

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY (KSCST), BANGALORE  
and  
PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT (PESITM), SHIMOGA

34<sup>th</sup> Series - Seminar and Exhibition of Student Project Programme  
19<sup>h</sup> and 20<sup>th</sup> August 2011

zDate : 19th August 2011

Time: 10.00 AM

Venue : Main Seminar Hall, PESITM, Shimoga

**INAUGURAL FUNCTION**

<b>09.00 AM – 10.00 AM</b>	<b>Registration</b>
<b>10.00 AM – 10.05 AM</b>	<b>Invocation</b>
<b>10.05 AM – 10.15 AM</b>	<b>Welcome Address</b> Dr. Vishwanath P. Baligar Principal, PESITM, Shimoga
<b>10.15 AM – 10.25 AM</b>	<b>Introductory Remarks</b> Prof. M. S. Mohan Kumar Secretary, KSCST, Bangalore
<b>10.25 AM – 10.45 AM</b>	<b>Lighting the Lamp and Inaugural Address</b> Dr. M. R. Doreswamy Chairman, PES Group of Institutions
<b>10.45 AM – 11.00 AM</b>	<b>Address by Guest of Honour &amp; Release of SPP Compendium</b> Prof. B. N. Raghunandan Divisional Chairman, Earth and Environmental Sciences Indian Institute of Science, Bangalore
<b>11.00 AM – 11.10 AM</b>	<b>Address by Guest of Honour</b> Smt. S. Y. Arunadevi Joint Secretary, PES Trust (R)
<b>11.10 AM – 11.30 AM</b>	<b>Presidential Remarks</b> Sri B. Y. Vijayendra Director, PES Trust (R)
<b>11.30 AM – 11.40 AM</b>	<b>Vote of Thanks</b> Dr. S. G. Sreekanteswara Swamy Fellow, KSCST, Bangalore
<b>12.00 Noon – 01.15 PM</b>	<b>Lecture - 1</b>
<b>01.15 PM - 02.15 PM</b>	<b>Lunch</b>
<b>02.30 PM – 05.30 PM</b>	<b>Students' Seminar and Projects Exhibition</b>

# **TECHNICAL SESSIONS**

**Friday, 19<sup>th</sup> AUGUST , 2011**

**12.00 Noon – 1.15 PM LECTURE - 1**

**Topic : Who is an Engineer?**

- By Dr. Swami Manohar

Managing Director

LimberLink Technologies Pvt. Ltd., Bangalore

**Venue : Main Seminar Hall, PESITM, Shimoga**

## **SEMINAR**

**SESSION 1:**

**Friday, AUGUST 19, 2011**

**Venue : HALL NO. 1**

**(ECE - 101, PESITM, SHIMOGA)**

**Time : 02.30 PM – 05.30 PM**

**Chairman : Dr. G. V. Mahesh**

Principal Research Scientist

CEDT, Indian Institute of Science

## **BIOTECHNOLOGY**

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
1.	34S0051	STUDY ON GROWTH CHARACTERISTICS OF PAEUDOMONAS AND BACILLUS SPECIES FOR THE ISOLATION OF MEDICALLY IMPORTANT ENZYMES - BALLARI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELLARY
2.	34S0005	PRODUCTION OF ETHANOL FROM BEETROOTS - BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
3.	34S0241	SOLID STATE FERMENTATION OF AGRO-WASTE FOR INDUSTRIAL LIPASE PRODUCTION - BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT
4.	34S0036	COST EFFECTIVE PRODUCTION OF CELLULASE FROM A NOVEL MICROORGANISM - BV BHOOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI
5.	34S0015	CHARACTERIZATION AND EVALUATION OF DOXORUBICIN TAGGED MAGNETIC NANOPARTICLES FOR HYPERTHERMIA - MS RAMAIAH INSTITUTE OF TECHNOLOGY, BANGALORE

