPAK S. M.
1179.	47S_BE_3083	DESIGN AND CONVERSION OF IC ENGINE INTO HYBRID VEHICLE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. PAVAN B.	Ms. MALA C. S. Ms. K. YOGESWARA REDDY Ms. SUPRAJA B. Ms. CHIDRE PRATHIKSHA
1180.	47S_BE_3115	DESIGN-DEVELOPMENT AND ANALYSIS OF CN2R-PI CONTROLLER ENABLED 5KWATT DFIG (WIND ENERGY) FOR ENSURING UNINTERRUPTED ENERGY SUPPLY IN CRITICAL MILITARY OPERATIONS.	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. RITESH DASH	Mr. L. INDRA Ms. VAIBHAVI CHANABASU KATATE Ms. NAMRATHA S. Ms. LAXMI SADANAND HANJAGI
1181.	47S_BE_5010	CONNECTED DRIVE GUARD: A SMART IOT FRAM WORK FOR ENHANCED VEHICAL SAFETY AND MONITORING	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. GOPINATH A.	Mr. CHETHAN G. Mr. SACHIN B. V. Mr. CHETHAN S. Ms. ASHWINI S.
1182.	47S_BE_3983	DESIGN AND DEVELOPMENT OF AUDIO DATASET FOR A DIFFERENT APPLICATIONS OF SPEECH TECHNOLOGY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. BHARATH K. P.	Ms. APOORVA G. Ms. ANANYA S. Mr. MOHAN BABU T. N.
1183.	47S_BE_4294	SOLAR ENERGY HARVESTING LDO'S FOR WEARABLES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. PALLAVI R.	Mr. MAHABALESH H. Mr. MANAV J. Mr. IRUGULA ESHWAR REDDY V. Mr. BALAVENKATAGIRI MUNI KUMAR REDDY
1184.	47S_BE_4995	NOISE TO ELECTRICITY GENERATOR FOR CHARGING ELECTRIC VEHICLES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. DILNA U.	Ms. KARANAM NIKSHITHA Ms. GANJIKUNTA CHETHANA Ms. M. SRAVYA Mr. AVULURI NAGARJUNA REDDY
1185.	47S_BE_4744	SAMBHAVANA AI: TONE ANALYSIS FOR EMOTIONAL WELL BEING FOR ELDERLY PERSON	B.E.	ELECTRONICS AND COMPUTER ENGINEERING	Dr. CHAYA RAVINDRA	Mr. MANU N. R. Mr. MANOJ S. Mr. LOHITH S. Mr. MOHAN T. S.
1186.	47S_BE_4781	WIRELESS CHARGING FOR ELECTRIC CARS IN PARKING STATION	B.E.	ELECTRONICS AND COMPUTER ENGINEERING	Dr. PRABHAKAR M.	Mr. T. VENKAT CHARAN Mr. AJAY KUMAR M. J. Mr. BHANU PRAKASH N. Mr. RAVI KUMAR
1187.	47S_MTech_0110	HARDWARE IMPLEMENTATION OF NOC TOPOLOGIES	M.Tech	ELECTRONICS AND COMPUTER ENGINEERING	Dr. SANJU V.	Mr. CHURANTA MONDAL Ms. CHANDANA C. SAVALGIMATH Mr. SIDDARTH SANGAVI
1188.	47S_MSC_0198	POLY (METHYL METHACRYLATE) / CARBON NANOTUBE / GRAPHENE COMPOSITES BASED CONDUCTING INK FOR PRINTING CIRCUITS ON PAPER AND POLYMER SHEETS USING INKJET PRINTER	M.Sc	ELECTRONICS AND COMPUTER ENGINEERING	Dr. D. PRAKASHBABU Dr. M. PRAVEEN	Ms. SUPREETH S. B. Ms. DHANMINI R. Ms. RAJASHREE ROY
1189.	47S_MCA_0071	CLOUD COMPUTING AND DEEP LEARNING ASSISTED INTRUSION DETECTION SYSTEM FOR INTERNET OF MULTIMEDIA THINGS (IOMT).	M.C.A.	ELECTRONICS AND COMPUTER ENGINEERING	Dr. RAJEEV RANJAN	Ms. DIANA URS T. J. Mr. ABHISHEK G.
1190.	47S_BE_0083	BIOMETRIC ACCESS CONTROL: FACIAL RECOGNITION AND QR CODE BASED SECURITY SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. RAVISHANKAR GOWDA Dr. SANDHYA G.	Mr. VISHAL YOGISH RAO Mr. NISHANT RAWAT Ms. SINDHUJA CHOWDARY
1191.	47S_MBA_0055	NAMMA SMART GARBAGE MONITORING SYSTEM (NSGMS)	MBA	MBA	Dr. NANTHINI M. Mr. VINUMON V. S.	Ms. KUSUMA U. Ms. MAHALAKSHMI K. P. Mr. JIGAR AJAY SHA Mr. KESHAV S.
1192.	47S_BE_2092	DESIGN AND ANALYSIS OF HYDRO JETTING NOZZLE	B.E.	MECHANICAL ENGINEERING	Dr. NIKHIL RANGASWAMY	Mr. CHIRAG GOWDA P. Mr. RAHUL C. REDDY Mr. S. VISHAL
1193.	47S_BE_2319	DESIGN AND DEVELOPMENT OF AUTOMATED WATER SURFACE CLEANING DEVICE FOR LAKES AND PONDS	B.E.	MECHANICAL ENGINEERING	Prof. SRINIVAS S.	Mr. MANOJ D. S. Mr. M. NIDHEESH PATEL Mr. TEJASWI G. M. Mr. KUNAL MUTHA
1194.	47S_BE_2693	TO DEVELOP MULTIPURPOSE AGRI VEHICLE TO REDUCE THE FARMERS EFFORT	B.E.	MECHANICAL ENGINEERING	Dr. SHAMANTH V. Dr. AVINASH S.	Mr. ANUDEEP KUMAR P. R. Mr. JEEVAN GOWDA T. Mr. CHETHAN M. Mr. NITHESH PRASAD H.
1195.	47S_BE_2777	DESIGN AND FABRICATION OF SOLAR POWERED SMART GARDEN CLEANER	B.E.	MECHANICAL ENGINEERING	Prof. KARTHIK S.	Mr. SRINATH S. Mr. YASHWANTH N. Mr. SUDARSHANA A. D. Mr. HARSHA C.
1196.	47S_BE_3055	DESIGN AND FABRICATION OF TREE PLANTATION MACHINE	B.E.	MECHANICAL ENGINEERING	Prof. MADHU B. P.	Mr. VEERABHADRA S. RONAD

						Mr. B. SUHAS PATIL Mr. CHARAN D. Mr. RAHUL S. K.
1197.	47S_BE_3160	DEVELOPMENT OF IOT BASED LOW-COST 3D PRINTER	B.E.	MECHANICAL ENGINEERING	Dr. MANJUNATH G. K.	Mr. P. MANOJ KUMAR Mr. RAVINDRA MEKA Mr. MOHAMMED SAFVAAN NIHAL Mr. MOHAMMED ALI AFZAL KOUNNAIN
1198.	47S_BE_5323	IOT BASED LOW-COST ELECTRIC MOBILITY VEHICLE	B.E.	MECHANICAL ENGINEERING	Dr. MANJUNATH G. K.	Mr. NARENDRA G. Mr. ARAVINDA K. S. Mr. DEEPAK T. M. Mr. HARSHITH GOWDA K. R.
1199.	47S_BE_5482	DESIGN AND DEVELOPMENT OF MULTIPURPOSE -CROP CUTTING MACHINE	B.E.	MECHANICAL ENGINEERING	Prof. MADHU B P	Mr. HARSHAVARDHAN REDDY M. Mr. DARSHAN R. Mr. MUKUNDA B. Mr. NANDISH A.
1200.	47S_BE_2292	DESIGN AND FABRICATION OF VERTICAL TAKE OFF AND LANDING AIRCRAFT	B.E.	MECHATRONICS ENGINEERING	Dr. VIJEE KUMAR	Mr. YASHASS E. Mr. SUMITH B. L. ULINA Mr. THANUSH R. Mr. VISHAL B. N.
1201.	47S_BE_3250	GO-KART USING HYBRID POWER SOURCE	B.E.	MECHATRONICS ENGINEERING	Dr. A. G. KARTHIKEYAN	Mr. HANUMANTHA Y. Mr. CHARAN KUMAR N. Mr. KARAN NARENDRA
1202.	47S_MSC_0072	BIODEGRADATION OF CIPROFLOXACIN USING MICROBIAL APPROACH	M.Sc	MICROBIAL TECHNOLOGY	Dr. ANKITA CHATTERJEE	Ms. PRIYANSHI KALKHUDIYA
1203.	47S_MSC_0220	DEVELOPMENT OF CARBON QUANTUM DOTS - NANOCOMPOSITES FOR WASTE WATER TREATMENT	M.Sc	PHYSICS	Dr. SUNITHA D. V.	Mr. MAHESHWAR PATIL Ms. NANDITHA E. Ms. DEEPTHI G.
1204.	47S_MTech_0006	OPTIMAL PLANNING AND OPERATION OF GRID-CONNECTED PV/CHP/BATTERY ENERGY SYSTEM CONSIDERING DEMAND RESPONSE AND ELECTRIC VEHICLES FOR A MULTI-RESIDENTIAL COMPLEX BUILDING	M. Tech	POWER AND ENERGY SYSTEMS	Dr. RITESH DASH Dr. K. JYOTHEESWARA REDDY	Ms. MISBA FATHIMA
1205.	47S_MTech_0007	DESIGN AND DEVELOPMENT OF PI CONTROLLER FOR DFIG GRID INTEGRATION USING NEURAL TUNING METHOD ENSEMBLED WITH DENSE PLEXUS TERMINALS	M.Tech	POWER AND ENERGY SYSTEMS	Dr. K. JYOTHEESWARA REDDY Dr. RITESH DASH	Ms. ANUPALLAVI L.
1206.	47S_MTech_0089	SUSTAINABILITY EVALUATION AND MODELLING OF INTEGRATION BETWEEN METRO AND FEEDER BUSES: A CASE STUDY OF BENGALURU CITY METRO IN INDIA	M.Tech	TRANSPORTATION ENGINEERING	Dr. SEELAM SRIKANTH REDDY	Ms. GAGANA M. R.

148. S.D.M. COLLEGE OF BUSINESS MANAGEMENT, POST GRADUATE CENTRE FOR MANAGEMENT STUDIES AND RESEARCH, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1207.	47S_MBA_0065	EXPLORING THE ISSUES INVOLVED IN DISPOSAL OF SANITARY PADS AND CHALLENGES OF MENSTRUAL HEALTH	MBA	MBA	Dr. PRAMEELA S. SHETTY	Ms. SHREYAS Mr. MANISH BANGERA Ms. SONALI Mr. NAGARJUNA B. T.
1208.	47S_MBA_0069	A MARKET STUDY ON ASSESSING THE ACCEPTANCE OF THE USE OF MENSTRUAL CUPS AMONG WOMEN IN DAKSHINA KANNADA DISTRICT	MBA	MBA	Mr. DAWN PRAKASH	Ms. DHANYA Ms. KEERTHANA N. Ms. DEEPIKA Ms. SHRAVANA

149. S.D.M. COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1209.	47S_BE_1745	BIO- NANOCOMPOSITE FILMS BASED ON CHITOSAN WITH ZnO NANOPARTICLES AND ANTHOCYANIN FOR SMART PACKAGING APPLICATION	B.E.	CHEMICAL ENGINEERING	Dr. RASHMI S. H.	Mr. DHANUSH HOLLA K. Mr. SHANMUKH BASAVARAJ MUGALI Mr. TARIQ ZUMAIR
1210.	47S_BE_1633	UTILIZATION OF BAUXITE ORE TAILINGS AS PARTIAL REPLACEMENT OF CEMENT IN CONCRETE PAVERS	B.E.	CIVIL ENGINEERING	Prof. GAVISIDDESH S. MAJJAGI	Mr. KIRAN R. BARGI Mr. KARTIK C. G. Mr. BHARATH VASTRAD

						Mr. RAGHAVENDRA REDDY M. D.
1211.	47S_BE_3411	ASSESSMENT OF STORM WATER DRAINS: A SURVEY APPROACH IN A WARD OF DHARWAD	B.E.	CIVIL ENGINEERING	Prof. VISHWANATHA BHAT	Mr. LIKHITH M. BANAM Mr. VINAYAK SATISH VERNEKAR Mr. VINAYAK VASU BHAT Mr. SUDEEP PATIL
1212.	47S_BE_4894	LAKE WATER QUALITY ASSESSMENT USING SOFT COMPUTING TECHNIQUES	B.E.	CIVIL ENGINEERING	Dr. SHRUTI KAMBALIMATH S.	Ms. PALLAVI BASAVARAJ MADALLI Ms. POOJA MALLIKARJUN YADIYAPUR Ms. NANDITA YALLAPPA HAVERI
1213.	47S_BE_3054	FIREFIGHTING DRONE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. T. M. TIMSANI Mr. SHEKHAPPA ANKALIKI	Mr. SHASHANK SATISHKUMAR JOSHI Ms. SAVITA V. MURALE Ms. SHEETAL R. DIVAKAR Mr. SHASHIDAR S. ANGADI
1214.	47S_BE_4071	IOT BASED AUTOMOTIVE PERIPHERALS CONTROL AND MONITORING SYSTEM	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	prof. PRAKASH GANI	Mr. SWAROOP M. Mr. VISHAL A. SOPPANNAVAR Mr. VIJAY MAHADEV PATIL
1215.	47S_BE_4775	AR-ENHANCED LIFESTYLE: CONTROLLING HOME APPLIANCES THROUGH IOT AND AUGMENTED REALITY	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. SHEKHAPPA ANKALIKI	Mr. ABHISHEK HUBLIKAR Mr. ABHISHEK PATIL Mr. ABHISHEK RATHOD Ms. AISHWARYA KUDTARKAR
1216.	47S_BE_5148	DESIGN AND DEVELOPMENT OF AN EMBEDDED SYSTEM FOR RURAL STUDENT'S EDUCATION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. S. S. NAVALGUND Dr. JAYASHREE C. NIDAGUNDI	Mr. SHOUNAK HEREKAR Mr. VISVAJEET SINHA Mr. BAIBHAV GORAI Mr. HARSHIT BHAT
1217.	47S_BE_5019	INDIAN SIGN LANGUAGE LEXICAL INTERPRETER	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. PUSHPALATHA S. NIKKAM Prof. VARSHA S. JADHAV	Ms. SPOORTI S. ALDI Mr. OMKAR BELAMKAR Mr. SURAJ BHAJANTRI Mr. VISHAL NAGMULE
1218.	47S_BE_5117	CROPHARBOUR- AN E-COMMERCE WEB APPLICATION FOR FARMERS.	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. J. D. PUJARI	Mr. N. SAI THARUN Mr. AKASH P. Mr. OMKAR PRASHANT KAMAT Mr. SHASHANK BHOVI
1219.	47S_BE_5249	PAYMENT TRANSACTIONS USING BIOMETRIC AUTHENTICATION	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. ARATI NAYAK Prof. VARSHA S. JADHAV	Ms. GAYATRI G. SHETTI Ms. ISHA GIRISH SHET Mr. JAYGANESH NAYAK
1220.	47S_BE_4848	DESIGN AND DEVELOPMENT OF MULTI PASSENGER CARRYING E-BICYCLE	B.E.	MECHANICAL ENGINEERING	Dr. V. S. YALIWAL	Mr. MALLIKARJUN VALIKAR Mr. ADARSH BELLAD Mr. M. DHIRENRAJ Mr. YASH UPPIN
1221.	47S_BE_5377	DESIGN AND FABRICATION OF IOT BASED AUTOMATIC WEED DETECTION AND SPRAYING	B.E.	MECHANICAL ENGINEERING	Dr. SHIVANAND GALVEEN Dr. ABILASH DESAI	Mr. KHURSHIDAHMED KHAZI Mr. NIKHIL SHIVAJI MANE Mr. SHASHANK S. JAINAR Mr. SHIVANI YARAGATTI
1222.	47S_BE_5467	DESIGN AND FABRICATION OF SMART VECHICLE FOR PHYSICALLY CHALLENGED PEOPLE	B.E.	MECHANICAL ENGINEERING	Dr. ABILASH DESAI Prof. SHIVANAND GALAVEEN	Mr. SOURAV M. PATIL Mr. SHIVREDDY M. KOLIWAD Mr. CHANNABASAVA GULED Mr. CHETHAN KUMAR

150. S.D.M. INSTITUTE OF TECHNOLOGY, UJIRE

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1223.	47S_BE_0722	FAKE PRODUCT DETECTION USING BLOCKCHAIN	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. DHAWAL JAIN	Mr. SHRIKRISHNA GANAPATI HEGDE Mr. SRUJAN P. JAIN Mr. SUBHANU SHARMA Ms. VAISHNAVI VIJAYAKUMARA HEGDE
1224.	47S_BE_0723	CRIME PREDICTION USING ENSEMBLE APPROACH	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ARJUN K.	Ms. MILANA S. Ms. POOJA V. HITTALAMANI Mr. ANKIT JHA Mr. ABHIN M.

151. S.E.A. COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)

1225.	47S_MTech_0077	COMPARISON OF CLASSICAL MACHINE LEARNING AND QUANTUM MACHINE LEARNING TECHNIQUES FOR BREAST CANCER DETECTION	M.Tech	COMPUTER SCIENCE AND ENGINEERING	Mr. JAYAKUMAR B L Dr. USHA DESAI	Mr. VIKASA BHEEMASHANKARA PATEELA
1226.	47S_BE_3585	UNCOVERING THE INTERNET-BASED MERCHANDISE USING SENTIMENT EVALUATION AND MACHINE LEARNING ALGORITHMS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. NIJAGUNA G. S.	Mr. MOHAMMED AZMATHULLA Mr. SHABAZ PASHA Mr. BRIJ BHUSHAN KUMAR Mr. BASAVARAJ RAJUR
1227.	47S_MBA_0187	ROLE OF SOCIAL MEDIA ON TOURISM AND TRAVEL SERVICES WITH SPECIAL REFERENCE TO MYSORE IN KARNATAKA STATE	MBA	MBA	Dr. D. BALAJI	Mr. SUPRIT N. KRISHNA
1228.	47S_MBA_0122	INFLUENCE OF FREE TRANSPORTATION SERVICES TO THE MASS GENERAL PUBLIC: STUDY WITH SPECIAL REFERENCE TO WHITEFIELD PASSENGERS IN BANGALORE CITY	MBA	MBA	Dr. S. B. ANIL KUMAR	Mr. SUMANJANEYA REDDY N. S.