6.	34S0155	REDUCTION OF FREE FATTY ACIDS IN OIL USING SOLID CATALYSTS UNDER MICROWAVE IRRADIATION - NMAM INSTITUTE OF TECHNOLOGY, NITTE
7.	34S0934	AN ALTERNATIVE, INEXPENSIVE STRATEGY FOR BETTER QUALITY YIELD OF SILK USING PARTHENIUM HYSTEROPHORUS - PES INSTITUTE OF TECHNOLOGY, BANGALORE
8.	34S0131	ENCHANCEMENT OF DIOSGENIN FROM STEROIDAL SAPOGENIN IN DISCOREA HISPIDA DENNST BY TRICHODERMA SPS THROUGH BIOTRANSFORMATION - SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR
9.	34S0132	EVALUATION OF TRIBAL MEDICINE AND ACTIVE PRINCIPLE OF GLYCOSMIS MAURITIANA (LAM) TANAKA FOR ANTIOXIDANT AND ANTICANCER ACTIVITY AGAINST PC-3 CELL LINES - SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR
10.	34S0339	METALLOPROTEINASE INHIBITOR AS BIO-DRUG FOR RHEUMATOID ARTHRITIS - SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

## SESSION 2:

**Friday, AUGUST 19, 2011**

**Venue : HALL NO. 2  
(ECE - 102, PESITM, SHIMOGA)**

**Time : 02.30 PM – 05.30 PM**

**Chairman : Dr. K. S. Nanjunda Rao  
Principal Research Scientist  
Department of Civil Engineering, Indian Institute of Science**

## CIVIL ENGINEERING

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
18.	34S0621	MAPPING OF DO ALONG VRISHABHAVATHI RIVER USING REMOTE SENSING & GIS - BMS COLLEGE OF ENGINEERING, BANGALORE
19.	34S1007	SOME STUDIES ON THE DEVELOPMENT OF PERVIOUS CONCRETE - BMS COLLEGE OF ENGINEERING, BANGALORE
20.	34S0961	NON CONVENTIONAL ENERGY FROM FOOD WASTE - DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE
21.	34S0962	EFFECT OF PRISM HEIGHT ON MASONARY STRENGTH - DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE
22.	34S0968	A STUDY ON UTILIZATION OF USED GREEN SAND AS FINE AGGREGATE IN CEMENT CONCRETE - DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE
23.	34S0230	CHARACTERISATION OF POND ASH FROM RTPS AND ASSESSMENT OF ITS PROPERTIES FOR SUSTAINABLE CONCRETE WHEN USED AS FINE AGGREGATE - GLOBAL ACADEMY OF TECHNOLOGY, BANGALORE

24.	34S0629	EFFECT ON HIGH RISE STRUCTURE DUE TO ADJACENT VERTICAL OPENING - JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIMOGA
25.	34S0844	MANEGEMENT OF BIO MEDICAL WASTE IN BELGAUM DISTRICT- A CASE STUDY - KLE SOCIETY'S COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM
26.	34S0917	MEASUREMENT AND CONTROL OF FLOW THROUGH BOX CULVERT AS CANAL OUTLET - SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR
27.	34S1000	STUDY OF THE STATUS OF DRINKING WATER IN DODDERI GRAM PANCHAYAT OF CHALLEKERE TALUK, CHITRADURGA DISTRICT USING GEOSPATIAL TECHNOLOGY - SJM INSTITUTE OF TECHNOLOGY, CHITRADURGA
28.	34S0564	STABILIZATION OF BLACK COTTON SOIL BY USING BRIQUETTE ASH MADE OF BLENDED GROUNDNUT SHELL HUSK, COFFEE HUSK & RICE HUSK - SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR
29.	34S0842	FEASIBILITY STUDIES ON TREATMENT OF MUNICIPAL SOLID WASTE LANDFILL LEACHATE USING DUAL MEDIA UP FLOW REACTORS - VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR
30.	34S0875	ANALYTICAL AND EXPERIMENTAL STUDIES ON THE LOAD CARRYING CAPACITY OF LATERITE ARCHES IN FOUNDATIONS - VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR

### SESSION 3:

**Friday, AUGUST 19, 2011**

**Venue : HALL NO. 3  
(ECE - 103, PESITM, SHIMOGA)**

**Time : 02.30 PM – 05.30 PM**

**Chairman : Dr. T. V. Prabhakar  
Principal Research Scientist, CEDT, Indian Institute of Science**

### COMPUTER SCIENCE AND ENGINEERING

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
31.	34S0806	ASSESSMENT TOOL FOR OUTCOME BASED EDUCATION - KLS GOGTE INSTITUTE OF TECNOLOGY, UDYAMBAG, BELGAUM

### INFORMATION SCIENCE AND ENGINEERING

48.	34S0322	IMAGE FEATURES EXTRACTION OF TOBACCO LEAVES - BGS INSTITUTE OF TECHNOLOGY, MANDYA
49.	34S0527	CHARMY: A FRAMEWORK FOR DESIGNING AND VERIFYING ARCHITECTURAL SPECIFICATIONS - PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPET
50.	34S0662	ONLINE MANAGEMENT SOFTWARE FOR THE AKSHAYA PATRA FOUADATION, DHARWAD - SMT. KAMALA AND SRI.VENKAPPA M. AGADI COLLEGE OF ENGINEERING & TECHNOLOGY, LAXMESHWAR

## **INSTRUMENTATION TECHNOLOGY**

51.	34S0915	WIRELESS INDUSTRIAL HAZARD DETECTION CONTROL AND PROTECTION DEVICE USING EMBEDDED SYSTEM - SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR
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## **TELECOMMUNICATION ENGINEERING**

64.	34S0912	UNMANNED GUN CONTROL MECHANISM - SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR
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### **SESSION 4:**

**Friday, AUGUST 19, 2011**

**Venue : HALL NO. 4  
(CSE - 201, PESITM, SHIMOGA)**

**Time : 02.30 PM – 05.30 PM**

**Chairman : Dr. V. P. S. Naidu  
Scientist, National Aerospace Laboratories**

## **ELECTRICAL AND ELECTRONICS ENGINEERING**

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
32.	34S0446	STUDY OF ENERGY CONSERVATION OF AIT CAMPUS BY ENERGY AUDIT AND IMPLEMENTATION OF RETROFITS - ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKMAGALUR
33.	34S0380	MINIMIZATION OF ELECTRICAL ENERGY LOSS IN DISTRIBUTION FEEDERS BY ENERGY AUDIT AND CONSERVATIVE MEASURES - A CASE STUDY - HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI, BELGAUM
34.	34S0646	DIGITAL PWM CONTROLLER FOR A LOW-POWER SWITCHING CONVERTER - SDM INSTITUTE OF TECHNOLOGY, UJIRE, DHARMASTALA

## **ELECTRONICS AND COMMUNICATION**

35.	34S0471	DESIGN AND ANALOG VLSI IMPLEMENTATION OF NEURAL NETWORK - BLDEA'S VACHANA PITAMAHA DR. P. G. HALAKATTI COLLEGE OF ENGG., & TECHNOLOGY, BIJAPUR
36.	34S0048	FINGERPRINT BASED ELECTRONIC VOTING MACHINE - CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, GUBBI, TUMKUR
37.	34S0280	SECURITY SERVEILLANCE USING MOTION DETECTION - KLE SOCIETY'S COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM
38.	34S0827	SRAM WITH MEMORY REDUNDANCY - PA COLLEGE OF ENGINEERING, MANGALORE
39.	34S0831	AUTOMATIC NAVIGATION SYSTEM USING ROAD LANE DETECTION - PA COLLEGE OF ENGINEERING, MANGALORE

40.	34S0109	DYNAMIC DOMINO LOGIC CIRCUITS DESIGN FOR LOW POWER VLSI DESIGN - PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIMOGA
41.	34S0400	OCEOVISIO - SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALORE
42.	34S0687	ADVANCED PROTECTIVE HEADGEAR ALONG WITH INTELLIGENT BIKE - SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR
43.	34S0867	3-PHASE POWER INVERSION AND CONTROLE FOR IRRIGATION MOTORS - VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR

## SESSION 5:

**Friday, AUGUST 19, 2011**

**Venue : HALL NO. 5  
(CSE - 202, PESITM, SHIMOGA)**

**Time : 02.30 PM – 05.30 PM**

**Chairman : Dr K. Venkateswarlu  
Scientist, National Aerospace Laboratories**

## INDUSTRIAL AND PRODUCTION ENGINEERING

47.	34S0706	MICRO MACHINING OF NON CONDUCTING MATERIALS USING ELECTRO-CHEMICAL DISCHARGE MACHINING - SJM INSTITUTE OF TECHNOLOGY, CHITRADURGA
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## MECHANICAL ENGINEERING

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
52.	34S0466	INSTRUMENTATION FOR CI ENGINE TEST RIG AND PERFORMANCE EVALUATION WITH AND WITH-OUT PREHEATING DIESEL (WASTE HEAT RECOVERY OF AN IC ENGINE USING HEAT EXCHANGER) - ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKMAGALUR
53.	34S0482	EXPERIMENTAL ANALYSIS OF COOLING PERFORMANCE OF MICROPROCESSOR CHIP USING SYNTHETIC JET - BLDEA'S VACHANA PITAMAHA DR. P. G. HALAKATTI COLLEGE OF ENGG., & TECHNOLOGY, BIJAPUR
54.	34S1006	ALTERNATE USES OF ARECA NUT HUSK IN ENGINEERING APPLICATIONS - GLOBAL ACADEMY OF TECHNOLOGY, BANGALORE
55.	34S0355	EXPERIMENTAL STUDY OF EFFECTS OF TITANIUM OXIDE AS A TBC ON 4-STROKE CI ENGINE PERFORMANCE - KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR
56.	34S0382	A SIMPLE METHOD FOR FASTER BIODIESEL PRODUCTION - NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, DEVANHALLI TO, BANGALORE

57.	34S0835	INVESTIGATIONS ON HYDRAULIC DISPLACEMENT AMPLIFICATION OF PIEZOACTUATOR FOR MACRO/MICRO POSITIONING APPLICATIONS - NMAM INSTITUTE OF TECHNOLOGY, NITTE
58.	34S0577	REDUCTION OF EMISSION USING BI-METALIC PISTON IN CI ENGINES - RAO BAHADUR Y. MAHABALESWARAPPA ENGINEERING COLLEGE, BELLARY
59.	34S0008	DEVELOPMENT OF HOT CORROSION RESISTANT HIGH VELOCITY OXY-FUEL CERMET COATINGS ON GAS TURBINE BLADE - REVA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BANGALORE
60.	34S0029	PRODUCTION OF BIODIESEL FROM LOW GRADE OIL THROUGH TWO STAGE TRANSESTERIFICATION PROCESS - SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BANGALORE
61.	34S0092	SINTERING CHARACTERISTICS OF NANO ALUMINA PREPARED BY SOL-GEL METHOD - SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BANGALORE
62.	34S0677	SCORING & GALLING ON SHEET METAL FORMED PANELS - SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR
63.	34S0680	EFFECT OF SURFACE TREATMENT ON THE MECHANICAL PROPERTIES OF NATURAL FIBER REINFORCED / EPOXY - HYBRID BIO-COMPOSITIES - SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR

## SESSION 6:

**Friday, AUGUST 19, 2011**

**Venue : HALL NO. 6  
(CSE - 203, PESITM, SHIMOGA)**

**Time : 02.30 PM – 05.30 PM**

**Chairman : Dr. J. R. Mudakavi  
Principal Research Scientist  
Department of Chemical Engineering, Indian Institute of Science**

## CHEMICAL ENGINEERING

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
11.	34S0605	STUDIES ON USAGE OF ION EXCHANGE PROCESS FOR RECOVERY OF COPPER FROM WIRE DRAWING INDUSTRY EFFLUENT AND REDUCTION OF IRON CONCENTRATION IN BRONZE BATH - BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
12.	34S0028	CHEMICAL PURIFICATION AND APPLICATION OF CARBON NANOTUBES IN THE PREPARATION OF NANO SHIELD - DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE
13.	34S0143	A COMPARATIVE STUDY OF MODERN ASSISTED METHODS TO ENHANCE CHEMICAL REACTION, MASS TRANSFER OPERATION TO HAVE BETTER GREEN SUSTAINABLE ENVIRONMENT - KLE SOCIETY'S COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM

14.	34S0338	ENVIRONMENTAL EFFECTS OF PETROLEUM WASTE PRODUCT ON CONCRETE - KLE SOCIETY'S COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM
15.	34S0035	BIOLOGICAL DENITRIFICATION OF GROUND WATER USING SAW DUST AS CARBON SOURCE - MS RAMAIAH INSTITUTE OF TECHNOLOGY, BANGALORE
16.	34S0944	PRODUCTION OF BIO-ETHANOL FROM LIGNO-CELLULOSIC MATERIAL - SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD
17.	34S0920	EXTRACTION OF PECTIN FROM ORANGE PEELS BY ACID HYDROLYSIS AND THERMOMECHANICAL PROCESSING METHOD - SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

## **ENVIRONMENTAL ENGINEERING**

44.	34S0027	BIOGAS GENERATION FROM WASTE FRUIT PEELS BY THE APPLICATION OF NITROGEN PURGING - VIDYA VARDHAKA COLLEGE OF ENGINEERING, MYSORE
45.	34S0221	PERFORMANCE EVALUATION OF CHITOSAN AND ZEOLITE AS FILTER MEDIA - VIDYA VARDHAKA COLLEGE OF ENGINEERING, MYSORE
46.	34S0222	APPLICATION OF METAL OXIDE NANOMATERIALS FOR THE TREATMENT OF INDUSTRIAL EFFLUENTS - VIDYA VARDHAKA COLLEGE OF ENGINEERING, MYSORE

**06.30 PM – 08.00 PM Cultural Programme by students of PESIT&M**

**NOTE: Projects selected for Exhibition: Students need to setup their exhibits / working models well in time and be ready to demonstrate at the Exhibition halls allocated each of the team. The panel of judges will evaluate these projects on 19<sup>th</sup> August 2011 and 20<sup>th</sup> August 2011.**

**Saturday, 20th AUGUST, 2011**

## **TECHNICAL SESSIONS**

**10.00 AM – 11.00 AM LECTURE – 2**

**Topic : "Obligations of a "Gifted" person"**

- By Dr. S. S. Mahant Shetti, CEO, KARMIC, Manipal

**Venue : Main Seminar Hall, PESITM, Shimoga**

**11.00 AM – 3.00 PM Visit to Exhibition and Evaluation of Exhibition Projects**

**01.00 PM – 02.00 PM Lunch Break**

**03.30 PM – 05.00 PM VALEDICTORY FUNCTION**

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY (KSCST), BANGALORE  
and  
PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT (PESITM), SHIMOGA

**Seminar and Exhibition of Student Project Programme – 34<sup>th</sup> Series  
19<sup>th</sup> and 20<sup>th</sup> August 2011**

**NOTE:** Projects selected for Exhibition: Students need to setup their exhibits / working models well in time and be ready to demonstrate at the Exhibition halls allocated each of the team. The panel of judges will evaluate these projects on 19<sup>th</sup> and 20<sup>th</sup> August 2011.

## **EXHIBITION PROJECTS**

### **HALL NO. 1 (Venue : ECE LAB 1)**

**JURIES :** Dr. U. J. Shenoy, Principal Research Scientist, Dept., of Electrical Engg., IISc.

### **BIOMEDICAL ENGINEERING**

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
65.	34S0615	CORRECTION OF HEMIPLEGIC DROP FOOT BY USING VERSATILE DROP FOOT STIMULATOR - BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
66.	34S0616	PHOTOPLETHYSMOGRAPH FOR CARDIOVASCULAR MEASUREMENT AND ASSESMENT - BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
67.	34S0178	LOW COST EKG PULSOMETER - KLE SOCIETY'S COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM
68.	34S0180	EASE - CAPSENSE BLOOD GLUCOSE METER - KLE SOCIETY'S COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM

### **ELECTRICAL AND ELECTRONICS**

80.	34S0130	AUTOMATED CONTROL OF RICE MILL DRIER SECTION USING PLC - SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR
81.	34S0713	HYBRID POWER GENERATION OF SOLAR AND WIND CONTROLLED BY MICRO CONTOLLER - SJM INSTITUTE OF TECHNOLOGY, CHITRADURGA
82.	34S0997	INTELLIGENT LIGHTING SYSTEM CUM TRACKCUT IDENTIFIER AT RAILWAY STATION USING RF ID - STJ INSTITUTE OF TECHNOLOGY, RANEBENNUR, HAVERI

## HALL NO. 2 (Venue : ECE LAB 2)

**JURIES :** Dr. S. Ramagopal, Principal Research Scientist, Dept., of Instrumentation, IISc.  
Dr. B. Subba Reddy, Principal Research Scientist, Dept., of Electrical Engg., IISc.  
Dr. Shiva Subba Rao, Scientist, National Aerospace Laboratories  
Dr. S. V. Gopalaiah, Principal Research Scientist, Dept., of ECE, IISc.

## ELECTRONICS AND COMMUNICATION

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
83.	34S0887	VOICE ACTIVATED WHEEL CHAIR FOR DISABLED - ACHARYA INSTITUTE OF TECHNOLOGY, BANGALORE
84.	34S0362	INTELLIGENT AUDITORIUM AND THEATER STAGE CONTROL - ACHARYA POLYTECHNIC, BANGALORE
85.	34S0817	CONTROLE OF HOME APPLIANCES USING EMBEDDED WEB SERVER - ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKMAGALUR
86.	34S0614	ROTATING LED MESSAGE DISPLAY SYSTEM - BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
87.	34S0792	MOBILE TELEMEDICINE - BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
88.	34S0469	ELECTRONIC TALKING STICK FOR VISUALLY CHALLENGED - BLDEA'S VACHANA PITAMAHA DR. P. G. HALAKATTI COLLEGE OF ENGG., & TECHNOLOGY, BIJAPUR
89.	34S0786	VIDEO MONITORING SYSTEM IN FLOOD AFFECTED AREAS USING AN UNMANNED AERIAL VEHICAL - BV BHOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI
90.	34S0789	HEAD MOVEMENT BASED VOICE ACTIVATED DEVICE FOR PHYSICALLY CHALLENGED PEOPLE - BV BHOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI
91.	34S0049	AUTOMATED SOIL TESTING SYSTEM FOR AGRICULTURE - CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, GUBBI, TUMKUR
92.	34S0090	SMART PUBLICITE (A MOBILE TOURIST GUIDE AND LOCATION BASED ADVERTISING SYSTEM) - GM INSTITUTE OF TECHNOLOGY, DAVANGERE
93.	34S0108	ARM BASED PEN DRIVE TO PEN DRIVE DATA IMAGING - GM INSTITUTE OF TECHNOLOGY, DAVANGERE
94.	34S0142	LEVEL MONITORING AND LIQUID FLOW CONTROL FOR DRUG MANUFACTURING PLANT - GM INSTITUTE OF TECHNOLOGY, DAVANGERE
95.	34S0318	BABY INCUBATOR - GOVERNMENT ENGINEERING COLLEGE, HASSAN
96.	34S0881	AUTOMIZATION OF PUBLIC UTILITY SYSTEM USING GSM - KLS'S VISHWANATHRAO DESHPANDE RURAL INSTITUTE OF TECHNOLOGY, HALIYAL, UTTARA KANNADA
97.	34S0033	HUMAN MACHINE INTERFACE - KNS INSTITUTE OF TECHNOLOGY, BANGALORE