152. S.G. BALEKUNDRI INSTITUTE OF TECHNOLOGY, BELAGAAVI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1229.	47S_BE_1093	PREDICTION OF STRENGTH OF CONCRETE INCORPORATING RHA AND RAP USING ANN	B.E.	CIVIL ENGINEERING	Prof. V. S. KORISHETTI	Ms. PRIYADARSHINI Mr. BASAVARAJ NUCHHI Mr. SHIVASAGAR Mr. SACHIN H. JAGADAR
1230.	47S_BE_1151	USE OF PLASTIC BOTTLE AS GEOCELL FOR IMPROVING GROUND CHARACTERISTICS	B.E.	CIVIL ENGINEERING	Prof. SHWETA N. VANTAMURI	Ms. TANUSHRI PATIL Mr. MAHESH B. MARAD Mr. SHIVAPRASAD KAMBLE Ms. NIKITA S. PADASALGI
1231.	47S_BE_1317	A STUDY ON MACHINE LEARNING TOOL FOR THE STRENGTH PREDICTION OF ECO BRICKS	B.E.	CIVIL ENGINEERING	Prof. MANJUNATH SHARANAPPANAVAR Prof. SHWETA VANTAMURI	Ms. AKSHATA ASHOK YALAGE Ms. ROHIT KITTUR Ms. APOORVA HALLEPPAGOL Ms. SUYOG NATEKAR
1232.	47S_BE_2810	AI-DRIVEN HIGH-PRECISION MODEL FOR BLOCKAGE DETECTION IN URBAN WASTEWATER SYSTEMS	B.E.	CIVIL ENGINEERING	DR. PRASHANT BASAVARAJ BHAGAWATI Dr. B. S. HALAKARNIMATH	Dr. PREMAKUMAR TALIKOTI Mr. AADIL MIRAJAKAR Mr. ARMAN SHAIKH Mr. MD SUFIYAN SHAIKH
1233.	47S_BE_0283	SOLAR POWERED-WATER DESALINATION AND LIVESTOCK WATERING SYSTEM FOR RURAL INDIA	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SHEETAL PATIL Dr. P. B. BHAGAWATI	Mr. SHUBHAM REDDY Ms. AISHWARYA SULGEKAR Mr. SHIVARAJ SHEELVANT Ms. SYEDA ASRA ANJUM
1234.	47S_BE_0284	AI-BASED LEGAL DOCUMENT ANALYSIS FOR JUDICIARY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. SHRINIVAS MANGALWEDE	Mr. SAMARTH M. SANIKOPPA Mr. VIRAJ R. KULKARNI Ms. PRACHITA P. KHANDEKAR Mr. SAMMED V. PATIL
1235.	47S_BE_0329	SMART VOICE ASSISTANT WITH DRIVEN VOICE-BASED EMAIL SYSTEM FOR VISUALLY IMPAIRED	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. VIJAYLAXMI JAMADARKANI Dr. P. B. BHAGAVATI	Mr. DANDAVATE OMKAR HANMANT Mr. AKSHAY S. UPASHI Mr. BHARATKUMAR NAIK Ms. LAXMI B. WAKKUNDMATH
1236.	47S_BE_1692	RAILWAY EMERGENCY DETECTION AND RESPONSE SYSTEM USING IOT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. SUSHANT MANGASULI Mr. VIVEK KORESHETTY	Mr. MOHAMMAD AWAIS MULLA Mr. NADEEM JAMADAR Mr. IZHAN SOUDAGAR Mr. KARTIK MASTIHOLI
1237.	47S_BE_2068	AUTOMATED EFFLUENT TREATMENT PLANT	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. SUPANNA S. SHIRGUPPE	Mr. MUSHARRAF SHILLEDAR Mr. ADITYA KAMBLE Mr. VINOD KOTAGI
1238.	47S_BE_2955	DESIGN AND PROTOTYPE DEVELOPMENT OF SOLAR TRACKER WITH IMPROVED MPP ALGORITHM FOR LOW-COST AIR-COOLER APPLICATIONS.	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. LALITHA DARBHA	Ms. NAGAVENI NAIK Ms. AMIRUN MULLA Ms. ANJALI KUGE
1239.	47S_BE_0962	CAMPUSSYNC: IOT-POWERED COLLEGE AUTOMATION	B.E.	ELECTRONICS AND	Prof. SANMATI BEDAKIHALE Prof.	Mr. AFNAN M. JUNJWADKAR Mr. ABHISHEK R.

				COMMUNICATIO N ENGINEERING	SHARANBASAV MARIHAL	PADENNAVAR Mr. ZAYED S. NAIK Mr. YOGESH JANGAM
1240.	47S_BE_1897	IOT AND SOLAR ENERGY BASED MULTIPURPOSE AGRICULTURAL ROBOT FOR SMART FARMING	B.E.	MECHANICAL ENGINEERING	Mr. GURUDUTT GHADI	Mr. SACHIN S. BABANNAVAR Mr. RAJENDRA M. TIGADI Mr. RAGU B. GULLI Mr. SHIVANAND D. KABBUR

153. S.J.B. INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1241.	47S_BE_1476	UTILIZATION OF WASTE PLASTIC IN CONSTRUCTION OF CC PAVEMENTS	B.E.	CIVIL ENGINEERING	Ms. NISARGA P.	Ms. YASHASWINI C. Ms. TEJASWINI N. Mr. CHIRANTH H. VARDHAN
1242.	47S_BE_0625	REGENERATION, CONTROL AND OPTIMIZATION OF ENERGY IN PURE ELECTRIC VEHICLES	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mrs. PRARTHANA J. V.	Mr. RAVITHEJA B. Ms. HARSHITHA B. N. Ms. GAGANAMANI J.
1243.	47S_BE_1126	AUTOMATED DATA ACQUISITION SYSTEM FOR STUDENT PERFORMANCE ANALYSIS IN OBE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. BHASKAR B.	Mr. DEEPAK R. Ms. BHAVANI C. Mr. K. B. VARUN Mr. CHANDRA MOHAN REDDY R. M.
1244.	47S_BE_1374	CONTROLLING OF ELECTRIC VEHICLES USING BCI AND LABVIEW	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. RAVIKUMAR A. V.	Mr. HEMANTH C. Mr. SACHIN R. Ms. AISHWARYA C. R. Ms. JAHNAVI H. V.
1245.	47S_BE_1377	CONVOLUTION NEURAL NETWORK-BASED VISUAL STIMULI CLASSIFICATION USING EEG SIGNALS FOR EFFICIENT HUMAN-COMPUTER INTERACTION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. MAHANTESH K.	Ms. KEERTHANA H. Ms. GHANASHREE G. S. Ms. KAVYA K. Ms. PRERANA B. G.
1246.	47S_BE_0788	EMOCONNECT: NURTURING TRUST AND RELATIONSHIP BONDS IN ALZHEIMERS CONVERSATIONS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. YAMUNA U.	Ms. PON MUTHULAKSHIMI Mr. THARUN S. Mr. SUMANTH M. Mr. SUCHITH R.
1247.	47S_BE_0802	"MEDIACRYPT"- IMAGE AND VIDEO STEGANOGRAPHY	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. RAJESHWARI S.	Ms. APARNAA M. S. Ms. MOULYA S. P. Ms. PAYAL KUMARI
1248.	47S_MBA_0033	STRATEGIES TO TRANSFORM AGRICULTURAL PRACTICES THROUGH AI MANAGEMENT SOLUTIONS: TOWARDS SMARTER, GREENER FARMING PRACTICES	MBA	MBA	Dr. HARSHITHA S. Mrs. LAXMI M.	Ms. SHREYA G. BHAT Ms. THANUSHA K. Mr. SHASHANTH KUMAR K. K. Mr. BHARATH R.
1249.	47S_BE_3908	DESIGN, FABRICATION AND ANALYSIS OF 3 AXIS MODERN TRAILER	B.E.	MECHANICAL ENGINEERING	Mrs. CHAITHRA B. K.	Mr. MOHANKUMAR L. Mr. CHANDRASHEKHAR L. A. Mr. GURUKIRAN S. M. Mr. PRASHANTH G. C.
1250.	47S_BE_4207	DEVELOPMENT OF MULTIFUNCTIONAL AUTOMATIC WHEELCHAIR	B.E.	MECHANICAL ENGINEERING	Dr. J. SATHEESH	Mr. UDAY SAI SANAM Mr. JEEVAN P. H.

154. S.J.C. INSTITUTE OF TECHNOLOGY, CHIKKABALLAPURA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1251.	47S_BE_0243	DESIGN, CONSTRUCTION OF A SPINNING DRONE WITH REDUCED WEIGHT AND POWER CONSUMPTION	B.E.	AERONAUTICAL ENGINEERING	Dr. NAGESH D. Dr. DEEPA M. S.	Mr. ABDUL SAAD KHAN Mr. CHANDRAMOHAN V. Ms. RANJITHA V Ms. THANUSHREE A. N.
1252.	47S_BE_0326	DESIGN AND FABRICATION OF BI-COPTER DRONE FOR MEDICAL PURPOSE	B.E.	AERONAUTICAL ENGINEERING	Prof. VIDYA SHREE K. R.	Mr. MANOJ M. Mr. AKSHITH V. Ms. BHAVITHA C. Ms. RAKSHITHA H. N.
1253.	47S_BE_0500	TESTING AND DEVELOPMENT OF KENAF/PINEAPPLE/BANANA NATURAL FIBERS COMBINED COMPOSITE MATERIALS FOR AEROSPACE COMPONENTS.	B.E.	AERONAUTICAL ENGINEERING	Dr. NAGESH D.	Mr. BHARATH KUMAR S. Mr. GANESH R. Mr. GONUGUNTLA DINESH KUMAR Mr. RAMAYANAPU RAGHUNANDA
1254.	47S_BE_3189	DESIGN, DEVELOPMENT AND CHARACTERIZATION OF SELF-HEALING COMPOSITE MATERIALS FOR AEROSPACE STRUCTURAL APPLICATION	B.E.	AEROSPACE ENGINEERING	Dr. MADHUSUDHANA S. V. Dr. RAVI KUMAR	Mr. ARYA RAJ Mr. BHARATH B. Mr. BHANU PRASAD Mr. AAKASH D.
1255.	47S_BE_1684	A STUDY ON STRUCTURAL INTEGRITY, REPAIR AND RETROFITTING TECHNIQUES ON	B.E.	CIVIL ENGINEERING	Prof. ARUN KUMAR C. J.	Ms. ANUSHA M. Mr. KARTHIK A. Ms. ARCHANA SHREYI M.

		EXISTING DISTRESSED STRUCTURE				J. Mr. SHARATH C.
1256.	47S_BE_3526	DYNAMIC ANALYSIS OF ADJACENT RCC BUILDINGS FOR POUNDING EFFECT	B.E.	CIVIL ENGINEERING	Prof. CHANDRAKALA S. Dr. G. NARAYANA	Mr. GATTU UMMAR FARUQ Ms. GANAVI GOWDA S. Mr. GOVARDHAN P. N. Mr. ABHILASH S.
1257.	47S_BE_1341	FIRED:AN IMAGE-BASED FIRE DETECTOR FOR SMART HOMES USING MACHINE LEARNING ALGORITHMS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. SRINATH G. M. Dr. SHRIHARI M. R.	Ms. YASHASWINI K. M. Ms. SAHANA SHREE N. Ms. SUPRAJA B. Ms. VARSHITHA V.
1258.	47S_BE_1428	ASHWA - A SMART HYBRID WHEELCHAIR AID	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHRIHARI M. R. Ms. SRIVANI	Ms. SWATHI S. M. Ms. ROOPASHREE K. N. Ms. CHANDANA B. L. Ms. ASHA M.
1259.	47S_BE_1497	"SMARTECO" THE SMART HOME ENERGY MANAGEMENT SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SHRIHARI M. R.	Mr. GAURAV SINGH Mr. ASHWARYA Mr. JITHENDRA G. Ms. KEERTHI REDDY
1260.	47S_BE_1659	IOT ENABLED EFFICIENT DETECTION AND CLASSIFICATION OF THREATS IN PLANTS FOR AGRICULTURE APPLICATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. MAMATHA G.	Mr. DEVI PRASAD G. M. Mr. CHANDU RAJ N. Ms. VAISHNAVI N. Mr. VIJAY RAGAVAN N.
1261.	47S_MTech_0001	IOT BASED HANDHELD CAPNOGRAPHY DEVICE	M. Tech	DIGITAL COMMUNICATION AND NETWORKING	Dr. SUDHIR P.	Mr. E. GOWTHAM
1262.	47S_BE_0510	PREDICTION OF MELANOMA USING DERMOSCOPIC IMAGES USING DEEP LEARNING -BASED ARTIFICIAL INTELLIGENCE TECHNIQUE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. RAVI KIRAN R.	Ms. LAKSHMI G. N. Ms. LOKEPALLI ANVITHA Mr. KANCHUKOMMALA JAYAPRAKASH
1263.	47S_BE_1439	IOT ENABLE SURVEILLANCE AND ALERTING FOR LPG CONTAINER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. S. BHARGAVI Dr. VEENA S.	Mr. SUDARSHAN G. Mr. SHREYAS S. R. Mr. S. UPENDRA
1264.	47S_BE_1799	EARLY DETECTION OF EPILEPSY USING IOT AND IMAGE PROCESSING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. MADHUKARA S	Ms. MANYASHREE K. C. Ms. MEGHANA M. Ms. MEGHANA T.
1265.	47S_BE_1912	A GESTURE-BASED DEVICE FOR STERILE PERSUAL OF RADIOLOGY PICTURES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. MANJULA K. Prof. SRIVANI E. N.	Ms. VYSHNAVI L. Ms. THANUSHREE R. Ms. VARSHA SIRI M.
1266.	47S_BE_2135	AUTOMATION OF CATTLE LIVESTOCK	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. C. RANGASWAMY Prof. RAVI M. V.	Ms. RAKSHITHA B. A. Ms. MONISHA K. Ms. RAJINI H. S.
1267.	47S_BE_2461	AUTONOMOUS FIRE DETECTION AND EXTINGUISHING SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SUDHIR P.	Mr. RAMESH G. V. Mr. NAVEEN K. N. Mr. PAVAN KUMAR T. J.
1268.	47S_BE_0148	DATA COMPRESSION FOR BACKBONE NETWORK	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. VIJAY G. R.	Ms. GOWTHAMI K. Ms. J. M. KEERTHANA Ms. KEERTHANA S. Ms. MADHUSHREE K. V.
1269.	47S_BE_0156	CYBER SECURITY PORTAL FOR EFFECTIVE MANAGEMENT OF SERVERS AND FIREWALLS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. ARAVINDA THEJAS CHANDRA	Ms. TEJU L. Ms. SMITHA K. S. Ms. SNEHA LATHA NAIDU R. Ms. THANU SHREE M. N.
1270.	47S_BE_0157	EDUCATIONAL RESOURCE MATERIAL TRANSLATION SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. SATHEESH CHANDRA REDDY	Ms. SHIRISHA L. Ms. MEDHINI T. R. Ms. TANUSHREE P. Ms. SUPRITHA K. S.
1271.	47S_BE_0166	AIR AND WATER QUALITY INDEX AND ENVIRONMENT MONITORING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. SUSHEELAMMA K. H.	Mr. BASAVARAJ S. BIRADAR Ms. DEEKSHITHA RAM Ms. BHAVANA B.
1272.	47S_BE_0184	AUTOMATED IRRIGATION SYSTEM USING ARTIFICIAL INTELLIGENCE (AI)	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. ANAND TILAGUL	Mr. ARUNKUMAR R. Mr. DARSHAN T. P. Mr. GAJENDRA B. R. Mr. LIKITH GOWDA K. M.
1273.	47S_BE_0233	ONLINE BLOCKCHAIN BASED CERTIFICATE GENERATION AND VALIDATION SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. NAGESH R.	Mr. CHETHAN A. Mr. RAHUL S. Ms. YUKTHA REDDY P. M. Mr. PRAJWAL V. M.
1274.	47S_MBA_0019	EVALUATING THE IMPACT OF TELEMEDICINE IMPLEMENTATION ON HEALTHCARE ACCESSIBILITY IN UNDERSERVED RURAL AREAS IN CHIKKABALLAPURA DISTRICT	MBA	MBA	Prof. MANJUNATHA NAIK Dr. NANDINI L.	Ms. SWATHI L. Ms. MANJULA V. N. Mr. NIKHIL R. Mr. NAVEEN KUMAR N.

155. S.J.M. INSTITUTE OF TECHNOLOGY, CHITRADURGA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)

1275.	47S_BE_2796	EXPERIMENTAL INVESTIGATION AND PREDICTION OF MECHANICAL PROPERTIES OF ECO-FRIENDLY GEOPOLYMER CONCRETE BY EMPLOYING MACHINE LEARNING.	B.E.	CIVIL ENGINEERING	Dr. SRISHAILA J. M. Ms. PRUTHVI RANI K. M.	Mr. CHETHAN N. GUJJAR Mr. MOHAMED NOUMAN HUSSAIN Mr. MOHAMMED FAROOQ N. S. Mr. YASHAVANTH G. M.
1276.	47S_BE_2902	DETERMINATION OF WATER QUALITY INDEX OF MALLAPURA LAKE, CHITRADURGA	B.E.	CIVIL ENGINEERING	Prof. ANUSHA V.	Mr. APPU H. S. Mr. TEJAS S. A. Mr. RAVI KUMAR R. J. Mr. KIRAN T.
1277.	47S_BE_1607	ROBOTIC MODEL FOR AUTONOMOUS CAR BASED ON AI	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. KRISHNAREDDY K. R. Prof. RAMESH B. E.	Ms. BHAGYA SHREE N. Mr. ROHIT Mr. SHARATH J. Ms. USHA B.
1278.	47S_BE_1514	SMART MOTION DETECTION SURVELLIANCE ROVER WITH NIGHT PATROLLING FOR PUBLIC SAFETY AND MONITORING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. SRIDHAR S. N.	Ms. TEJASHWINI K. S. Ms. NALINA D. Ms. REKHA B. V. Ms. SYEDA NEHA

156. SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1279.	47S_BE_0675	TOYTECH GENIUS: PRECISION PLAY ROBOT DRIVEN CUBE SOLVING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. DUDDELA SAI PRASHANTH	Ms. RACHANA SHENOY M. Mr. BRANDON LEO JOHN Ms. RESHAL KIRAN LOBO Ms, SHREYA S. RAO
1280.	47S_BE_0774	PREDICTIVE MODELING FOR CATTLE SURVIVAL RATES WITH LUMPY SKIN DISEASE	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Mr. GANARAJ K.	Mr. AIMAN ABDULLAH G. Mr. ABDUR REHMAN TAQI Mr. NITESH RAMESH KAMAT Mr. PAVAN
1281.	47S_BE_0855	ELECTROOPTIX: AIOT-DRIVEN SMART HOME ENERGY MONITORING AND OPTIMIZATION	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. DUDDELA SAI PRASHANTH	Mr. KARTHIK S. K. Mr. M. SNEHITH J. RAI Mr. SAHIL KUMAR Mr. THEJAS RAO
1282.	47S_BE_0799	VIRTUAL ASSISTANT FOR MENTAL HEALTH CARE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. ALAKANANDA K.	Mr. ANIL SHETTY Mr. DARSHAN B. R. Mr. MOHAMMED ZAHIR Mr. MOHAMMAD RAHEEZ
1283.	47S_BE_0819	MULTIMODAL CYBERBULLYING DETECTION IN VIDEOS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. SUKETHA S.	Mr. HARSHA KUMAR RAI M. Mr. JAIDEEP D. NAIK Mr. PAVAN G. NAIK Mr. PRANEETH P.
1284.	47S_BE_1397	AI-ML ASSISTED JUDICIAL DECISION SUPPORT SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ADARSH RAG S.	Mr. SUGAM KEDENJI Mr. M. V. VISHAL Mr. LESTON REGO Mr. VIDHU THARUN K.
1285.	47S_BE_3468	SAAI - SMART AUTOMATED ANTI-VIOLENCE INTERVENTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. SRINIVAS P. M.	Mr. SAMARTH S. Mr. AKARSH M. RAO Mr. ANSHUMAN TIWARI Mr. IMRAN PASHA
1286.	47S_BE_0523	PAADARAKSHA - DIABETIC FOOT ULCER DETECTION AND LOCALIZATION USING DEEP LEARNING TECHNIQUES	B.E.	DATA SCIENCE	Mrs. SHWETHA S. SHETTY	Mr. VIJAY CHETHAN Ms. ASHWIJA A. RAO Mr. SRIRAM V. Mr. ANKITH K. ULLAL
1287.	47S_BE_0610	IDENTIFICATION AND CLASSIFICATION OF MEDICINAL PLANTS USING IMAGE PROCESSING AND MACHINE LEARNING ALGORITHMS	B.E.	DATA SCIENCE	Dr. NISHA	Ms. SRIVIDYA Ms. CHETHANA Ms. NEHA RAO K. Ms. PRIYA GIRIDHAR HEGDE
1288.	47S_BE_0614	MAPPING AND TRANSFORMATION CHANGE ANALYSIS OF WATER BODIES USING DEEP LEARNING TECHNIQUES FOR COASTAL REGIONS OF KARNATAKA	B.E.	DATA SCIENCE	Mrs. MADHURA HEGDE	Mr. GOWTHAM KRISHNA Mr. DARSHAN Mr. AKSHAY
1289.	47S_BE_1437	DRIVER DROWSINESS SYSTEM IN REAL-TIME USING FACIAL DETECTION LANDMARKS	B.E.	DATA SCIENCE	Dr. NISHA SHREYAN	Mr. TAMIM MUHAMMED MUSHTAK Mr. NADHEEF AHMED Mr. MOHAMMED RIFAQATH H. R. Mr. ABZAL
1290.	47S_BE_0325	EFFICIENT SPRAYING MACHINE FOR OPTIMISING ARECANUT ORCHARD MANAGEMENT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. ROOPASHREE	Ms. SOUMYA SHREEKANTH BHAT Mr. BHARATH K. Mr. HARSHITH BEKAL Mr. RAVI KIRAN V. K.
1291.	47S_BE_0328	SONIC FUSION: ADVANCED HEARING AID WITH A PIEZOELECTRIC TRANSDUCER FOR BONE CONDUCTION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. PRAVEEN KUMAR M.	Mr. DHYAN RAI M. Ms. SANJANA K. C. Mr. KEERTHAN I. NAIK

1292.	47S_BE_0353	DESIGN AND DEVELOPMENR OF FOLDABLE MULTIPURPOSE AUTONOMOUS SOLAR POWERED E-TRIKE FOR DIFFERENTLY ABLED PERSONS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. CHANDRA SINGH Mr. ASHWIN KUMAR	Ms. PRATIKSHA K. NAIK Mr. ARJUN YESHPAL SINGH Ms. AMRUTA NAYAK Ms. SNEHA DSOUZA
1293.	47S_BE_0398	DEVELOPMENT OF HYBRID DRONE INTEGRATED WITH DEEP LEARNING AND CNN FOR DISEASE IDENTIFICATION, GPS-BASED CROP LOCALIZATION AND MOBILE ALERT SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. ANUSH BEKAL	Ms. MEGHA NAIK M Mr. AHMED HASHIM Mr. SHREYAS S. BANGERA Mr. SKANDA S. ACHAR
1294.	47S_BE_0529	FLYING HIGH FOR HEALTH: DESIGN & IMPLEMENTATION OF SOLAR POWERED AUTONOMOUS VTOL TECHNOLOGY FOR MEDICINE DELIVERIES IN REMOTE AND INACCESSIBLE AREAS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. CHANDRA SINGH Mrs. SMITHA A. B.	Mr. SUJAN KUMAR S. J. Mr. CHINMAYA H Ms. CHITRA A. R. Mr. SHREYAS K.
1295.	47S_BE_0515	AI-ENABLED SMART WHEELCHAIR WITH REAL-TIME COGNITIVE ASSISTANCE AND INTELLIGENT OBSTACLE AVOIDANCE FOR THE DIFFERENTLY-ABLED	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. NAVANEETH BHASKAR	Mr. SHRINIDHI B. M. Mr. OVIN VINOL PEREIRA Mr. MISHAAL HUSSAIN Ms. SHAMYA P. SHETTY
1296.	47S_BE_0526	A SMART VISUAL ASSISTANCE SYSTEM FOR VISUALLY IMPAIRED PEOPLE IN REAL-WORLD ENVIRONMENTS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. HARINAKSHI C.	Mr. NEHAL HOSALIKAR Mr. KARTHIK Mr. KEERTHAN K. Ms. SHETTY RACHANA RAVINDRA
1297.	47S_BE_0982	MEDICINAL VALUE IDENTIFICATION IN LEAVES USING IMAGE PROCESSING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. PRATHEEK H.	Ms. A. M. DHANYA Ms. ADITI VITTAL BANAVALIKAR Ms. ATHMIKA A. R. Ms. VINUTHA G.
1298.	47S_BE_0388	DESIGN AND DEVELOPMENT OF UNMANNED UNDERWATER SEARCH, RESCUE AND ANALYSIS VEHICLE	B.E.	INTERDISPINARY (MECHANICAL ENGINEERING AND ECE)	Prof. AJITH B. S. Prof. KRIPA	Mr. VARUN RAJ Mr. AHEESH RAO Mr. DION MCNEILDSOUZA Mr. SHESHADRI SURESH SAKALATHI
1299.	47S_MBA_0005	A STUDY ON SMART FARMING USING IOT FOR REAL TIME FARM MONITORING IN DAKSHINA KANNADA DISTRICT	MBA	MBA	Mrs. AKSHATHA P.	Ms. DEEPA BALIGA Mr. K. M. MITHUN Ms. PRAJNA
1300.	47S_MBA_0009	PRODUCTION OF BIOFUEL THROUGH ORGANIC WASTE	MBA	MBA	Prof. ANIRUDH R. BHAT	Mr. PAVAN KUMAR Ms. SOWJANYA Mr. KARTHIK NAIK Ms. SHETTY SAYUKTHA RAVINDRA
1301.	47S_MBA_0014	PRODUCTION AND MARKETING OF COWDUNG AND COW URINE BASED PRODUCTS OF MALNAD GIDDA BREED OF CASTLE IN BHATKAL TALUK, UTTAR KANNADA DISTRICT, KARNATAKA	MBA	MBA	Dr. RAVINDRA R. KAIKINI	Mr. RAHUL ELSTEN HURTIS Ms. NISHMITHA Mr. PRADEEP KUMAR M. P. Ms. BHOOMIKA
1302.	47S_BE_0424	DESIGN AND FABRICATION OF MULTIPURPOSE DEHYDRATION UNIT USING WASTE BIOMASS	B.E.	MECHANICAL ENGINEERING	Dr. SHANKARA MURTHY H. M.	Mr. ADITHYA N. SHETTY Ms. AMISHA D. Ms. ANUSHRI UMESH Mr. NADMAN HUSSAIN
1303.	47S_BE_1887	DESIGN AND FABRICATION OF SEED SPRAYER FOR KHARIF CROPS	B.E.	MECHANICAL ENGINEERING	Dr. LAWRENCE JOSEPH FERNANDES	Mr. SANJAY KUMAR Mr. SACHIN Mr. J. RAJATH Mr. PRAJWAL SHETTY

157. SAI VIDYA INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1304.	47S_BE_1678	ADVANCED REAL-TIME FLOOD REGULATING DISCHARGE DRAIN	B.E.	CIVIL ENGINEERING	Prof. GOWTHAM B. Prof. ESHWARAJ	Mr. BHARATH GOWDA A. Mr. ROHITH C. Mr. PRAVEEN V. R. Mr. ARAVIND K. H.
1305.	47S_BE_1330	A PREDICTIVE MODEL FOR ROAD TRAFFIC DATA ANALYSIS AND VISUALIZATION TO DETECT ACCIDENT ZONES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. VARUN E. Dr. VINOD DESAI	Mr. AMRUTH S. Mr. ROHITH RAJU K.
1306.	47S_BE_1478	IOT ENABLED SMART STREET LIGHT MANAGEMENT SYSTEM USING DYNAMIC BRIGHTNESS CONTROL	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. AJAY V. G. Dr. TEJASHWINI N.	Mr. V. SAI LIKITH Mr. BHUVAN P. Mr. PRAJWAL SKANDA S. Mr. VAIBHAV KULKARNI

1307.	47S_BE_1612	AIDUCATE: YOUR SMART TUTOR	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. VINOD DESAI Dr. SHANTAKUMAR B. PATIL	Mr. SAGAR PATHAK Mr. RAVINDRA KUMAR YADAV Mr. ANUPAM SAHA
1308.	47S_BE_2070	NEXT-GEN ASSISTIVE TECHNOLOGY: ULTRASONIC SENSOR VIBRATOR GLOVE WITH IMAGE PROCESSING FOR THE BLIND	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. ADVAITH P. R.	Mr. MADHAN MOHAN REDDY V. J. Mr. CHETHAN R. Mr. OM PRAKASH B. M. Ms. SWETHA A.
1309.	47S_BE_2778	SOLAR FLOATING WASTE COLLECTING SYSTEM - FLOAT AND CONVEYOR	B.E.	MECHANICAL ENGINEERING	Prof. SANTOSH GAIDHANKAR	Mr. SOMESHWARAN G. G. Mr. DHANUSH M.

158. SAMBHRAM INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1310.	47S_BE_0474	DEVELOPMENT OF HYDROPONICS SYSTEM AND DATA MONITORING SYSTEM USING INTERNET OF THINGS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. DEEPA S. BHAT	Ms. HITHYASHINI V. Ms. KAVYA G. Ms. R. MUSKAN ZEHRA Ms. ANJUMA B. N.
1311.	47S_BE_1741	NANO TREE BASED CHARGING SYSTEM USING IOT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. LATHA P. H.	Ms. LIPIKA V.

159. SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1312.	47S_BE_1593	SYNTHESIS AND CHARACTERIZATION OF CELLULOSE FROM DISCARDED CIGARETTE BUTTS AND ITS IMPLEMENTATION IN PRODUCTION OF CARBOXYMETHYL CELLULOSE (CMC) AND CYRENE	B.E.	BIOTECHNOLOGY	Dr. KAVITHA V. JOSHI Dr. SOUMYA C.	Mr. TANU KUMAR C. Ms. SUSHMA S. Ms. RAKSHA K. Mr. K. NARAHARI
1313.	47S_BE_2154	DEVELOPMENT OF BIODEGRADABLE POLYMERIC MEMBRANES BY POLYSACCHARIDES WITH CROSSLINKING FOR PACKAGING APPLICATIONS	B.E.	BIOTECHNOLOGY	Dr. SEEMA SAKKARA Dr.KIRAN KUMAR	Ms. DHARANI G. Ms. DIVYA K. N. Ms. NISCHITHA K. S. Ms. SWATHI BHARADWAJ R.
1314.	47S_BE_2314	ANALYSIS OF MULTI -STOREY BUILDING SUBJECTED TO BLAST LOAD	B.E.	CIVIL ENGINEERING	Prof. PRIYANKA A.	Ms. SUMA S. Ms. YAMUNA K. R. Ms. NEHA T. M. Ms. PRATHIKSHA P. PALANKAR
1315.	47S_BE_3215	ENSEMBLE - LEARNING FRAMEWORK FOR INTRUSION DETECTION TO ENHANCE INTERNET OF THINGS' DEVICES SECURITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. CHAITRA P. Ms. ANITHA T. G.	Ms. POORNIMA T. Ms. S. MEHAK AFREEN Ms. SAHANA N. Ms. SHREYA SHETTY S.
1316.	47S_BE_1727	AUTOMATIC POWER FACTOR CORRECTION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mrs. SUPRIYA SAIJANA	Ms. RAJESHWARI C. H. Ms. YASHASWINI S. Mr. BHARATH B. S. Ms. PALLAVI N.
1317.	47S_BE_1584	ADVANCED IOT AND MACHINE LEARNING SOLUTIONS TO MONITOR UNDERPASS WATER LOGGING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. PRATHIBHA P.	Ms. AISHWARYA K. Ms. CHANDANA K. Ms. DEEKSHA V. Ms. HAFSA TABASSUM
1318.	47S_BE_4732	EFFICIENCY THROUGH INNOVATION - A GEARLESS TRANSMISSION SYSTEM WITH ELBOW MECHANISM	B.E.	MECHANICAL ENGINEERING	Dr. R. G. DESHPANDE	Mr. CHANDAN S. Mr. R. ARUN KUMAR Mr. BHARATH KUMAR G. Mr. RAVISH GOWDA R.

160. SECAB INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1319.	47S_BE_2638	IOT BASED SMART AND COST-EFFECTIVE SERICULTURE INCUBATOR	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NYAMATULLA PATEL	Ms. SHEEFA MAHEDAVI Ms. NISHA TIKOTIKAR Ms. ROOPA NAIKODI
1320.	47S_BE_3400	DNS SPOOFING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. S. A. QAUDRI	Mr. JUNAID ALI INAMDAR Mr. MOHAMMED UMAIR SOUDAGAR Mr. MOHAMMED AQUIB SURKHI Mr. ADIL HATHIWALE

1321.	47S_BE_2299	BIODIESEL FROM WASTE COOKING OIL AND ITS CHARACTERIZATION WITH NANOMATERIALS: ECO-FRIENDLY SYNTHESIS AND EXPERIMENTAL INVESTIGATION FOR PERFORMANCE AND EXHAUST EMISSIONS	B.E.	MECHANICAL ENGINEERING	Dr. SYED ABBAS ALI Mr. ALTAF HUSSAIN BAGAWAN	Mr. ABDUL KAREEM Mr. IRSHAD AHMAD Mr. KHAN ANAS JAVED

161. SHARNBASVA UNIVERSITY, KALABURAGI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1322.	47S_BE_4319	IOT WOMBCARE: SHISHU SWASTHYA GAMANA	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. AMRUTA PRABHUGOUDA	Ms. SAADIA ATHIQ Ms. SOUMYASHREE Ms. ZOHAA TAMKEEN SIDDIQUA Ms. SHIFA MAHVEEN QUADRI
1323.	47S_BE_4373	SOLDIER HEALTH AND POSITION TRACKING SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VIJAYALAXMI	Ms. DESAI KUSUM RAVI Ms. SWATI S. K. Ms. VAISHNAVI S. PATIL Ms. SYEDA AYESHA
1324.	47S_BE_4491	SOLAR SCARECROW WITH SOUND SENSING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NANDINI S. PATIL	Ms. SHIVANI B. MITAGAR Ms. NAILA NISHAT Ms. ROOPA DIGGI Ms. SHRAVANI
1325.	47S_MTech_0118	DRY HAND WASHING MACHINE USING FOG DISINFECTION	M.Tech	DIGITAL COMMUNICATION AND NETWORKING	Prof. VANITA KABA Prof. LAXMI PATIL	Ms. PRATIKSHA MANE
1326.	47S_BE_4153	SMART DUST CONTROL AND MONITORING SYSTEM FOR CONSTRUCTION SITES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SHARANGOUDA N. Dr. SHASHIDHAR SONNAD	Ms. SHASHIREKHA PATIL Ms. SHRADDHA PADASHETTY Ms. SOUMYA KORISHETTY
1327.	47S_BE_4704	EXPRESSION BASED EMOTION DETECTION IN SPEECH USING PYTHON	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. LAXMI PATIL Prof. SHOBHANA	Ms. RENUKA Ms. BHAGYASHREE Ms. MAHESHWARI
1328.	47S_BE_5137	OTP BASED BANK LOCKER SYSTEM USING ARDUINO WITH BIOMETRIC ALERT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. BASAVESHWARI Mrs. NEELAMBIKA	Ms. RAHAT SHAIK Ms. SARIKA Ms. POOJA Ms. SHIVANI
1329.	47S_BE_3754	POWER THEFT AND FAULT DETECTION USING IOT TECHNOLOGY	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. SRIDEVI M. HOSMANI	Ms. SUSHMA Ms. SHANTAMMA Ms. BHAGYASHREE
1330.	47S_MSC_0014	EVALUATION OF REPRODUCTIVE TOXICITY ASSOCIATED WITH FIPRONIL EXPOSED FEMALE WISTER RATS	M.Sc	ZOOLOGY	Mr. VISHWAJIT BASAVARAJ DAREKAR Dr. BASAWARAJESHWRI INDUR	Ms. SADIKA SUMERA Mr. NAVEENKUMAR MALLAPPA SINDAGI Mr. SAMEER PANAPAROSH Ms. TANUJA HIROLE

162. SHETTY INSTITUTE OF TECHNOLOGY, KALABURAGI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1331.	47S_BE_2829	CHRONIC OBSTRUCTIVE PULMANERY DISEASE PREDICTION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. PRATIBHA K.	Ms. BINDU Ms. SWATI ROOGI Mr. NASIR KHAN Mr. NITESH

163. SHREE DEVI INSTITUTE OF TECHNOLOGY, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1332.	47S_BE_4737	DESIGN AND DEVELOPEMENT OF WIRELESS CHARGING ORNITHOPTER	B.E.	AERONAUTICAL ENGINEERING	Mr. LEVI REUBEN V. R. Mr. AUGUSTINE DSOUZA	Mr. ABHISHEK T. S. Ms. NISHMITHA B. S. Mr. SHASHANK G.

164. SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, UDUPI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1333.	47S_BE_0984	SMART APP ASSISTED COLORIMETRIC DETERMINATION OF IRON GROUND WATER: A CASE STUDY IN UDUPI TALUK	B.E.	CIVIL ENGINEERING	Dr. DEEPIKA B. V.	Mr. TANMAY V. SHETTY Mr. SHRAVAN V. POOJARY Ms. SOUJANAYA GANAPATI PAI
1334.	47S_BE_3405	ENHANCING VIDEO QUALITY THROUGH AI-POWERED NOISE REMOVAL TECHNIQUES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. SAHANA	Mr. KRISHNAMOORTHY KARANTHA K. Ms. ARATHI KINI

						Ms. K. PRATHVI RAO Mr. NANDEESH U.
1335.	47S_BE_0099	PRECISE TEMPERATURE CONTROLLED PORTABLE STORAGE MODULE FOR PHARMACEUTICAL FLUIDS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. CHETAN R. Ms. YOGESHWARY B. H.	Mr. JEEVAN KUMAR Ms. MANASA ACHARYA Mr. MANISH JOGI Ms. K. PREETHIKA KAMATH
1336.	47S_BE_0807	WALL PAINTING ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. SOWMYA BHAT Mr. LAWRENCE D'ALMEIDA	Mr. ADITHYA PRAKASH Ms. ASHWINI Ms. ATHMIKA SHETTY Mr. LLOYD WINSTON PINTO

165. SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1337.	47S_BE_5138	PRECISION FARMS: ACCELERATED AGRICULTURE ANALYTICS WITH EDGE COMPUTING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. PRAMOD T. C.	Mr. MARUTHI R. Mr. ABHISHEK S. Mr. AKSHATH G. Mr. CHETAN MANAGAVI
1338.	47S_BE_5447	DEEP CULINARY CREATOR: A VOICE-ASSISTED RECIPE GENERATOR FOR THE VISUALLY IMPAIRED	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. SHOBHA K.	Ms. POOJA PALANAKAR Mr. GAURI HARSH RAGHUVANSHI Mr. PIYUSH KUMAR Ms. RINKAL RANJAN
1339.	47S_BE_5406	GREEN SYNTHESIS OF NANOSTRUCTURED MnMoO4 FOR ELECTROCHEMICAL HEAVY METAL DETECTION AND CATALYST FOR ORGANIC CONVERSION REACTION AND PHOTOCATALYTIC REACTION	B.E.	CHEMICAL ENGINEERING	Dr. SUMA G. R. Dr. NAGARAJU G.	Mr. NAVEETH GANESH PALAN Mr. KIRAN R. Ms. APOORVA T. Mr. SWATHI G.
1340.	47S_BE_5352	ENHANCING DAM SAFETY: SECURE VIGILANCE THROUGH SENSOR SYSTEM MONITORING	B.E.	CIVIL ENGINEERING	Dr. SREEDHARA B. M.	Mr. THARUN RAMESH Ms. DHANYASHREE P. Ms. BHUMIKA U.
1341.	47S_BE_5378	RESTORATION OF EARTHEN BUND IN KAMBADHALLY, KORATAGERE - A CASE STUDY	B.E.	CIVIL ENGINEERING	Dr. MUTTANNA S. BALREDDY	Mr. DHANUSH T. M. Ms. NITHYA SHREE D. Mr. DARSHAN S. N. Mr. SHREYAS J. M.
1342.	47S_BE_5462	EMPOWERING INDEPENDENCE: A SOLUTION FOR THE VISUALLY IMPAIRED	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. Shobha K.	Ms. KUSHI K. M. Mr. L. MARUTHI KIRAN Ms. LEKHANA R. Mr. RAGHAVENDRA URS H. R.
1343.	47S_BE_4905	AUTOMATED SILKWORK EGG COUNTING AND IDENTIFYING DISEASED EGGS USING IMAGE PROCESSING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. P. S. SHILPASHREE	Ms. SAKSHI Ms. SAMEEKSHA DEV T. M. Ms. VARSHA T. N. Mr. SANDEEP R.
1344.	47S_BE_4728	AUTOMATIC SUGARCANE BUD CUTTING USING IMAGE PROCESSING	B.E.	ELECTRONICS AND INSTRUMENTATION ENGINEERING	Dr. LATHA H. K. E.	Mr. PRAJWAL K. S. Ms. H. S. YASHASWINI Mr. MUNESH K. N. Mr. PUNITH V.
1345.	47S_BE_3249	SMOKE DETECTION FROM IP CAMERA FOOTAGE USING DEEP LEARNING AND NEURAL NETWORKS	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. SOWMYA R. B.	Ms. MAHIKA K. S. Ms. KOUSHIKA M. Ms. KUNSHI N. S. Ms. SNEHA T.
1346.	47S_MBA_0166	DESIGN AND DEVELOPMENT OF SUSTAINABLE BIO DIESEL FEEDSTOCK SUPPLY CHAIN IN TUMAKURU	MBA	MBA	Dr. C. SOMASHEKHAR	Mr. KEERTHIRAJ S. Mr. LOHITHWODEYAR S. Ms. NAGASHREE H. N. Ms. NISCHITHA V.
1347.	47S_BE_4387	FABRICATION AND EXPERIMENTAL EVALUATION OF MICRO FLAPPING MECHANISM IN ORNITHOPTER THROUGH DLP COMPOSITES	B.E.	MECHANICAL ENGINEERING	Dr. C. T. MANJUNATH	Mr. AJAY BASETTY B. N. Mr. AKSHAY S. Mr. ANJAN KUMAR T. H. Mr. CHETHAN T. L.

166. SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1348.	47S_BE_1988	AN IN-VITRO STUDY TO UNDERSTAND THE IMPACT OF CARDIOVASCULAR, DIABETIC AND NSAID DRUGS ON THE REGION-SPECIFIC HUMAN GUT MICROBIOTA MODEL	B.E.	BIOTECHNOLOGY	Dr. PRIYA NARAYAN Dr. JAGADEESH KUMAR D.	Ms. SAMHITA B. S. Ms. AMRITA DE Ms. AHALYA P. N.

1349.	47S_BE_3792	EXTRACTION AND PURIFICATION OF PLASTIC DEGRADING ENZYMES FROM DOMESTIC WASTE WATER AND CREATING A BIOFILM FROM RETRIEVED MICROORGANISMS	B.E.	BIOTECHNOLOGY	Dr. ISHWAR CHANDRA	MS. KANGAN M Mr. ROHIT JOHN CHERIAN
1350.	47S_BE_1574	BEHAVIOUR OF OPTIMUM TERRA ZYME STABILATION POLYPROPYLENE FIBER REINFORCED LITHOMERGIC CLAY (SHADY SOIL)	B.E.	CIVIL ENGINEERING	Mrs. SUBHADRA G. D. Mrs. RAMYA N.	Mr. PRAJWAL M. C. Mr. ABDUL KALAM S. Mr. MANOHAR M. Mr. PAVAN S. S.
1351.	47S_BE_2274	EVALUATION OF GROUND WATER QUALITY AND ITS MANAGEMENT IN DEVANAHALLI TALUK USING REMOTE SENSING AND GIS	B.E.	CIVIL ENGINEERING	Dr. SHIVANNA S. Mrs. VYSHNAVI D R.	Ms. CHAITHRA V. N. Ms. NANDITHA N. Ms. PAVITRA
1352.	47S_BE_0880	REAL-TIME SMART GRID IDENTIFICATION: AI-ENABLED ELECTRICITY THEFT DETECTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. ELAIYARAJA P.	Mr. NUMAIR SHAIKH Mr. ANANYA RICHU Mr. SRIPAVAN B. Ms. SPANDAN M. N.
1353.	47S_BE_1711	AI BASED SMART VOTING SYSTEM USING FACE RECOGNITION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. ANITHA T. N.	Mr. SAI KIRAN T. N. Mr. B. P. SATWICK Mr. SHRAVAN M. Mr. AMEETREDDY
1354.	47S_BE_0620	MULTIFUNCTION AGRO MACHINE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. MAHESH K. Dr. H. L. SURESH	Ms. INDUMATHI K. HIREMATH Mr. PRATEEK D. Ms. SARASWATI S. SHIRUR Mr. SUHAS R. KARNAM
1355.	47S_MBA_0103	PM SVANIDHI AND ITS ROLE IN REVINING THE STREET VENDOR'S ENTREPRENEURIAL ACTIVITIES - AN EMPIRICAL STUDY WITH SPECIAL REFERENCE TO BANGALORE	MBA	MBA	Dr. PRIYANKA SHARMA Ms. DEEPTHI J. R.	Ms. MANASI R. KOWSHIK Mr. NAVEEN N. Ms. MANISHA KUMARI N. Mr. RANJITH R.
1356.	47S_BE_3913	DETECTION AND IDENTIFICATION OF TOMATO LEAF DISEASE	B.E.	MECHANICAL ENGINEERING	Mrs. ASHA RANI A.	Mr. AJAYKANTH G. V. Mr. HANISH N. Mr. HAREESHA V. A. Mr. HEMANTH S.

167. SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMAKURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1357.	47S_BE_2969	IMAGE PROCESSING APPROACH FOR GRADING IVF BLASTOCYST USING MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHANMUKASWAMY C. V. Dr. GIRISH L.	Ms. HARSHITHA T. A. Ms. VARSHITHA T. N. Ms. TEJASHWINI R. Ms. ANUSHA R.
1358.	47S_BE_1744	AUTOMATED SERVING ROBOTS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. ROOPA T. C.	Mr. MANOJ M. R. Ms. BHUMIKA S. Ms. HARSHITHA S. Ms. GAGANASHREE
1359.	47S_BE_3048	ANDROID BASED MULTIMODAL STUDENT ATTENDANCE SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. REKHA H.	Mr. HEMANTH SANGAM M. Ms. KEERTHANA N. Mr. SUDEEP R. V. S.
1360.	47S_MBA_0193	STUDY ON RENEWABLE ENERGY & NON-RENEWABLE ENERGY SOURCES	MBA	MBA	Dr. PRATHAP B. N. Mr. PRAVEEN KUMAR T. M.	Mr. MARUTHI H. Mr. CHANDANA KUMAR K. H. Mr. CHANDRAIH R.
1361.	47S_BE_1570	FABRICATION OF IOT BASED AUTOMATED HYDROPONICS SYSTEM WITH SOLAR TRACKING DEVICE	B.E.	MECHANICAL ENGINEERING	Mr. AJAY HIREMATH	Mr. PAVAN C. Mr. RAKESH R. Mr. SHARATH KUMAR R.

168. SMT. KAMALA AND SRI VENKAPPA M. AGADI COLLEGE OF ENGINEERING AND TECHNOLOGY, GADAG

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1362.	47S_BE_2081	TREATMENT OF DAIRY WASTEWATER BY UP-FLOW ANAEROBIC SLUDGE BLANKET	B.E.	CIVIL ENGINEERING	Mr. ARUN TANDI	Ms. ANUSHA SHETTAPPANAVAR Mr. GIREESH KARADAGI Mr. HUTTANAGOUDA V. HOSAMANI
1363.	47S_BE_5418	CULTIVATING SUSTAINABILITY THROUGH VERMICOMPOSTING	B.E.	CIVIL ENGINEERING	Dr. SHIVARAJKUMAR GOUDAR	Mr. GOUTAM R. SINGRI Mr. ABHISHEK M. BADAGI Mr. SIDDAROODHA K. AGASIMANI

						Mr. SUHAS S. HIRAGANNAVAR
1364.	47S_BE_1819	FORGERY IMAGE DETECTION USING CNN AND DEEP LEARNING ALGORITHM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PARASHURAM BARAKI	Mr. ABDUL MUTALIB MULLA Mr. ANAND GANIGER Ms. CHANDANA SHIVAPPA SURPUR Ms. DEEKSHA TIRAKANAGOUDAR
1365.	47S_BE_2524	ECO-FRIENDLY POWER GENERATION USING WASTE	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. IRANNA M.	Mr. PRAMOD V. HIREMATH Mr. PRADEEP RAYARADDI Mr. PRAVEEN R. MATHAD Mr. SIDDALINGASWAMI P. MARIDEVARMATH
1366.	47S_BE_1707	IOT BASED SMART GARBAGE MONITORING SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. AMARAPPA PAGI	Mr. PRASHANT SATANNAVAR Mr. SHIVAYOGI KOLIWAD Mr. BASAVARAJ ARAMANI Mr. HANUMANTHAPPA K.
1367.	47S_BE_1891	DriveEase	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. AMARAPPA PAGI	Mr. PRATEEK SHAPUR Mr. GIRISH SHALI Mr. KIRANDEV HUGAR Mr. SHIVAYOGI HANCHINAL
1368.	47S_BE_2898	PREDICTION OF SOLAR POWER GENERATION USING NWP AND MACHINE LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. PRATHIMA M. Dr. RAJSHEKAR K.	Ms. LAXMI PATIL Ms. AISHWARYA NERTI Ms. CHAITRA MADNUR Ms. VARSHA AILI
1369.	47S_BE_2251	POWER GENERATION BY UTILIZING WASTE WATER USING A PORTABLE TURBINE	B.E.	MECHANICAL ENGINEERING	Dr. DEVENDRA K.	Mr. SACHIN S. Mr. ADITYA AGADI Mr. RAHUL RAMESH VERNEKAR Mr. MAHESH K.

169. SRI KRISHNA INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1370.	47S_BE_5178	PREDICTION OF AUTISM SPECTRUM DISORDER USING MACHINE LEARNING	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. JAYASUDHA K.	Mr. ANKITH P. Ms. FIZA TASKEEN Ms. KRUPA M. Mr. TEJUS G.
1371.	47S_BE_4773	POWER MONITORING AND BILLING SYSTEM USING IOT FOR BESCOM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. ARUNA R.	Mr. ARYAN RAJENDRA MAHALE Mr. BHARAT SIMHA REDDY Mr. DHANUSH K. Mr. GONUGUNTLA ANAND

170. SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1372.	47S_BE_5220	SMART TOURISM USING AI-VR	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. B. SHADAKSHARAPPA Prof. K. KARTHIKA	Ms. KAVYA M. N. Mr. BANU PRASAD L. Mr. A. J. DAYA SAGAR Ms. KEERTHANA M.
1373.	47S_BE_4010	MICRO WINDMILL FOR ELECTRICITY GENERATION FOR LOW WIND SPEED SURROUNDING BENGALURU	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. DHAMARAI SELVI K. V. Dr. S. SUJATHA	Mr. CHANDAN H. C. Mr. HANAMANT KOLAR Ms. PALLAVI S. Mr. SESHADRI R.
1374.	47S_BE_3897	HYBRID VEHICLE THERMAL MONITORING SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. ANITHA V. Dr. T. RAJESH	Ms. PREETHI VENKAT K. H. Ms. ASMITHA V. Mr. SHAMEEM AKTHER S. Ms. VISHNU PRIYA M.
1375.	47S_BE_4008	HELMET MOUNTED ADAS FOR ENCHANCED SAFETY AND AWARENESS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. RAJA G. V.	Mr. THARUN K. Mr. SAKTHIVEL G. Mr. PRADHEEP M. Mr. MERBIN JOSHUA D.
1376.	47S_BE_3851	DESIGN AND FABRICATION OF WATER EXTRACTION DEVICE FROM ATMOSPHERE THROUGH PELTIER MODULE	B.E.	MECHANICAL ENGINEERING	Dr. MADHU B. Prof. BALAJI V.	Mr. GUNASHEKAR A. Mr. RAHUL YADAV S. Mr. NAGESH P. Mr. SACHITH A.

171. SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1377.	47S_BE_2255	ASSESSMENT OF WATER QUALITY IN BORE WELLS OF VILLAGES IN NIDAGAL HOBLI, PAVAGADA TALUK	B.E.	CIVIL ENGINEERING	Mrs. SAHANA T. S. Mr. RAKESH M.	Ms. RAKSHITHA S. R. Ms. GAGANA P. Ms. SAHANA R. Ms. NISARGA S.
1378.	47S_BE_2476	A COMPREHENSIVE STUDY ON ELEMENTAL ANALYSIS AND SUSTAINABLE INTEGRATION OF CETP SLUDGE AS A FINE AGGREGATE REPLACEMENT IN CONCRETE	B.E.	CIVIL ENGINEERING	Mrs. USHA S.	Mr. ROHITH GOWDA Mr. CHETHANA G. R. Mr. HANUMANTHAIAH D. P. Mr. SHASHANKA P.
1379.	47S_MTech_0041	AN EXPERIMENTAL AND FINITE ELEMENT STUDY ON REINFORCED CONCRETE BEAMS UTILIZING ALUMINIUM WASTE IN IMPROVING SHEAR PERFORMANCE	M.Tech	COMPUTER AIDED DESIGN OF STRUCTURES	Mrs. SOWJANYA G. V. Mrs. SAHANA T. S.	Mr. SIDDESH K. N.
1380.	47S_BE_5272	SMART TRAFFIC SIGNAL FOR EMERGENCY VEHICLE USING GPS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. MADHUMALA G.	Mr. JEEVAN KUMAR K. Ms. MRUDULA P Mr. NANDISH MALLAPPA GALI Ms. HARSHITHA A.
1381.	47S_BE_3667	ENHANCING ROAD SAFETY IN SMART CITIES USING ROBOTIC APPROACH WITH BLACK BOX INTEGRATION	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. PRAVEEN KUMAR C.	Ms. BHOOMIKA R. Ms. DISHA B. S. Mr. SRI RAM S. Mr. YESHWANTH J. N.
1382.	47S_BE_1859	IOT BASED MINING WORKER SAFETY HELMET	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SUNIL T. D.	Mr. DHANUSH K. M. Mr. SUJITH T. M. Mr. UJWAL H. R. Mr. YASHAS B.
1383.	47S_BE_1936	AUTOMATIC CONTROL HOTEL WAITER ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. M. C. BASAVARAJA	Mr. UJWAL UMESH ANUVA Ms. TANUSHRI M. Ms. JASHWANTH REDDY Mr. YOGESH B.
1384.	47S_BE_2568	VOICE CONTROLLED HOME AUTOMATION FOR DISABLED PERSON	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SURESH M.	Mr. ABHISHEK G. Mr. BOJEGOWDA G. H. Ms. CHAITHANYA K. J. Ms. CHITHRASHREE L. K.
1385.	47S_BE_3130	IDENTIFICATION OF POTHOLE AND REPAIR COST ESTIMATION USING SEMI AUTOMATED ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. REVANNA B. R.	Mr. HARSHA K. T. Ms. CHETHANA K. S. Ms. HARSHITHA D. Mr. NAGARAJ H. M.
1386.	47S_BE_4111	NEXT GENERATION SCHOOL BUS MONITORING AND SECURITY SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. GHOUSE AHAMAD Z.	Mr. KIRAN G. E. Ms. HEMASHREE M. Ms. NAYANA B. S. Ms. SHREYAS N.
1387.	47S_BE_1851	EMOTION BASED MUSIC RECOMMENDATION SYSTEM	B.E.	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	Dr. SAVITA D. TORVI Prof. JEEVITH S. H.	Mr. SANJAY K. Mr. DARSHAN KUMAR G. R. SANJAY K
1388.	47S_BE_1813	AUTONOMOUS VEHICLE COLLISION AVOIDANCE	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. CHAMPAKAMALA S.	Ms. MONIKA G. S. Ms. MANUSHREE T. L. Ms. MONISHA A. Ms. NEKKANTI RAMYA
1389.	47S_BE_3436	DEVELOPMENT OF DRAW BRIDGE IN TRAIN FOR PHYSICALLY DISABLED PEOPLE	B.E.	MECHANICAL ENGINEERING	Dr. ANNAPOORNA T. L. Dr. BATLURI TILAK CHANDRA	Ms. CHITHRA Y. Mr. GANESHACHARI B. Mr. MANOJ U. Mr. MANOJKUMAR H. M.
1390.	47S_BE_4900	DEVELOPMENT OF PORTABLE SLEEP APNEA MONITORING SYSTEM	B.E.	MEDICAL ELECTRONICS	Dr. GURUPRASAD S, Prof. RAGAVENDRA D.	Ms. PUSHPA B. PUJAR Ms. DEEPTHI M. R. Ms. NISARGA N. M.

172. SRI TARALABALU JAGADGURU INSTITUTE OF TECHNOLOGY, HAVERI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1391.	47S_BE_5078	SOLAR POWER SEED SOWING MACHINE AND SPRAY PUMP	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Dr. SANTHOSH RAIKAR	Mr. RAHUL P. MEHARWADE Mr. RENUKARAJ P. V. Ms. SANJANA U. K. Ms. PALLAVI J. R.

1392.	47S_BE_4016	POLICE SURVEILLANCE ROBOT USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. CHADRASHEKHAR B. G.	Mr. RAGHAVENDRA R. SHEREGAR Ms. CHAITRA R. BADIGERA Ms. PARIMALA S. KANNAPPANAVAR Ms. ANU K. N.

173. SRI VENKATESHWARA COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1393.	47S_BE_3527	FAIRNESS ANALYSIS OF STUDENT ADMISSION RECOMMENDATION SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. JIJESH J. J. Dr. VINEETH KUMAR P. K.	Mr. SUHAS S. Mr. AMANDEEP Mr. DARSHAN P.
1394.	47S_BE_5407	ANALYSING THE GLOBAL WARMING POTENTIAL IN SHARED AUTONOMOUS VEHICLES TO REDUCE HARMFUL EMISSIONS AND POLLUTANTS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mr. DIVAKARA M. Mrs. MEGHAVARSHINI S. K.	Mr. CHANDU J. Mr. ANKIT TIWARI Mr. VIKAS M.
1395.	47S_BE_2218	REAL-TIME CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SATHISH B. S.	Ms. V. S. SARANYA Ms. NAYANA K. S. Mr. GOWRA SAI SANTHOSH Ms. TEJASWI BODDU
1396.	47S_BE_3348	VEHICLE-TO-VEHICLE COMMUNICATION USING WIRELESS NETWORKING	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. RAMYA P.	Ms. ARPITHA B. M. Ms. GEETHA S. V. Ms. BHAGYALAXMI SHEELVANT Mr. SANJAY M.
1397.	47S_BE_4006	DESIGNING A THERMOELECTRIC GENERATOR FOR MILITARY APPLICATIONS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SHALINI V. Mr. NITHISH D.	Ms. DEEPTHI REDDY G. V. Mr. MANDLE SANDEEP YADAV Mr. KUMAR K. S. Mr. SACHIN S.
1398.	47S_BE_4196	DESIGN AND IMPLEMENTATION OF AN AUTOMATIC WASTE SEGREGATION SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. VINEETH KUMAR P. K. Dr. JIJESH J. J.	Ms. ARCHANA M. Mr. APPU ANNAVEERAPPA Mr. ADARSH M. Mr. LIKITH S.
1399.	47S_BE_1821	RETINOPATHY DIABETIC PREDICTION USING MACHINE LEARNING	B.E.	INTERDISPINARY (ECE AND CSE)	Prof. MANJU D. Dr. JIJJESH J. J.	Ms. AISHWARYA A. Ms. ANJALI K. Ms. POOJA V.
1400.	47S_BE_2478	KIDNEY DISEASE DETECTION AND PREDICTION USING MACHINE LEARNING	B.E.	INTERDISPINARY (IS, CV AND CSE)	Prof. MANJU D. Prof. SURESH P.	Mr. KISHAN SHINDE Mr. NAGARAJA Mr. MANU G. Mr. MANIKANATA S.

174. SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1401.	47S_BE_0161	ACOUSTIC STUDY OF MECHANICALLY CHARACTERIZED RATTAN/GLASS FIBRE HYBRID COMPOSITE FOR STRUCTURAL APPLICATION	B.E.	AERONAUTICAL ENGINEERING	Dr. GANGADHARA RAO	Ms. SHARANYA I. S. Mr. YASHWANTH H. L. Ms. HRITHIKA NIKAM Mr. CHANNA KESHAVA REDDY K. L.
1402.	47S_BE_0485	DEVELOPMENT OF A HYBRID GREEN PROPELLANT ROCKET ENGINE	B.E.	AERONAUTICAL ENGINEERING	Dr. RAJESH	Mr. HARISH V. Ms. MEGHANA ASHOK GUNDI Mr. S. KEERTHAN Ms. SHAIK ZUHI RAFHATH
1403.	47S_BE_2060	FABRICATION AND DEVELOPMENT OF LITHIUM SILICON BATTERY FOR HIGH PAYLOAD UAV	B.E.	AERONAUTICAL ENGINEERING	Dr. RAJESH	Mr. DANNY DAMIAIO MANTERO Mr. AKHILESH Mr. HEMANTH S. Ms. SHWETHA K. P.
1404.	47S_BE_2908	DESIGN AND IMPLEMENTATION OF AN HEAT SINK FOR AN ELECTRIC VEHICLE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SOORYA KRISHNA K.	Ms. AISHWARYA K. K. MS. NIVEDITHA P. P. Ms. SUCHITHRA
1405.	47S_BE_0477	TRACK VISION - REAL TIME OBSTRUCTION TRACKING AND PEDESTRIAN ALERT FOR INDIAN RAILWAY'S SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mrs. SHREEKSHITHA	Mr. YAJNESH J. KULAL Mr. T. VAISHNAV Mr. DEEPAK KUMAR A. Mr. DHANUSH
1406.	47S_BE_0419	APPLICATION OF CONVOLUTIONAL NEURAL NETWORKS FOR IMAGE-	B.E.	MARINE ENGINEERING	Prof. VIVEK VIJAY KUMAR	Mr. KARTHIK H. K. Mr. AVIN V. K.

		BASED DETECTION, INSPECTION, AND ANALYSIS OF HULL CORROSION				Mr. CHETHAN H. K. Mr. PRASHANTHA G. M.
1407.	47S_BE_0358	DESIGN AND FABRICATION OF SMALL-SCALE VERTICAL AXIS WIND ENERGY DEVICE	B.E.	MECHANICAL ENGINEERING	Prof. JAYARAM THUMBE	Mr. DEEKSHITH S. Mr. ABIN SHAJI Mr. ASWINKRISHNA K. Mr. S. KARTHIK SHETTY

175. SRINIVAS UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY, MUKKA, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1408.	47S_BE_5455	ENHANCING MATERNAL WELLNESS THROUGH IOT - POWERED COMPREHENSIVE HEALTH MONITORING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. THANMAYEE	Ms. NIKITHA S. Ms. NAYANA Ms. ALISHA JEVITA DSOUZA Ms. ANVITHA

176. ST. ALOYSIUS (DEEMED TO BE UNIVERSITY), MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1409.	47S_MSC_0258	EXPLORING THE BIOINOCULANT POTENTIAL OF ENTEROBACTER CLOACEA (ACC NO. OR098534) FOR SOIL REMEDIATION AND SUSTAINABLE GREEN AGRICULTURE IN DETERGENT CONTAMINATED ECOSYSTEM	M.Sc	BIOTECHNOLOGY	Dr. JIJI GEORGE	Mr. ALYA NAZAR Mr. DIVNA NGANGOM Mr. NAVYA NAMBIAR
1410.	47S_MSC_0274	INNOVATIVE FERMENTATION SYSTEM DESIGN AND PROTOTYPING FOR RAPID BIOAUGMENTATION OF LAUNDRY EFFLUENT WITH ENTEROBACTER CLOACAE (ACC. NO: OR098534).	M.Sc	ENVIRONMENTAL BIOTECHNOLOGY	Dr. JIJI GEORGE	Ms. SUDHESHNA L. K. Ms. ARYA SREEJAYA J. J. Ms. VICTORIA JENNIFER CRASTA
1411.	47S_MSC_0256	AI DRIVEN APPROACH FOR BRONCHOPNEUMONIA DETECTION IN CHILDREN	M.Sc	SOFTWARE TECHNOLOGY	Dr. RUBAN S. Mrs. SUCHETHA VIJAYAKUMAR	Ms. SHRADDHA H. SHETTY Ms. YASHASWI K.
1412.	47S_MSC_0273	DEVELOPMENT OF CHAT BOT FOR VACCINATION USING ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	M.Sc	SOFTWARE TECHNOLOGY	Dr. RUBAN S. Ms. SUCHETHA VIJAYAKUMAR	Mr. RESHAB A. SHETTY Mr. ADARSH M. K. Mr. VINAYAKA D. Ms. SOUJANYA

177. ST. JOSEPH ENGINEERING COLLEGE, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1413.	47S_BE_0842	NURTURHUB: A SMART MATERNITY/PREGNANCY HEALTH MONITORING DEVICE	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. SHREENATH ACHARYA	Mr. RIHAN D. S. A. Ms. KATE ANGELA JEANNE PEREIRA Mr. PRAJWAL BANGERA Mr. PRATHAM KUMAR RAO
1414.	47S_BE_5151	SYNTHESIS OF THE IRON NANOPARTICLES BY USING LEAVES FOR TREATMENT OF WASTE WATER	B.E.	CIVIL ENGINEERING	Mr. AJEETH B.	Mr. YASHAVANTHA K. Mr. PRASTHUTH U. KOTTARY Mr. RATHAN KUMAR Mr. PRAJWAL GAMBHIRA
1415.	47S_BE_5312	UNLOCKING THE POTENTIAL OF BIOCHAR AS A SUSTAINABLE CARBON SEQUENSTRATION MATERIAL IN CEMENTITIOUS COMPOSITES	B.E.	CIVIL ENGINEERING	Mr. MANJUNATH B.	Ms. POOJA S. Ms. ANSIFA BANU O. M. Mr. SAMUEL SEQUEIRA Ms. SHREYA SANTHOSH
1416.	47S_BE_5427	A STRATEGIC EXPLORATION OF VULNERABLE FACTORS AND PROPOSING PROTECTIVE MEASURES FOR THREE LAND SLIDES IN BELTHANGADY	B.E.	CIVIL ENGINEERING	Mr. ROHITH PRAKASH VEIGAS	Mr. HASAN ASHAD Mr. ABDUL AASHIQ Mr. MOHAMMED THWAHA Mr. MOHAMMED SAWAD
1417.	47S_BE_0514	PROMOTIONAL EMAIL UNSUBSCRIPTION USING WEB EXTENSION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Ms. PRAJNA M. Dr. HARIVINOD N.	Mr. RAMGOPAL P. Ms. PRERANA C BANGERA Mr. R. VINAY Ms. RASHMITHA R.
1418.	47S_BE_0782	BIDIRECTIONAL COMMUNICATION SYSTEM FOR DEAF-BLIND INDIVIDIUALS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. SRIDEVI SARALAYA	Ms. LAVISHA ANDRI SERRAO Ms. JANE OVEITA VAZ Mr. FLAIVIN DSOUZA Mr. JEEVAN V JIJO

1419.	47S_BE_2200	DEVELOPMENT OF AN ENVIRONMENTALLY FRIENDLY, COST EFFECTIVE AND COMPACT ELECTRICAL FISHING SYSTEM	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mr. SATHISHA K.	Mr. PREKSHITH LENNON RODRIGUES Mr. CLEAVON DSOUZA Mr. JASON ANTONY QUADRAS Mr. REYAN JAISON DSOUZA
1420.	47S_BE_1882	HAND TREMOR SUPPRESSION GLOVES FOR PARKINSON'S PATIENTS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Ms. ASWATHI T.	Mr. MOHAMMED AKHIL Mr. ANOOP D COSTA Mr. JOSHUA ROBERT LEWIS Mr. MUHAMMAD THASNEEM
1421.	47S_BE_2923	HIGH-SPEED INTERNET CONNECTIVITY USING LI-FI	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Ms. NANDINI MANINARAYANA Mr. SURESH M.	Mr. RIKSON PINTO Mr. SHARANPRAKASH R. Mr. THEJAS N. D. Mr. VIVIAN H. C.
1422.	47S_BE_3361	NON-INVASIVE BLOOD GLUCOMETER	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mr. RADHAKRISHNA	Ms. ANUSHA M J Mr. A. C. SALMANUL FARISH Mr. AARON DSOUZA Mr. AJAY GEORGE M A
1423.	47S_BE_3452	HEAR ALLY APP FOR ENHANCING HEARING HEALTH THROUGH MOBILE SOLUTIONS FOR MENIERS DISEASE	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prs. JENNIFER SALDANHA	Ms. ROSHNI JENICA GOMES Ms. RESHMA CARDOZA Ms. SINCHANA Mr. SONAL TENNISON MONIS
1424.	47S_BE_3522	PROJECTION MATRIX ESTIMATION IN 3D-2D ICP REGISTRATION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. ROSHAN R. NAIK	Mr. ABHISHEK U. ACHARYA Ms. CHAITHRA K DEVADIGA Mr. MAHAMMAD SHABEER Mr. MANISH RAI K.
1425.	47S_BE_0847	DRIVE MODES BASED TIRE INFLATION CONTROL SYSTEM	B.E.	MECHANICAL ENGINEERING	Dr. PURUSHOTHAMA CHIPPAR	Mr. ANSHUL R. SHETTY Mr. ADITHYA BIJU Mr. MAHMOOD SUFAID Mr. MAHMOOD SUFAIL

178. ST. JOSEPHS UNIVERSITY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1426.	47S_MSC_0100	IMPSNET: A DEEP LEARNING MODEL FOR THE CLASSIFICATION OF INDIAN MEDICINAL PLANT SPECIES (IMPS)	M.Sc	BIG DATA ANALYTICS	Dr. SIVAKANNAN S.	Mr. YOBAH BERTRAND YONKOU Mr. JASON ALVIN CHESNEY
1427.	47S_MSC_0076	DEVELOPMENT OF SORGHUM MILLET MILK BASED ICE CREAM INFUSED WITH EDIBLE MARINE SEAWEED AND SORGHUM BASED PROBIOTICS	M.Sc	FOOD SCIENCE AND TECHNOLOGY	Dr. MOHAN KUMAR S. Dr. LOKESH RAVI	Mr. HARI RAMANAN R.
1428.	47S_MSC_0078	EMPOWERING WOMEN HEALTH: READY - TO - EAT PROBUOTIC NEUTRACEUTICAL PRODUCT WITH ENHANCED BIOAVAILABILITY OF CALCIUM	M.Sc	FOOD SCIENCE AND TECHNOLOGY	Dr. ANUPRIYA MAZUMDER Dr. DAVID E HENRY	Ms. JANISHA JOHN FERNANDES

179. ST. PHILOMENA' S COLLEGE. (AUTONOMOUS), MYSURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1429.	47S_MSC_0196	SYNTHESIS, CHARACTERIZATION AND ANTI-INFLAMMATORY ACTIVITY OF INDOLE AND PIPERIDINE ANALOGOUS APPENDED WITH PHENOXY VIA AMIDE LINKAGE	M.Sc	CHEMISTRY	Dr. ZABIULLA Mr. SALIM JAVID	Ms. HAMSA K. R. Ms. ARCHANA K. N. Mr. VIVEK KRISHNAN J. Mr. VISHAL M. R.
1430.	47S_MSC_0230	GREEN GOLD: INVESTIGATION OF EFFICIENCY OF PLANT WASTE EXTRACTS IN AGRICULTURE AND SEWAGE TREATMENT	M.Sc	CHEMISTRY	Dr. ZABIULLA Dr. K. NANDINI	Mr. CHETHAN H. B. Mr. PUNITH K. R. Ms. RAJESHWARI M. Ms. RAKSHITHA K. L.
1431.	47S_MSC_0244	SYNTHESIS OF PIPERAZINE AND MEDICINAL PLANT EXTRACT FOR STUDIES OF ANTHELIMENTHIC ACTIVITY [DRUG-HERB STUDIES]	M.Sc	CHEMISTRY	Dr. ZABIULLA Dr. GULNAZ A. R.	Ms. NIVEDITHA C. R. Ms. KUSUMA H. C. Ms. SNEHA B. Mr. CHANDAN KUMAR K. S.

180. T. JOHN INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1432.	47S_BE_4838	IMPLEMENTATION OF SAFETY MEASURES USING COMPUTER VISION AND MACHINE LEARNING ALGORITHMS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. PRABHA R.	Mr. ASHOK KUMAR A. Mr. HAMID MOHAMED KALALA IRFAN Ms. MAMATHA S. U. Ms. MEENAKSHI KATTA

181. TERESIAN COLLEGE, MYSURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1433.	47S_MSC_0120	ISOLATION AND CHARACTERIZATION OF POLYSACCHARIDES FROM ALLIUM SATIVUM L. PEEL AND ITS APPLICATION IN POST-HARVEST STORAGE OF BANANA	M.Sc	BIOTECHNOLOGY	Mr. WILFRED A.	Mr. BENIN YONATHAN F. Ms. DEEPTHI P. KADLI Ms. PREETHU R. Mr. CHINMAYI B. DOLLIN

182. THE NATIONAL INSTITUTE OF ENGINEERING, MYSURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1434.	47S_BE_2375	EVALUATING THE STRUCTURAL BEHAVIOUR AND SUITABILITY OF SURFACE REPAIR MATERIAL USED FOR REPAIRING OF CONCRETE STRUCTURAL ELEMENTS.	B.E.	CIVIL ENGINEERING	Dr. N. C. BALAJI Dr. GOURAV KRISHNADAS	Ms. KAVERAMMA A. V. Mr. CHANDAN K. R. Mr. DHANANJAY MURTHY K. Mr. MONGLONG PHOM
1435.	47S_BE_3188	ASSESSING THE QUALITY OF DRINKING WATER FILTERED THROUGH COMMERCIAL FILTERS AND DESIGNING SUITABLE GRAVITY WATER FILTERS FOR RESIDENTIAL USAGE	B.E.	CIVIL ENGINEERING	Dr. N. C. BALAJI	Mr. KIRAN KUMAR S. Mr. HEMANTH URS R. Mr. MAHENDRA N. Mr. DHANUSH L.
1436.	47S_BE_3642	INTERNET OF THINGS BASED SMART VEHICLE SECURITY AND SAFETY SYSTEM	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. RESHMA P.	Mr. PAVANA NANDANA S. Mr. ROHAN N. Mr. SHASHANK A. B. Mr. SINCHAN S. S.
1437.	47S_BE_4956	A COMPACT AND LOW POWER DIGITAL TO ANALOG CONVERTOR FOR HEARING AID APPLICATIONS	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. REMYA JAYACHANDRAN	Mr. PUNDLIK ANANT NAYAK Ms. RAKSHA A. R. Ms. SANGEETHA A. SHAYANA Mr. SUHAS SHASTRY H. S.
1438.	47S_BE_3784	PREDICTIVE MAINTENANCE OF HELICAL GEAR USING IOT FOR VARING SPEED	B.E.	MECHANICAL ENGINEERING	Mr. RAVIKIRAN	Mr. DORE PRASAD R. Mr. HARSHIT R. K. Ms. DISHA V. Ms. HARSHITHA S.
1439.	47S_BE_3391	PRECISION SORTING OF COCOONS USING INTELLIGENT VISION TECHNOLOGY	B.E.	MECHANICAL ENGINEERING	Dr. SACHIN B.	Mr. VINAYAK JAKKALI Mr. SHASHANK C. Mr. HARIPRASAD B. S. Mr. SAMARTH JOSHI
1440.	47S_BE_4005	CUSTOMIZED ARM CAST USING 3D PRINTING FOR PATIENTS	B.E.	MECHANICAL ENGINEERING	Dr. SACHIN B.	Mr. VIPIN CHAND Mr. SRINIVASACHAR J. Mr. SUTHEERTH M. Mr. SUJITH M. SWAMY
1441.	47S_MTech_0116	ASSESSING THE CAPACITY OF SHEAR STRENGTHENED R.C BEAMS BY NSM-GFRP STRIPS	M.Tech	STRUCTURAL ENGINEERING	Dr. N.C. BALAJI	Ms. SOUMYA B. GOUDA
1442.	47S_MTech_0117	BOND BEHAVIOR OF GFRP BARS WITH CONCRETE UNDER ELEVATED TEMPERATURE: A COMPARATIVE STUDY WITH GFRP BARS AT AMBIENT TEMPERATURE AND HYSD BARS	M.Tech	STRUCTURAL ENGINEERING	Mr. VADIRAJ RAO N. R.	Mr. YASHAS S.
1443.	47S_MTech_0128	ASSESSMENT OF BOND BEHAVIOR OF GLASS FIBER REINFORCED POLYMER (GFRP) BARS COMPARED TO DEFORMED STEEL BARS AT NORMAL TEMPERATURE	M.Tech	STRUCTURAL ENGINEERING	Mr. VADIRAJ RAO N. R.	Mr. LIKHITH L.

183. THE OXFORD COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)

1444.	47S_BE_3880	INFULENCE OF NANO PARTICULATES ON MECHANICAL AND TRIBOLOGICAL BEHAVIOURS OF FIBER REINFORCED HYBRID COMPOSITE FOR AUTOMOBILE APPLICATIONS	B.E.	AUTOMOBILE ENGINEERING	Dr. RAJU B. R.	Ms. SOWMYA P. Mr. UDBHAV S. R. Mr. MANOJ REDDY M.
1445.	47S_BE_3658	RAILWAY FAULT DETECTION AND ANIMAL RECOGNITION USING IOT AND MACHINE LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. E. SARAVANA KUMAR	Mr. MANJUNATH C. AMMANNAVAR Ms. ANJALI K. V. Ms. HEMAVATHI R. Mr. ANKUR KUMAR
1446.	47S_BE_5459	SMART SHOE FOR DIABETIC PATIENT	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. CHALTRASHREE S.	Ms. AARYA SHAMBHAVI Ms. ARPITA SINHA Ms. A. V. ANISHRI PB Mr. DEBAYAN GHOSH
1447.	47S_BE_0897	AUTOMATED EXHAUST FAN AND FLUSHING SYSTEM	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Mrs. NISHA C. RANI	Mr. DANNY JOHNSON P. Mr. JAMES PRAJWAL V. Mr. MALLIKARJUNA K. V. Mr. SUHAS M.
1448.	47S_BE_4588	DESIGN AND STUDY OF SMART CUP FOR MONITORING HAND ACTIVITY OF STROKE PATIENT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. PREETA SHARAN Mr. JAYARAJ N.	Mr. S. NARASIMHA Mr. RAGHAV AGARWAL Mr. TARUN S. Ms. SPOORTHI B.
1449.	47S_BE_5066	SMART SOLUTIONS FOR SENSORY CHALLENGES IOT MESSAGING FOR ALL DEVICES	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. V. VIJAYA KUMARI	Mr. DEVATI SWARUP Mr. CHANDAN B. V. Ms. BHUVANESHWARI V. Ms. K. NAVYA MADHURI
1450.	47S_BE_1050	RESCUE ROBOT FOR BOREWELL	B.E.	INFORMATION SCIENCE AND ENGINEERING	Ms. VIDHYA S.	Ms. P. NAVYA Ms. NAGASHIRISHA M. SRINIVAS Ms. NITHYA R. Ms. NOORAIN FATHIMA
1451.	47S_BE_4055	SOLAR WIRELESS ELECTRIC VEHICLE CHARGING SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. NIDHI SARASWAT	Mr. SATHYA NARAYAN L. Mr. ALFAHAD BASHA A. Mr. PRAHALLAD S. P. Mr. RAGHUL P.
1452.	47S_BE_0318	DESIGN AND FABRICATION OF WEARABLE SYSTEM FOR REAL-TIME RESPIRATORY AND HEART RATE TRACKING	B.E.	MECHANICAL ENGINEERING	Dr. ANUP M. UPADHYAYA Dr. VARUN K. R.	Mr. PRASHANT RANJAN Mr. DHARMA TEJA Mr. SANDEEP J.
1453.	47S_BE_0363	DESIGN AND FABRICATION OF AUTOMATED WASTE SEGREGATOR	B.E.	MECHANICAL ENGINEERING	Dr. VIDYADHAR PUJAR	Mr. NIKHIL R. Ms. C. NISCHITHA MAHALAKSHMI REDDY Mr. SHAMS MEHDI KHAN

184. THE OXFORD COLLEGE OF SCIENCE, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1454.	47S_MSC_0043	ISOLATION, SCREENING, AND IDENTIFICATION OF LIGNOCELLULOSE-DEGRADING ENZYME-PRODUCING BACTERIA FROM TERMITE GUT MICROBIOTA, AND ENZYME OPTIMIZATION, PURIFICATION AND CHARACTERIZATION.	M.Sc	BIOTECHNOLOGY	Dr. KAVISA GHOSH	Ms. AMESHA PANWAR Ms. SHEETAL PANDEY

185. TONTADARYA COLLEGE OF ENGINEERING, GADAG

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1455.	47S_BE_4819	VOICE CONTROLLED WHEELCHAIR FOR DIFFERENTLY ABLED	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. JAGADEESHWAR G. SHIVANAGUTTI	Mr. SUHAS SOMAPPA BYAHATTI Mr. SIRAJAHAMAD AKBARBASHA ONTI Mr. KARTHIK HULIHALLI Mr. PRAVEEN KUBERAPPA KAMMAR
1456.	47S_BE_5408	DEVELOPMENT OF ENERGY EFFICIENT SOLAR POWERED THERMOELECTRIC REFRIGERATOR USING IOT FOR RURAL PLACES	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. SANTHOSHKUMAR G. M.	Ms. SHRUTI BASAVARAJ HAVALAD Ms. RAKSHITA SOMASHEKAR BOMBLE Ms. PRAKRUTI YALLAPPA DODDAMANI Ms. POOJA BASAWA
1457.	47S_BE_3008	FABRICATION AND CHARACTERISATION OF HYBRID COMPOSITE USING WASTE MEDICAL NEEDLES	B.E.	MECHANICAL ENGINEERING	Prof. K. H. PULIKESHI	Mr. SHIVAMURTAYYA G. RESHMI Mr. MANJUNATH IRANNA BAGALKOTI

		AND CENOSPHERE AS FILLER MATERIAL				Mr. OMKAR G. THORAT Mr. SAGAR S. SARVI

186. UNIVERSITY B.D.T. COLLEGE OF ENGINEERING, DAVANAGERE

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1458.	47S_BE_5289	EYE DESK - THE EMPLOYEE WORK MONITORING SYSTEM	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. MOHAMMED RAFI	Ms. SINCHANA P. Ms. SHRADHA M. POKLE Ms. SONU K. R. Ms. SOUMYA RUDRAPPA GANI

187. UNIVERSITY COLLEGE OF SCIENCE, TUMKUR UNIVERSITY, TUMKUR

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1459.	47S_MSC_0080	LAYERED DOUBLE HYDROXIDE NANOMATERIALS AS EFFFICIENT ELECTRODES FOR SUPERCAPACITOR APPLICATIONS	M.Sc	CHEMISTRY	Dr. S. SREENIVASA Dr. SHET PRAKASH M.	Mr. YOGESH M. V. Ms. SANDHYA H. C. Mr. BHARATH S. B. Ms. ASHWINI R. G.
1460.	47S_MSC_0045	DESIGNING DOMESTIC WATER DISINFECTANT SYSTEM USING AG/ZNS NANOPARTICLES	M.Sc	PHYSICS	Dr. CHIKKAPPA UDAGANI	Mr. OMKAR M. Ms. PALLAVI H. Ms. POOJA L. G.

188. UNIVERSITY VISVESVARAYA COLLEGE OF ENGINEERING, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1461.	47S_BE_2204	USER-CENTRIC DESIGN AND IMPLEMENTATION OF A FILE SHARING PLATFORM WITH REAL-TIME COLLABORATION FEATURES	B.E.	INFORMATION SCIENCE AND ENGINEERING	Dr. KUMARASWAMY S.	Mr. VENKATESH N. Mr. GAJENDRA M. Mr. ANJANEYA MUSTOOR

189. V.S. M'S SOMASHEKHAR R. KOTHIWALE INSTITUTE OF TECHNOLOGY, NIPPANI, BELAGAAVI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1462.	47S_BE_1489	FEDERATED LEARNING FOR PRIVACY PRESERVING ON SCREEN ACTIVITY TRACKING AND CLASSIFICATION IN E-LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. NEELAMMA SHINANNAVAR	Ms. SNEHAL S. SHRIKHANDE VAISHNAVI A. PUJARI AMRUTA A. KUNNURE
1463.	47S_BE_3849	MILITARY WARFIELD ROBOT WITH NIGHT VISION AND AI CONTROLLED AUTOMATED TARGET SHOOTING USING NEURAL PROCESSING UNIT (NPU)	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. ARATI SUDHAKAR Prof. SANTOSH KOLAKI	Ms. ASHWINI KULKARNI Ms. PRAJAKTA BHADARGADE Mr. SANTOSH JADHAV Mr. SUMIT PATIL
1464.	47S_BE_3884	DESIGN AND IMPLEMENTATION OF AN AUTOMATIC HOSPITAL SYSTEM USING IOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. B. I. KATTIMANI Prof. ROHIT PATIL	Mr. ABID GOUNDI Ms. KRANTI KHOT Ms. PRIYANKA PATARAWAT Mr. MALLIKARJUN HUNACHYALE
1465.	47S_BE_1070	REMOTE CONTROL SOLAR LAKE / POOL CLEANER	B.E.	MECHANICAL ENGINEERING	Prof. AMAR V. NAVALIHALKAR	Mr. NAQEEB SHAIKH Mr. ARMAN AFZAL MULLA Mr. SHRAMEET GOVIND MAPARI Mr. SAHIL YASIN BEPARI

190. VEMANA INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1466.	47S_BE_0527	SMART TRACKING SYSTEM FOR PACKAGED PRODUCT USING BARCODE	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. VIJAYASHREE H. P.	Ms. JOYCE MATHEWS Ms. AKSHATHA M. C. Ms. ANKITHA B. R. Mr. KARTHIK V.
1467.	47S_BE_0335	360º WASTE DETECTION ON SURFACE OF THE WATER & QUALITY ANALYSIS USING ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. RAMYA R.	Ms. ABBAVARAM SNEHALATHA Ms. GEETHANJALI M. Mr. KARTHIKA H. T. Mr. KRUTHIK KUMAR R.

1468.	47S_BE_0803	SECURE DATA COMMUNICATION BETWEEN ARMY STATIONS USING STEGANOGRAPHY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. BYRA REDDY G. R.	Mr. KARTHIK REDDY L. G. Mr. BASAVARAJA Mr. MANOJ N. S. Mr. MAHESH M.
1469.	47S_BE_3120	GPS BASED E - TOLL GATE COLLECTION SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Ms. BHAVANA NAGARAJ	Ms. SIRI P. Ms. SHALINI MISHRA Ms. SHWETHA A. Ms. SUMON DAS
1470.	47S_BE_4508	DESIGN AND FABRICATION OF MULTIPURPOSE SEED SOWING MACHINE	B.E.	MECHANICAL ENGINEERING	Mr. NAVEEN KUMAR R. Dr. KIRAN KUMAR	Mr. DARSHAN M. Mr. MALATESHA N. Mr. RAVINDHARA C. H. Mr. VIJAY KUMAR B. R.

191. VIDYA VIKAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, MYSURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1471.	47S_BE_4348	EXPERIMENTAL STUDY ON EXPRESSWAY KINETIC ENERGY RECOVERY SYSTEM	B.E.	CIVIL ENGINEERING	Prof. ANUSHA G. S.	Mr. SNEHA J. NAYAK Ms. LAKSHMI C. D. Ms. MEENAL S. Mr. PRAPUL RAJ B. P.
1472.	47S_BE_4480	EARLY DETECTION OF CORROSION IN RC STRUCTURAL ELEMENTS USING STANDARD ELECTRODE POTENTIAL	B.E.	CIVIL ENGINEERING	Prof. LATHA P.	Ms. PRIYANKA K. M. Mr. MANOJ H. K. Mr. N. R. NITHIN PAYAS Mr. SUMANTH B.
1473.	47S_BE_3925	WALL-E: VACCUME POWER BASED ANTI-GRAVITY ROBOT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SOWMYA M.	Mr. AYUSH H. S. Mr. CHANDAN L. Ms. DEEPALI D. M. Mr. NIKHIL NINGANAGOUDA METI
1474.	47S_BE_4867	SMARTFLAME SYSTEM	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. ASHA R.	Ms. PRIYA H. S. Ms. SPOORTHI G. R. Mr. RAVI KERIKAR Mr. SUHAS M. D.
1475.	47S_BE_4912	SECURE DRIVE: EMPOWERING VEHICLE SAFETY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. PALLAVI J.	Ms. NANDINI S. N. MS. APSARA M. K. Ms. NIRMITHA K. N. Mr. BHASKAR G.
1476.	47S_BE_5362	BEYOND WHEELS: THE SENSORY SMART CHAIR	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. PALLAVI J.	Ms. VAIBHAVI K. H. Ms. SONIKA B. R. Ms. RACHANA M. R.
1477.	47S_MBA_0189	CIRCULAR ECONOMY APPROACH: ECO-FRIENDLY ELEGANCE: REPURPOSING METAL & E-WASTE FOR TRENDY POTTERY	MBA	MBA	Dr. VASANTHI REENA WILLIAMS	Ms. KIRUTHIGA G. Ms. RAKSHITHA N.
1478.	47S_MBA_0137	UTILIZING ARECA HUSK FOR MANUFACTURING PAPER	MBA	MBA	Dr. VASANTHI REENA WILLIAMS	Ms. SHILPA M. R. Ms. AYSHA NASRI Ms. VISHNUPRIYA S. Ms. ANJALI KRISHNA S. R.
1479.	47S_MBA_0179	SUGARCANE BAGASSE FOR EFFECTIVE UTILIZATION OF RESOURCES FOR SUSTAINABLE DEVELOPMENT	MBA	MBA	Dr. VASANTHI REENA WILLIAMS	Ms. ARCHANA M. V. Ms. HARSHA V. Ms. DHANUSHA H. U.

192. VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1480.	47S_BE_3598	DEEPFAKE DETECTION VIA ENSEMBLE TECHNIQUES	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. ANJALI R. Dr. VINUTHA D. C.	Ms. MANOGNA C. G. Ms. MEDHA M. Mr. BHUVAN J. Ms. PRAGYA S. BABU
1481.	47S_BE_5250	INTERACTIVE AIR CANVAS USING COMPUTER VISION	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Dr. CHETHAN B. K.	Ms. RESHMA R. Mr. RAHUL S. B. Ms. SHARVARI R. Ms. VAISHNAVI S.
1482.	47S_BE_2748	DAMAGE DETECTION IN CONCRETE STRUCTURES USING MACHINE LEARNING TECHNIQUE	B.E.	CIVIL ENGINEERING	Dr. RAJEETH T. J. Dr. VARSHITHA D. N.	Ms. MONIKA R. Ms. SOWPRATHI P. Ms. PADMA NORZIN Mr. MOHAMMED ABBAS
1483.	47S_BE_4509	INDOOR AIR QUALITY ASSESSMENT AND MONITORING OF NEWLY CONSTRUCTED CLASSROOMS IN VVCE CAMPUS USING INTERNET OF THINGS (IOT)	B.E.	CIVIL ENGINEERING	Dr. SHILPA B. S.	Ms. JAHNAVI RAJ Ms. SNEHA S. Mr. TAJAMUL RASOOL
1484.	47S_BE_4788	TREATMENT OF DOMESTIC WASTEWATER USING	B.E.	CIVIL ENGINEERING	Prof. D. P. MAHESH	Mr. S. K. CHANDAN KUMAR Mr. SHASHANK C. R.

		VERTICAL FLOW CONSTRUCTED WETLANDS				Mr. JEEVAN S. Mr. RAJATH S.
1485.	47S_BE_3355	EMOTION-BASED MUSIC RECOMMENDATION SYSTEM WITH AGE DETECTION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. VIJAY C. P.	Mr. KALPAK S. Mr. AKASH BASKAR S. Mr. J. B. AKHIL RAJ Mr. K. S. PRAVEEN
1486.	47S_BE_4688	RAILWAY WASTE MANAGEMENT SYSTEM WITH IOT INTEGRATION	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHRADDHA C.	Mr. SHASHANK K. S. Mr. THARUN NANDAN R. J. Mr. SUSHANTH S. ACHARYA
1487.	47S_BE_5293	A FULL-FLEDGED APPLICATION TO FIND EDUCATIONAL INSTITUTE / IT EMPLOYEES STRESS LEVEL USING MACHINE LEARNING ALGORITHMS	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. BHAVYA B. G.	Ms. NAVYA B. Ms. MADHULIKA M. P.
1488.	47S_BE_5246	AUTONOMOUS SOLAR GRASS MOWER	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. AVINASH R.	Ms. SHIVANI SATHISH Mr. ASHRITH M. KOUSHIK Mr. MANEESH N. Mr. HARSHA N.
1489.	47S_BE_0605	PROGRAMMABLE CLOCK MANAGEMENT UNIT	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. CHAITHANYA D. J. Dr. C. M. PATIL	Ms. RAMYA Ms. PRATHIKSHA H. L. Mr. SUHAS Mr. SHREYA R.
1490.	47S_BE_3623	"AGRITECH": A MULTI-FEATURE UGV FOR ENHANCED AGRICULTURAL PRODUCTIVITY	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Mrs. BHANU H. S. Mrs. SAHANA M. S.	Mr. MANOJ GOWDA B. Ms. JAHNAVI N. Ms. KOTA VAISHNAVI Ms. NIKSHA M.
1491.	47S_BE_1491	CAR CRASH DETECTION AND REPORTING SYSTEM USING DEEP LEARNING	B.E.	INFORMATION SCIENCE AND ENGINEERING	Mr. MUHAMMED MUDDASIR	Ms. MADEEHA SIDDIQUI Ms. BI AYESHA Mr. LAKSH DECHAMMA M. U. Ms. JAHNAVI H. S.
1492.	47S_MBA_0180	A STUDY ON ANALYSIS OF CROSS FUNCTIONAL DRIVERS' IMPACT ON AGRICULTURE SUPPLY CHAIN PERFORMANCE OF FARMERS W.R.TO VEGETABLES AT MYSORE REGION	MBA	MARKETING	Dr. SOMASHEKHAR I. C. Dr. PSV BALAJI RAO	Mr. DARSHAN L. M. Mr. KARTHIK G. Ms. H. R. KAVYA Ms. HRITHIKA B. E.
1493.	47S_MBA_0171	ECO CATALYSTS: INVESTIGATING THE IMPACT AND CHALLENGES OF WASTE COLLECTOR PRACTICES ON SUSTAINABILITY	MBA	MBA	Dr. PSV BALAJI RAO Mr. JAIGANESH M. N.	Ms. DISHA U. Ms. SAVITHA R. Ms. SUCHITHRA J. T. Ms. CHINNAMA
1494.	47S_BE_2915	DESIGN AND FABRICATION OF MULTIPURPOSE AGRICULTURE MACHINE	B.E.	MECHANICAL ENGINEERING	Prof. JAYSHANKAR N.	Ms. NAVYA A. C. Mr. YASHAS HEJJIGE K. M. Mr. PRASHANTH M. C. Mr. SOURABH SHANTHARAM HEGDE
1495.	47S_BE_2998	DESIGN AND DEVELOPMENT OF FOLDABLE ELECTRIC VEHICLE	B.E.	MECHANICAL ENGINEERING	Prof. AKSHAY S. BHAT	Mr. P. ANIKETH SOLANKI Mr. PRAJWAL K. KALAL Mr. KARTHIK P. Mr. MANOJ S.
1496.	47S_BE_3747	DESIGN AND FABRICATION OF SOLAR RECHARGABLE MULTIPURPOSE ELECTRIC CART FOR SMALL SCALE VEGETABLE VENDER	B.E.	MECHANICAL ENGINEERING	Dr. RAGHU N.	Mr. SAI PRAJWAL D. S. Mr. UJWAL S. Mr. RAKSHITH K. S. Mr. SHREEKANTH P.
1497.	47S_BE_4070	DESIGN AND FABRICATION OF REFRIGERATION SYSTEM FOR PHYSICALLY CHALLENGED	B.E.	MECHANICAL ENGINEERING	Prof. AMRUTH E.	Mr. KAMAL C. Mr. NAREN GIRISH Mr. NITHIN K. G. Mr. MANIKANTAGOWDA B. PATIL
1498.	47S_BE_4999	A CFD STUDY ON NON-NEWTONIAN FLUID FLOW THROUGH VENTURIMETER	B.E.	MECHANICAL ENGINEERING	Prof. SUDHARSHAN N. Prof. RANJITH K.	Mr. THASHWIN R. Ms. JAHNAVI P. Mr. SHREENIDI C. Mr. SUMANTH B. M.

193. VIJAYA COLLEGE, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1499.	47S_MSC_0059	DISCOVERY OF NEW BIS-IMIDAZOLE HETEROCYCLIC HYBRIDS; SYNTHESIS, ELECTROCHEMICAL, IN VITRO AND IN SILICO BIOLOGICAL ASSAYS	M.Sc	ORGANIC CHEMISTRY	Dr. S. M. BASAVARAJAIAH Dr. SHARANGOUDA PATIL	Mr. BHARGAV P. Mr. SHREYAS R.
1500.	47S_MSC_0060	DESIGN, SYNTHESIS, SPECTRAL ANALYSIS, ELECTROCHEMICAL AND BIOLOGICAL PROPERTIES OF NOVEL ISATIN BASED IMIDAZOLE	M.Sc	ORGANIC CHEMISTRY	Dr. S. M. BASAVARAJAIAH	Mr. VISHWAS ARADHYA K. J. Mr. HEMANTH T. J. Mr. NAVEEN H. R.

		DERIVATIVES: IN VITRO AND IN SILICO STUDIES				

194. VIJAYA VITTALA INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1501.	47S_BE_4863	DETECTING FAKE NEWS IN SOCIAL MEDIA USING VOTING CLASSIFIER	B.E.	COMPUTER SCIENCE AND ENGINEERING	Mrs. MANGALA PATIL Prof. WILLIAM DEEPAN	Ms. DEVI D. Ms. JYOTHI PRIYA L. Ms. ROSHNI JUDE J. Ms. UCHHULA RATNA MELODY
1502.	47S_BE_3688	AEROBRAIN: THE ULTIMATE DIY FLIGHTCONTROLLER SOLUTION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. KUSUMA S SALANKE	Ms. PRIYANKA Ms. SAMANTHA GLORIA Mr. HARI NARAYANA

195. VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY, BALLARI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1503.	47S_MTech_0134	AGGLOMERATION OF MANAGANESE FINES FOR EFFECTIVE UTILIZATION IN FERRO ALLOY MANUFATURING	M.Tech	MINERAL PROCESSING	Prof. P. SHARATH KUMAR	Mr. K. SURYA KOUSHIK Ms. ASHALATHA P. Mr. SHRISHAILA T.

196. VISVESVARAYA TECHNOLOGICAL UNIVERSITY CENTRE FOR P.G. STUDIES, MYSURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1504.	47S_MCA_0039	GARBAGE COLLECTION APPLICATION	M.C.A.	COMPUTER APPLICATIONS	Dr. VIKAS S.	Ms. PRATHIBIMBA D. H. Ms. NIVEDITA M. H. Ms. CHINMAYEE C. P. Ms. SONU S.
1505.	47S_MBA_0098	SOLID WASTE MANAGEMENT IN MYSURU CITY	MBA	MBA	Dr. BHAGYALAKSHMI K. Dr. BABITHA THIMMAIAH N.	Mr. SANJAY KIRAN H. K. Ms. SPANDANA T. S. Ms. RADIKA K. G. Ms. PRIYANKA S.

197. VISVESVARAYA TECHNOLOGICAL UNIVERSITY, DEPARTMENT OF P.G. STUDIES, BELAGAAVI

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1506.	47S_BE_5416	DESIGN AND DEVELOPMENT OF VERSATILE HUMANOID SERVICE ROBOT	B.E.	ROBOTICS AND AUTOMATION	Dr. ANIL POL	Mr. CHINMAYAGOUDA PATIL Ms. DIVYA HEGDE Mr. SUMANT MALAJI Mr. YOGESH BADIGER

198. VIVEKANANDA COLLEGE OF ENGINEERING AND TECHNOLOGY, PUTTUR, DAKSHINA KANNADA

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1507.	47S_BE_3285	DIABETIC RETINOPATHY DETECTION USING CNN	B.E.	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Prof. VAISHNAVI K. V.	Mr. BHEEMAIAH M. B. Mr. DHANUSH CHINMAY R. Mr. NIKSHITH SURENDRA Mr. VAISHAK NACHAPPA B P
1508.	47S_BE_2842	DESIGN AND ANALYSIS OF G+4 FLOOR BUILDING	B.E.	CIVIL ENGINEERING	Prof. SUREKHA T. Dr. SUBHRAMANYA R. M.	Mr. SUJAY S. Mr. BHARATHRAJ K. Mr. ABHIRANJAN H.
1509.	47S_BE_4654	INFLUENCE OF MEMBRANE BIOREACTOR UNIT DESIGNED USING LOCALLY AVAILABLE MATERIALS FOR THE RURAL RESIDENTIAL DISPOSAL	B.E.	CIVIL ENGINEERING	Dr. SOWMYA N. J.	Ms. SHREYA D. MOOLYA Ms. DEEKSHITHA Ms. BHAVANI G. R.
1510.	47S_MCA_0016	SMART BEEHIVE MONITORING SYSTEM FOR SUSTAINABLE BEEKEEPING	M.C.A.	COMPUTER APPLICATIONS	Dr. VANDANA B. S.	Mr. SHODHAN P. G.
1511.	47S_BE_0888	HASTHA SAMUDRIKA	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. PRAMOD KUMAR P. M.	Ms. SHRAVYA M. Ms. THRISHA B. BHAT Ms. PRUTHVI SHANKAR NAIK Ms. SAMIKSHA B.

1512.	47S_BE_1798	HEALTHCARE MONITORING FOR PREGNANT WOMEN USING IOT AND ML	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. UMA K. P.	Ms. NISHMITHA K. Ms. HARSHITHA P. Ms. POOJA M. Mr. GOKUL K. J.
1513.	47S_BE_1815	CHICKEN DISEASE CLASSIFICATION BASED ON FECES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SAVITHA M.	Ms. SHARVANI K. Mr. TUSHAR SHETTY Ms. CHAITHANYA RAO
1514.	47S_BE_1840	DETECTION OF DENTAL CAVITY	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. PRADEEP KUMAR K. G.	Mr. PRABUL UMESH DURGEKAR Ms. KRITHISHA Ms. MEDINI H. Mr. MUKUNDA S. V.
1515.	47S_BE_2004	EYESHARP	B.E.	COMPUTER SCIENCE AND ENGINEERING	Dr. JEEVITHA B. K.	Mr. H. DHEERAJ K. Mr. ABHIRAMDEV N. Mr. ASHWIN NARAYANAN Mr. KEERTHI G.
1516.	47S_BE_2309	SPEAKSURE- SYSTEM FOR DETECTING AI GENERATED FAKE VOICES	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SHRINIDHI A.	Ms. GAUTHAMI K. T. Ms. GEETHA K. M. Ms. NIRIKSHA K. Ms. POOJASHREE K.
1517.	47S_BE_3287	DESIGN AND IMPLEMENTATION OF A SMART INHALER FOR ASTHMA	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. SHREYAS H.	Mr. VAIBHAV NANAIAH B. P. Mr. CHARAN S. M. Mr. PRAJWAL C. J. Mr. SOMANNA M. D.
1518.	47S_MBA_0034	SUSTAINABLE ENERGY PRACTICES: A STUDY ON SOLAR ENERGY USAGE IN SELECTED DAKSHINA KANNADA TALUKS	MBA	FINANCE AND HUMAN RESOURCE	Prof. ASHLEY D SOUZA Mr. RAKESH M.	Ms. DEEKSHA RAI Mr. SHIVU A. V. Ms. HARSHITHA K. K. DHANYESH S N

199. VIVEKANANDA INSTITUTE OF TECHNOLOGY, BENGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1519.	47S_BE_3671	EXPERIMENTAL STUDY ON INFLUENCE OF NANO SILICA ON CEMENT PASTE AND MORTAR	B.E.	CIVIL ENGINEERING	Mr. HARISH T. S.	Mr. K. DIVYA Mr. KAVYA B. R. Mr. MADHU SHARAN

200. YENEPOYA INSTITUTE OF TECHNOLOGY, MOODBIDRI, MANGALURU

Sl. No.	PROPOSAL REFERENCE NO.	PROJECT TITLE	COURSE	BRANCH	NAME OF THE GUIDE(S)	NAME OF THE STUDENT(S)
1520.	47S_BE_0244	FRAMEWORK FOR IMAGE TO RECIPE GENERATION SYSTEM USING DEEP LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. MANJUNATH RAIKAR	Mr. KARTHIKEYAN Ms. BRINDA R. Ms. U. PRATHIKSHA SHENOY Mr. VIGNESHWARAN
1521.	47S_BE_1224	MORPHOLOGICAL ANALYSIS OF DENTAL IMAGES USING DEEP LEARNING	B.E.	COMPUTER SCIENCE AND ENGINEERING	Prof. SLEEBA MATHEW C.	Mr. SAMARTH P. NAIK Mr. SOUPARNIKA S. D. Mr. IBRAHIM NASEEF Mr. MOHAMED SAHIL
1522.	47S_BE_4295	SMART AGRO FARM GUARD AND IRRIGATION CONTROL	B.E.	ELECTRICAL AND ELECTRONICS ENGINEERING	Prof. G. B. PRAVEEN	Mr. GURUPRASAD Mr. ABHISHEK Mr. GANESHA Mr. ABHISHEK R.
1523.	47S_BE_1645	AQUANEBULA: AIR-TO-WATER GENERATOR	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. GANGADHARA	Ms. VEEKSHITHA Ms. HITHA S. CHOWTA Ms. NAEEMA THASNEEM Ms. SAVI S. CHOWTA
1524.	47S_BE_2162	BREATHEZEO -ZEOLITE'S SOLUTION FOR AIR PURIFICATION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Prof. PAVITHRA S. G.	Ms. ASHALATHA Ms. CHAITHANYA N. D. Ms. SHRIRAKSHA Ms. SHRUTHI NAYAK
1525.	47S_BE_5131	YEN VISION	B.E.	ELECTRONICS AND COMMUNICATION ENGINEERING	Dr. SHASHANK M. GOWDA	Mr. SAGAR R. S. Mr. KHADER AFEEZ ADDUR Mr. MUHAMMAD ARSHAD Mr. PRAKASH JASON LOBO
1526.	47S_BE_2064	AUTOMATED CAMERA TRACKING AND IR EMISSION SYSTEM	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. ASIF MULLA	Ms. SAFA BANU Ms. SAHANA Mr. ANMOL FERNANDIS Mr. RAJATH
1527.	47S_BE_2086	DOORBELL SYSTEM FOR DEAF USING IOT	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. ASIF MULLA	Ms. SHREERAKSHA Mr. SHASHANTH Mr. ASHWATH SHETTY S. Mr. MANJUNATHA SHETTY

1528.	47S_BE_3680	SECUREPIX: KEEPING MESSAGES SAFE IN PIXELS THROUGH ECC	B.E.	INFORMATION SCIENCE AND ENGINEERING	Prof. DEEKSHA K. R.	Mr. STEEVAN SEBASTIN Mr. NADEEM NOUSHAD Mr. PRANAV T. S. Mr. SARIES FARIJE
1529.	47S_BE_2069	AUTOMATIC HANDBRAKE SYSTEM	B.E.	MECHANICAL ENGINEERING	Prof. VENKATESH RAO Prof. RAVINDRA NAIK	Mr. ANANDHU ANILKUMAR Mr. AKSHAY K. Mr. ANASYOOTH V. P. Mr. DISHEIK K.
1530.	47S_BE_3306	DESIGN AND FABRICATION OF SPINAL SUPPORT FOR PREGNANT WOMEN	B.E.	MECHANICAL ENGINEERING	Prof. VANI R.	Mr. MUHAMMED JAFER K. P. B. Mr. ANANDHU K RAJEEVAN Mr. JISHNU PRASANTH Mr. NIKETH JAYARAJ

Annexure II

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru - 560012

LIST OF PROJECTS AWARDED UNDER THE 47th SERIES OF STUDENT PROJECT PROGRAMME: 2023 – 24

Annual State-level Poster Presentation and Exhibition of Projects selected under 47th series of SPP held at Sharnbasva University, Kalaburagi on 9th and 10th August, 2024

BEST PERFORMING COLLEGE AWARD:

DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU

BEST PROJECTS OF THE YEAR:

POSTER PRESENTATION PROJECTS

AERONAUTICAL ENGINEERING

Sl. No.	Project. No.	PROJECT SANCTION REFERENCE NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
1)	4.	47S_BE_3284	EXPERIMENTAL AND ANALYTICAL STENGTH INVESTIGATION OF REPAIRED FRP LAMINATES • NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE (S) : Mr. RAMVISHAL G. AND Dr. SRIKANTH H. V. STUDENT (S) : Mr. SHASHI KUMAR S., Ms. PRAGATHI B. S. AND Mr. SHREE NARESH

BIOCHEMISTRY

2)	12.	47S_MSC_0009	INTEGRATED PEST MANAGEMENT STRATERGIES AND ESTERASE ANALYSIS FOR CONTROLLING FALL ARMYWORM INFESTATIONS IN GRAMINAEAE CROPS: A STUDY ON THE ROLE OF TEPHROSIA PURPUREA AND PORTULACA OLERACEA EXTRACTS • REVA UNIVERSITY, BENGALURU GUIDE (S) : DR. SHARADAMMA N. AND DR. RAMESHKUMAR KUSHWAHA STUDENT (S) : MS. C. SUDHA MAYU, MS. SUSHMA SUNKAD AND MR. GANESH K. L.

BIOTECHNOLOGY

3)	14.	47S_BE_3257	DEVELOPMENT OF BIODEGRADABLE SACS FOR FRUIT RIPENING USING RICE STARCH • G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE GUIDE (S) : DR. GURUMURTHY H. AND DR. PRADEEP M. J. STUDENT (S) : MS. NAVYA J. M., MS. NAMITHA H. N., MS. PRIYA R. PANIBHATE AND MS. TANAYA TIWARI

CHEMICAL ENGINEERING

4)	23.	47S_BE_0797	GREEN SYNTHESIS OF NANO COPPER BASED LUBRICANTS FROM ELECTRONIC WASTE • R.V. COLLEGE OF ENGINEERING, BENGALURU GUIDE (S) : Prof. ANUPAMA V. JOSHI AND Dr. VINOD KALLUR STUDENT (S) : Mr. MIHIR PATIL, Mr. V. AKSHAY HARIHARAN AND Mr. MOHAMMED AFZAN

CIVIL ENGINEERING

5)	32.	47S_BE_3141	EFFECT OF STEEL SLAG AND RECLAIMED ASPHALT PAVEMENT (RAP) ON MOISTURE SUSCEPTIBILITY AND FATIGUE CHARACTERISTICS OF STONE MASTIC ASPHALT MIX • BANGALORE INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE (S) : Mr. S. POORNACHANDRA THEJASWI STUDENT (S) : Mr. VIDHATH S. V., Ms. TEJASWINI T., Mr. NITHISH K. M. AND Ms. YOGESHWARI D. M.
6)	36.	47S_BE_4324	SUSTAINABLE PAVER BLOCKS: INCORPORATING DEMOLISHED CONCRETE WASTE AND PLASTIC WASTE FOR ENHANCED PROPERTIES AND ENVIRONMENTAL BENEFITS • JAIN COLLEGE OF ENGINEERING, BELAGAAVI GUIDE (S) : Ms. VARSHA GOKAK STUDENT (S) : Mr. OMKAR T. HANCHINMANI, Mr. ANIL KUMAR S. PATIL, Mr. ANIL Y. DEVALATTI AND Mr. SAGAR L. TALAWAR
7)	43.	47S_BE_4298	RESILIENT MODULUS OF GEOSYNTHETIC REINFORCED RECYCLED AGGREGATES • RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE (S) : Dr. ASHA M. NAIR. STUDENT (S) : Mr. CHANDRA SHEKAR V., Mr. KIRAN H. S., Mr. BASAVARAJ BIRADAR AND Mr. RAHUL
8)	47.	47S_BE_4348	EXPERIMENTAL STUDY ON EXPRESSWAY KINETIC ENERGY RECOVERY SYSTEM • VIDYA VIKAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, MYSURU GUIDE (S) : Prof. ANUSHA G. S. STUDENT (S) : Ms. SNEHA J. NAYAK, Ms. LAKSHMI C. D., Ms. MEENAL S. AND Mr. PRAPUL RAJ B. P.

COMPUTER APPLICATIONS

9)	55.	47S_MCA_0074	JARVIS VOICE ASSISTANT FOR ACADEMICS USING NLP • K.L.E. INSTITUTE OF TECHNOLOGY, HUBBALLI GUIDE (S) : Mrs. LAXMI PUJARI STUDENT (S) : Mr. ADARSH KALMESHWAR KAMMAR, Mr. VISHALU S. KUDLEPPANAVAR, Ms. SUMAN J. HEGDE, Mr. ARUN MOPAGAR AND Ms. SRUSHTI DODAWAD

10)	59.	47S_MCA_0058	BEYOND BOUNDARIES: ENGINEERING JOURNEYS IN RURAL COMMUNITIES THROUGH XR • R.V. COLLEGE OF ENGINEERING, BENGALURU GUIDE (S) : Dr. PREETHI N. PATIL AND Dr. ANDHE DHARANI STUDENT (S) : Mr. SRIJITH V., Ms. VIBHA T. R. AND Ms. SINDHU S.

COMPUTER SCIENCE AND ENGINEERING

11)	63.	47S_BE_1049	KANNADA ABSTRACTIVE TEXT SUMMARIZATION USING SEQUENCE TO SEQUENCE MODEL • B.L.D.E.A'S V.P. DR. P.G.HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA GUIDE (S) : Prof. DAKSHAYANI M. IJERI. STUDENT (S) : Ms. SNEHA G. SAJJAN, Ms. ALIYA BARGUDI AND Ms. RITIKA GANGAVATI
12)	64.	47S_BE_0343	CROWD PREDICTION FOR BUS LINES USING ARTIFICIAL INTELLIGENCE • B.V.V.S BILURUR GURUBASAVA MAHASWAMIJI INSTITUTE OF TECHNOLOGY, MUDHOL GUIDE (S) : Prof. VARUN P. SARVADE AND Prof. VINAYAK A. TELSANG STUDENT (S) : Mr. GOPAL R. CHENNI, Ms. PRADNYA S. BILAGI, Mr. DHANUSH J. YADAV AND Mr. NIRANJAN S. PURAD
13)	81.	47S_BE_0909	A DEEP LEARNING APPROACH TO DETECT RHEUMATOID ARTHRITIS USING X-RAY IMAGES AND BIO-MARKERS • MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOODBIDRI GUIDE (S) : Dr. PRADEEP B. S. STUDENT (S) : Mr. SOURABH P., Mr. SHREYAS S. TANTRI, Mr. SHREYAS SHETTY B. AND Mr. VINAYAK NAYAK N.
14)	84.	47S_BE_2794	TULIPU, A DIGITAL PLATFORM FOR PROMOTING TULU CULTURE • N.M.A.M. INSTITUTE OF TECHNOLOGY, NITTE GUIDE (S) : Dr. RAGHUNANDAN K. R. AND Dr. RADHAKRISHNA DODDMANE STUDENT (S) : Mr. SUVITH KUMAR, Mr. ADARSH J. SHETTY, Mr. AMITH JAGANNATH SOORENJI AND Mr. PRATHIK K. ACHARYA

ELECTRICAL AND ELECTRONICS ENGINEERING

15)	96.	47S_BE_1435	AGRICULTURAL UTILITY VEHICLE WITH FIELD MONITORING USING IOT • BAPUJI INSTITUTE OF ENGG., AND TECHNOLOGY, DAVANAGERE GUIDE (S) : Dr. SHIVAKUMARASWAMY G. M. STUDENT (S) : Mr. SURAJ PRAKASH KADUR, Ms. PRIYANKA NINGAPPA NAREGAL, Ms. SAHANA RAMESH METI AND Ms. SNEHA RAMESH SORATUR

16)	98.	47S_BE_5330	GENERATION OF POWER, EXTRACTING MAXIMUM POWER FROM URINE WASTE THROUGH MICROBIAL FUEL CELL. • PRESIDENCY UNIVERSITY, BENGALURU GUIDE (S) : Mr. BISHAKH PAUL STUDENT (S) : Mr. KUSHAL R., Mr. RAMEGOWDA K. T., Ms. HAMSA SHREE R. AND Ms. FIZA

ELECTRONICS AND COMMUNICATION ENGINEERING

17)	108.	47S_BE_3428	DESIGNING OF MIMO ANTENNA FOR SIGNAL BOOSTER DEVICE TO ENHANCE THE SIGNAL CONNECTIVITY IN RURAL AREAS. • NAGARJUNA COLLEGE OF ENG., AND TECHNOLOGY, BENGALURU GUIDE (S) : Dr. VIVEK SINGH STUDENT (S) : Mr. NASEER ULLA KHAN, Mr. RAHUL YADAV, Ms. PRIYANKA R. AND Ms. GOWTHAMI L. R.
18)	112.	47S_BE_4956	A COMPACT AND LOW POWER DIGITAL TO ANALOG CONVERTOR FOR HEARING AID APPLICATIONS • THE NATIONAL INSTITUTE OF ENGINEERING, MYSURU GUIDE (S) : Dr. REMYA JAYACHANDRAN STUDENT (S) : Mr. PUNDLIK ANANT NAYAK, Ms. RAKSHA A. R., Ms. SANGEETHA A. SHAYANA AND Mr. SUHAS SHASTRY H. S.

INFORMATION SCIENCE AND ENGINEERING

19)	124.	47S_BE_3585	UNCOVERING THE INTERNET-BASED MERCHANDISE USING SENTIMENT EVALUATION AND MACHINE LEARNING ALGORITHMS • S.E.A. COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU GUIDE (S) : Dr. NIJAGUNA G. S. STUDENT (S) : Mr. MOHAMMED AZMATHULLA, Mr. SHABAZ PASHA, Mr. BRIJ BHUSHAN KUMAR AND Mr. BASAVARAJ RAJUR

MBA

20)	129.	47S_MBA_0158	INNOVATIVE APPROACHES FOR E-WASTE RECYCLING AND RESOURCE RECOVERY WITH REFERENCE TO DAVANGERE CITY (KARNATAKA) • G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE GUIDE (S) : Dr. K. JAGADESWARI AND Mr. SHREESHAILA P. VIJAVAPUR STUDENT (S) : Ms. RAKSHITHA M., Mr. SUMAN M., Mr. MEGHARAJ P. AND Mr. BHARATESH A. P.
21)	130.	47S_MBA_0032	ORGANIC PAPER BAG: WITH PLANTABLE PAPER BAGS • KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR GUIDE (S) : Mrs. SUJATHA N. SHEERI STUDENT (S) : Ms. S. MADHURA, Ms. YASHASWINI H. J., Mr. JEEVAN G. L. AND Mr. KIRAN M. C.

MECHANICAL ENGINEERING

22)	138.	47S_BE_2299	BIODIESEL FROM WASTE COOKING OIL AND ITS CHARACTERIZATION WITH NANOMATERIALS: ECO-FRIENDLY SYNTHESIS AND EXPERIMENTAL INVESTIGATION FOR PERFORMANCE AND EXHAUST EMISSIONS • SECAB INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA GUIDE (S) : Dr. SYED ABBAS ALI AND Mr. ALTAF HUSSAIN BAGAWAN STUDENT (S) : Mr. ABDUL KAREEM, Mr. IRSHAD AHMAD AND Mr. KHAN ANAS JAVED

MEDICAL ELECTRONICS

23)	139.	47S_BE_2083	NEUROMIST REVIVE: MOIST HEAT THERAPY FOR SPINAL RECOVERY AND BACKACHE RELIEF • DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU GUIDE (S) : Prof. NANDITHA KRISHNA STUDENT (S) : Ms. NISARGA V. AND Ms. LAXMI

MICROBIOLOGY

24)	140.	47S_MSC_0125	DESIGN AND DEVELOPMENT OF SUSTAINABLE PLANT BASED CELLULOSE FILTERS FOR WASTEWATER PURIFICATION • GARDEN CITY UNIVERSITY, BENGALURU GUIDE (S) : Dr. PREMA KULKARNI AND Dr. SHEEJA M. S. STUDENT (S) : Mr. AYANAVA GOSWAMI, Mr. ASHUTOSH KUMAR AND Mr. TANMAY PRASHANT GADANKUSH

MINERAL PROCESSING

25)	143.	47S_MTech_0134	AGGLOMERATION OF MANAGANESE FINES FOR EFFECTIVE UTILIZATION IN FERRO ALLOY MANUFATURING • VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY, BALLARI GUIDE (S) : Prof. P. SHARATH KUMAR STUDENT (S) : Mr. K. SURYA KOUSHIK, Ms. ASHALATHA P. AND Mr. SHRISHAILA T.

EXHIBITION PROJECTS

AERONAUTICAL ENGINEERING

26)	155.	47S_BE_2767	DESIGN AND DEVELOPMENT OF 3DOF TESTING MECHANISM FOR UAV • GOPALAN COLLEGE OF ENGINEERING AND MANAGEMENT, BENGALURU GUIDE (S) : Mr. SUPRITH M STUDENT (S) : Mr. GAGAN D., Ms. HEMASHREE D. S., Mr. SYED SULTHAN K. AND Mr. VARUN REDDY

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

27)	164.	47S_BE_4142	DATA WIZARD • JYOTHY INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE (S) : Dr. MADHU B. R. AND Mrs. RAMYA B. N STUDENT (S) : Ms. NEETHU C. V., Ms. KRUTHIKA K. S., Ms. RAKSHA AND Ms. SHARANYA NARESH
28)	166.	47S_BE_5138	PRECISION FARMS: ACCELERATED AGRICULTURE ANALYTICS WITH EDGE COMPUTING • SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU GUIDE (S) : Dr. PRAMOD T. C. STUDENT (S) : Mr. MARUTHI R., Mr. ABHISHEK S., Mr. AKSHATH G. AND Mr. CHETAN MANAGAVI

AUTOMOBILE ENGINEERING

29)	167.	47S_BE_2450	DESIGN AND DEVELOPMENT OF IMMMERSION COOLED BATTERY PACK FOR ELECTRIC VEHICLES • DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU GUIDE (S) : Dr. S. JENORIS MUTHIYA STUDENT (S) : Mr. VAROON MARIAN A. S., Mr. GANESHA T., Mr. MOHAMMED HAYATH SHARIFF AND Mr. SUJITH M.C.

CIVIL ENGINEERING

30)	173.	47S_BE_0314	ADVANCED TREATMENT METHOD OF SALINE WATER USING THERMAL DESALINATION, OSMATIC MEMBRANE AND GEO-TEXTILE FILTER MEDIA • DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT, BENGALURU GUIDE (S) : Prof. SHREYAS B. V. AND Dr. K. N. VISHWANATH STUDENT (S) : Mr. YASHAS R., Ms. YASHASWINI M., Mr. PRAJWAL S. AND Mr. N. B. VISHWANATH

COMPUTER SCIENCE AND ENGINEERING

31)	195.	47S_BE_4460	AQUALINK COMMUNICATION USING ACOUSTIC MODEM • Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE (S) : Dr. MADHU B. STUDENT (S) : Ms. LIKHITHA R., Ms. LAVANYA N., Ms. PRAJNA M. S. AND Ms. POOJA K. C.

32)	198.	47S_BE_0409	RAILSAFE: ADVANCING RAILWAY SAFETY THROUGH AUTOMATED GATE CONTROL, SMOKE DETECTION AND AIRBAG SYSTEM • EAST WEST INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE (S) : Dr. ACHYUTHA PRASAD N. STUDENT (S) : Ms. PRIYA S., Ms. PRIYA R., Ms. PREKSHA C. AND Ms. PAVITHRA M. R.
33)	207.	47S_BE_1314	VENOMX: EMPOWERING WINDOWS WITH A VOICE-POWERED AI ASSISTANT • HIRASUGAR INSTIUTE OF TECHNOLOGY, BELAGAAVI GUIDE (S) : Dr. MAHESH G. HUDDAR STUDENT (S) : Mr. ADITYA Y. KESARKAR, Ms. AKHILA RENDALE, Ms. SHRADDHA PATIL AND Mr. SIDDAPPA GODI
34)	221.	47S_BE_2699	SMART IOT-ENABLED FLORAL WASTE RECYCLING SYSTEM FOR SUSTAINABLE BIOMATERIAL PRODUCTION • R.R. INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE (S) : Dr. MANJUNATH R. STUDENT (S) : Mr. SUHAIL N., Mr. HETHISHE B. J., Ms. SRUSHTI H. K. AND Mr. DEEPAK R.
35)	222.	47S_MTech_0074	MEDICAL TRAINING USING VIRTUAL REALITY • RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE (S) : Dr. S. RAJARAJESWARI STUDENT (S) : Ms. ALISHA AHMED
36)	226.	47S_BE_0283	SOLAR POWERED-WATER DESALINATION AND LIVESTOCK WATERING SYSTEM FOR RURAL INDIA • S.G. BALEKUNDRI INSTITUTE OF TECHNOLOGY, BELAGAAVI GUIDE (S) : Mrs. SHEETAL PATIL AND Dr. P. B. BHAGAWATI STUDENT (S) : Mr. SHUBHAM REDDY, Ms. AISHWARYA SULGEKAR, Mr. SHIVARAJ SHEELVANT, Ms. SYEDA ASRA ANJUM

DIGITAL COMMUNICATION AND NETWORKING

37)	238.	47S_MTech_0118	DRY HAND WASHING MACHINE USING FOG DISINFECTION • SHARNBASVA UNIVERSITY, KALABURAGI GUIDE (S) : Prof. VANITA KABA AND Prof. LAXMI PATIL STUDENT (S) : Ms. PRATIKSHA MANE

ELECTRICAL AND ELECTRONICS ENGINEERING

38)	239.	47S_BE_3819	MYOELECTRIC TRANSRADIAL PROSTHETIC ARM FOR UPPER LIMB DISARTICULATION TO SUPPORT DISABLED REHABILITATION • A.T.M.E. COLLEGE OF ENGINEERING, MYSURU GUIDE (S) : Dr. PARTHASARATHY L. AND Prof. SHREESHAYANA R. STUDENT (S) : Mr. KARTHIK R., Mr. AKILESH P. AND Ms. LAVANYA G. K.

ELECTRONICS AND COMMUNICATION ENGINEERING

39)	268.	47S_BE_3540	AUTONOMOUS ROVER FOR MAPPING AND OBJECT DETECTION • DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU GUIDE (S) : Dr. DINESHA P. STUDENT (S) : Mr. SHAMAS ARMAR, Mr. SHREEJITH KINNAL, Mr. SHREYAS N. SASTRY AND Mr. SHIVA CHAUBEY

40)	276.	47S_BE_3922	SEWAGE PIPE CRAWLING ROBOT • MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOODBIDRI GUIDE (S) : Dr. SRI KRISHNA SHASTRI C. STUDENT (S) : Mr. RANJAN, Mr. NISAR AHMED, Mr. ABHIJITH M. NAIK AND Mr. ADITHYA BHAT
41)	289.	47S_BE_0325	EFFICIENT SPRAYING MACHINE FOR OPTIMISING ARECANUT ORCHARD MANAGEMENT • SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU GUIDE (S) : Mrs. ROOPASHREE STUDENT (S) : Ms. SOUMYA SHREEKANTH BHAT, Mr. BHARATH K., Mr. HARSHITH BEKAL AND Mr. RAVI KIRAN V. K.
42)	290.	47S_BE_0328	SONIC FUSION: ADVANCED HEARING AID WITH A PIEZOELECTRIC TRANSDUCER FOR BONE CONDUCTION • SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU GUIDE (S) : Prof. PRAVEEN KUMAR M. STUDENT (S) : Mr. DHYAN RAI M., Ms. SANJANA K. C. AND Mr. KEERTHAN I. NAIK
43)	292.	47S_BE_1584	ADVANCED IOT AND MACHINE LEARNING SOLUTIONS TO MONITOR UNDERPASS WATER LOGGING • SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU GUIDE (S) : Prof. PRATHIBHA P STUDENT (S) : Ms. AISHWARYA K., Ms. CHANDANA K., Ms. DEEKSHA V. AND Ms. HAFSA TABASSUM

MECHANICAL ENGINEERING

44)	322.	47S_BE_3770	MANUFACTURING OF ECO-FRIENDLY PAINT FROM COW DUNG • B.L.D.E.A'S V.P. DR. P.G.HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA GUIDE (S) : Dr. B. M. ANGADI AND Prof. S. S. CHAPPAR STUDENT (S) : Mr. SURAJ PARAMASHETTI, Mr. MD ADNAN INAMDAR AND Mr. MD SAIF SHAIKH
45)	336.	47S_BE_4791	SMART HYBRID SYSTEM FOR 2-WHEELER VEHICLE • R.N.S. INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE (S) : Mrs. VIRAJA DESHPANDE STUDENT (S) : Mr. DEEPAK S., Mr. CHARAN BETTA B., Mr. DHANRAJ CHAITANYA N. AND Mr. JAYASIMHA D.
46)	338.	47S_BE_1197	CARBONATE BASED CONVERSION COATING ON MG ORTHOPAEDIC IMPLANTS: IN VITRO STATIC AND FLOW DEGRADATION STUDIES • RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU GUIDE (S) : Dr. PRAKRATHI S. STUDENT (S) : Mr. K. MANJUNATH, Mr. CHANDAN KUMAR KATTE M., Mr. VIVEK MURTHY AND Mr. HARSHA VARDHAN B.

ROBOTICS AND AUTOMATION

47)	349.	47S_BE_4528	DESIGN AND DEVELOPMENT OF LOW-COST HEALTH CARE MONITORING ROBOT FOR HEALTH CENTERS IN RURAL AREAS • CHRIST DEEMED TO BE UNIVERSITY, KENGERI CAMPUS, BENGALURU GUIDE (S) : Dr. AMRUTA ROUT STUDENT (S) : Mr. SRI VARDHAN RAJ, Mr. ATHULURI LOHITH NAIDU, Mr. DUGGIMPUDI HEMANTH REDDY AND Mr. BHAVESH REDDY PAGIREDDY

ZOOLOGY

48)	354.	47S_MSC_0014	EVALUATION OF REPRODUCTIVE TOXICITY ASSOCIATED WITH FIPRONIL EXPOSED FEMALE WISTER RATS • SHARNBASVA UNIVERSITY, KALABURAGI GUIDE (S) : Mr. VISHWAJIT BASAVARAJ DAREKAR AND Dr. BASAWARAJESHAWRI INDUR STUDENT (S) : Ms. SADIKA SUMERA, Mr. NAVEENKUMAR MALLAPPA SINDAGI, Mr. SAMEER PANAPAROSH AND Ms. TANUJA HIROLE

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Annexure III

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru - 560012

STUDENT PROJECT PROGRAMME

Institutions Recognized with the "Best Performing College of the Year Award"

SERIES of SPP	COLLEGE NAME
47th SERIES: 2023-24	DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU
46th SERIES: 2022-23	R.V. COLLEGE OF ENGINEERING, BENGALURU
45th SERIES: 2021-22	SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU
44th SERIES: 2020-21	B.L.D.E.A'S VACHANA PITAMAHA DR. P. G. HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA
43rd SERIES: 2019-20	MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOODABIDRE
42nd SERIES: 2018-19	K.L.S. GOGTE INSTITUTE OF TECHNOLOGY, BELAGAAVI
41st SERIES: 2017-18	K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKKODI
40th SERIES: 2016-17	ST. JOSEPH ENGINEERING COLLEGE, VAMANJOOR, MANGALURU
39th SERIES: 2015-16	VSM INSTITUTE OF TECHNOLOGY, NIPANI, BELAGAVI
38th SERIES: 2014-15	NMAM INSTITUTE OF TECHNOLOGY, NITTE, KARKALA
37th SERIES: 2013-14	DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU
36th SERIES: 2012-13	B. V. BHOOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBBALLI
35th SERIES: 2011-12	SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU
34th SERIES: 2010-11	VIDYA VARDHAKA COLLEGE OF ENGINEERING, MYSURU
33rd SERIES: 2009-10	PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPET, BALLARI
32nd SERIES: 2008-09	NMAM INSTITUTE OF TECHNOLOGY, NITTE
31st SERIES: 2007-08	P.A. COLLEGE OF ENGINEERING, MANGALURU
30th SERIES: 2006-07	NMAM INSTITUTE OF TECHNOLOGY, NITTE
29th SERIES: 2005-06	BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
28th SERIES: 2004-05	SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERIG, MYSURU
27th SERIES: 2003-04	NMAM INSTITUTE OF TECHNOLOGY, NITTE
26th SERIES: 2002-03	BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
25th SERIES: 2001-02	B.V.B. COLLEGE OF ENGINEERING, HUBBALLI

Annexure IV

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru - 560012

CHRONOLOGY OF SPP SEMINAR (Presently Poster Presentation) AND EXHIBITION

SPP Series	College and Place	Year	No. of Projects Sanctioned	No. of S/E Projects
1st	Karnataka State Council for Science and Technology, Bengaluru	1977-78	54	30
2nd	Malnad College of Engineering, Hassan	1978-79	106	37
3rd	Sri Jayachamarajendra College of Engineering & NIE., Mysuru	1979-80	109	42
4th	Karnataka Regional Engineering College, Surathkal	1980-81	162	40
5th	HKES Pujya Doddappa Appa College of Engineering, Kalaburagi	1981-82	98	32
6th	BVB College of Engineering, Hubballi	1982-83	115	35
7th	Bapuji Institute of Engineering & Technology, Davanagere	1983-84	129	28
8th	KLES College of Engineering & Technology, Belagaavi	1984-85	132	38
9th	PES College of Engineering, Mandya	1985-86	109	56
10th	Rashtriya Vidyalaya College of Engineering, Bengaluru	1986-87	142	52
11th	Siddaganga Institute of Technology, Tumakuru	1987-88	147	36
12th	Sri Jayachamarajendra College of Engineering, Mysuru	1988-89	109	33
13th	Jawaharlal Nehru National College of Engineering, Shivamogga	1989-90	112	38
14th	Sri Dharmasthala Manjunatheshwara College of Engineering, Dharwad	1990-91	130	46
15th	KLES College of Engineering & Technology, Belagaavi	1991-92	189	54
16th	Kalpatharu Institute of Technology, Tiptur	1992-93	143	72
17th	Ghousia College of Engineering, Ramanagara	1993-94	193	80
18th	Sri Siddartha Institute of Technology, Tumakuru	1994-95	147	63
19th	National Institute of Engineering, Mysuru	1995-96	209	79
20th	Sir M. Visvesvaraya Institute of Technology, Bengaluru	1996-97	193	70
21st	Manipal Institute of Technology, Manipal	1997-98	253	125
22nd	B.M. Srinivasaiah College of Engineering, Bengaluru	1998-99	223	87
23rd	Kurunje Venkataramana Gowda College of Engineering, Sullia	1999-2000	201	104
24th	HKES' SLN College of Engineering, Raichur	2000-01	194	112

SPP Series	College and Place	Year	No. of Projects Sanctioned	No. of S/E Projects
25th	Siddaganga Institute of Technology, Tumakuru	2001-02	145	82
26th	Vijayanagar Engineering College, Ballari	2002-03	144	69
27th	Gogte Institute of Technology, Belagaavi	2003-04	205	126
28th	Basaveshwar College of Engineering, Bagalkot	2004-05	231	121
29th	Poojya Doddappa Appa College of Engineering, Kalaburagi	2005-06	275	132
30th	KLE Society's College of Engineering and Technology, Belagaavi	2006-07	281	147
31st	Adichunchanagiri Institute of Technology, Chikmagalur	2007-08	289	150
32nd	National Institute of Technology Karnataka, Surathkal, Mangaluru	2008-09	256	146
33rd	Shridevi Institute of Engineering and Technology, Tumakuru	2009-10	291	152
34th	PES Institute of Technology and Management, Shivamogga	2010-11	294	166
35th	Shree Dharmasthala Manjunateshwara Institute of Technology, Ujire	2011-12	307	176
36th	Angadi Institute of Technology and Management, Belagaavi	2012-13	409	207
37th	B.V. Bhoomaraddi College of Engineering and Technology, Hubballi	2013-14	420	255
38th	Sahyadri College of Engineering and Management, Mangaluru	2014-15	509	253
39th	BLDEA's V.P. Dr. P.G. Halakatti College of Engineering and Technology, Vijayapura	2015-16	636	287
40th	NMAM Institute of Technology, Nitte, Karkala, Udupi District	2016-17	627	332
41st	Bapuji Institute of Engineering and Technology, Davangere	2017-18	685	404
42nd	KLE Dr. M. S. Sheshgiri College of Engineering and Technology, Belagaavi	2018-19	798	415
43rd	Karnataka State Council for Science and Technology (Online)	2019-20	999	931
44th	Karnataka State Council for Science and Technology (Online)	2020-21	1190	1129
45th	Visvesvaraya Technological University (VTU), Belagavi	2021-22	1230	332
46th	Alva’s Institute of Engineering and Technology, Moodubidire	2022-23	1494	443
47th	Sharnbasva University, Kalaburagi	2023-24	1530	354
	Total Projects		**16844**	**8198**

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SPP














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