98.	34S0331	FULLY AUTOMATED PESTICIDE SPRAYER FOR ARECANUT TREES USING IMAGE PROCESSING AND MICROCONTROLLER - KVG COLLEGE OF ENGINEERING, SULLIA
99.	34S0104	U-RADIO, A TCP/IP BASED RADIO FOR DATA BROADCASTING - MALNAD COLLEGE OF ENGINEERING, HASSAN
100.	34S0849	VOICE RECOGNISATION AND ACCELEROMETER BASED WHEELCHAIR - MARATHA MANDAL'S ENGINEERING COLLEGE, BELGAUM
101.	34S0851	PROGRAMMABLE AGRICULTURAL ROBOT - MARATHA MANDAL'S ENGINEERING COLLEGE, BELGAUM
102.	34S0852	ROBOTIC SOLDIER - MARATHA MANDAL'S ENGINEERING COLLEGE, BELGAUM
103.	34S0933	DRISHTI - ELECTRONIC AID FOR BLIND - MS RAMAIAH INSTITUTE OF TECHNOLOGY, BANGALORE
104.	34S0823	AUTONOMOUS SOLAR TRACKER - PA COLLEGE OF ENGINEERING, MANGALORE
105.	34S0824	HANDHELD DEVICE FOR PRESENTATION SOFTWARE - PA COLLEGE OF ENGINEERING, MANGALORE
106.	34S0825	REMOTE NOTICE BOARD USING GSM WITH SMS - PA COLLEGE OF ENGINEERING, MANGALORE
107.	34S0335	NON CONVENTIONAL POWER GENERATION USING MAGNETRON AND WIRELESS TRANSMISSION OF POWER - PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPET
108.	34S0505	POWERLINE VOICE COMMUNICATION AND DEVICE CONTROL - REVA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BANGALORE
109.	34S0508	BATTLEBOT : THE DEFENCE SAFETY SYSTEM - REVA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BANGALORE
110.	34S0399	PSEUDO EYE FOR THE BLIND - SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALORE
111.	34S0189	HUMAN HANDS AND VOICE INTERPRETATION ROBOT WITH NAVIGATION - SAMBHRAM INSTITUTE OF TECHNOLOGY, BANGALORE
112.	34S0190	WATER SPY - A SUBMARINE ROBOT - SAMBHRAM INSTITUTE OF TECHNOLOGY, BANGALORE
113.	34S0930	REAL TIME AUTOMATED MULTI STORIED VEHICLE PARKING WITH ONLINE RESERVATION SYSTEM - SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD
114.	34S0932	TRAIN TRACKING WITH LOCACTION DISPLAY USING GLOBAL POSITIONING SYSTEM (GPS) - SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD
115.	34S0895	WIRELESS INTELLIGENT TRAIN TRACKING AND MANAGEMENT SYSTEM - SHIRDI SAI ENGINEERING COLLEGE, ANEKAL
116.	34S0897	BIO-SPECKLE ASSESSMENT OF BRUISING IN FRUITS - SHIRDI SAI ENGINEERING COLLEGE, ANEKAL
117.	34S0116	AUTOMATIC DAILY WAGE PAYSLIP GENERATION AND JUSTIFICATION FOR COFFEE LABOURERS - SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR
118.	34S0663	MULTI PURPOSE ALIVE RADITATION DENSITY DETECTION SYSTEM IN WARFIELD OR DURING NATURAL CALAMITY - SMT. KAMALA AND SRI.VENKAPPA M. AGADI COLLEGE OF ENGG., & TECH., LAXMESHWAR

119.	34S0328	MULTIPURPOSE TAMPERPROOF SMART ENERGY METER - SRI BHAGAWAN MAHAVEER JAIN COLLEGE OF ENGINEERING, KANAKAPURA, RAMANAGARAM DISTRICT
120.	34S0081	SIXTH SENSE GESTURE RECOGNIZATION SYSTEM (6S-GRS) - SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALORE
121.	34S0084	DEVELOPING AN EFFECTIVE CONTROL AND SEARCH STRATEGY FOR SWARM ROBOT - SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALORE
122.	34S0866	SOLAR ENERGY OPTIMISATION BY PRECISION SUN TRACKING - VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR

### HALL NO. 3 (Venue : ECE LAB 3)

**JURIES : Dr. N. V. Chalapathy Rao, Principal Research Scientist, CEDT, IISc.  
Dr. M. Krishna Kumar, Principal Research Scientist, CEDT, IISc.**

### INDUSTRIAL AND PRODUCTION ENGINEERING

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
123.	34S0243	COMPUTERIZED SYSTEM FOR COUNTING AND WEIGHING OF CEMENT BAGS IN CEMENT INDUSTRIES - BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT
124.	34S0325	VOICE CONTROLLED ELECTRIC WHEEL CHAIR - MALNAD COLLEGE OF ENGINEERING, HASSAN
125.	34S0707	NON CONVENTIONAL CUTTING OF GLASS PLATE USING HOT AIR JET - SJM INSTITUTE OF TECHNOLOGY, CHITRADURGA

### MECHANICAL ENGINEERING

136.	34S0465	GROUND COUPLED CLOSED CYCLE HEAT EXCHANGER COOLING SYSTEM - ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKMAGALUR
137.	34S0233	DESIGN AND DEVELOPMENT OF ROBOT ARM FOR TUBEWELL DISASTER RESCUE SYSTEM - BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT
138.	34S0236	A STUDY ON THE INFLUENCE OF DOUBLE CONVEX LENS PARAMETERS ON SOLAR ENERGY HEATING - BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT
139.	34S0493	BATTERY DRIVEN HAND CART - CANARA ENGINEERING COLLEGE, BANTWAL TQ, DAKSHINA KANNADA
140.	34S0598	SIX LEGGED WALKING ROBOT FOR DISABLED PEOPLE - DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE
141.	34S0737	DESIGN & FABRICATION OF TOMATO SEED EXTRACTOR - GM INSTITUTE OF TECHNOLOGY, DAVANGERE
142.	34S0738	CONVERSION OF ECO-UNFRIENDLY PLASTICS INTO FUEL - GM INSTITUTE OF TECHNOLOGY, DAVANGERE
143.	34S0207	PORTABLE GROUNDNUT STRIPPER - GOVERNMENT ENGINEERING COLLEGE, HASSAN
144.	34S0948	ZERO EMISION MACHINE -ZEM - HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI, BELGAUM

145.	34S0627	FOOT OPERATED SUGARCANE SEED SCOOPING MACHINE - JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIMOGA
146.	34S0639	DEVELOPMENT OF DUAL PURPOSE LOW VELOCITY IMPACT TEST RIG - JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIMOGA
147.	34S0640	DESIGN AND DEVELOPMENT OF SUN BIKE - JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIMOGA
148.	34S0862	SUNFLOWER SEED AND OIL EXTRACTOR - MARATHA MANDAL'S ENGINEERING COLLEGE, BELGAUM
149.	34S0624	DEVELOPMENT AND FABRICATION OF DIESEL HYBRID ENGINE - NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BANGALORE
150.	34S1011	DESIGN AND FABRICATION OF DUAL FUEL SIX STROKE DIESEL ENGINES - NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BANGALORE
151.	34S1012	KINETIC ENERGY RECOVERY SYSTEM FOR TWO WHEELERS - NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BANGALORE
152.	34S0813	BREAD PACKING MACHINE - NMAM INSTITUTE OF TECHNOLOGY, NITTE
153.	34S0532	AUTOMATION OF TWO WHEELER FACILITIES WITH GSM SECURITY SYSTEM - PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPET
154.	34S0924	THEORETICAL AND EXPERIMENTAL ANALYSIS OF INTEGRATED SOLAR COOKER AND DRYER - SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD
155.	34S0144	DESIGN AND DEVELOPMENT OF BIO-DIESEL PLANT - SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BANGALORE
156.	34S0709	DESIGN & FABRICATION OF WHEEL DRIVEN SPRAYER - SJM INSTITUTE OF TECHNOLOGY, CHITRADURGA
157.	34S0733	HYBRID POWER GENERATION UNDER LOCAL CLIMATIC CONDITIONS FOR ENERGY INDEPENDENCE - SJM INSTITUTE OF TECHNOLOGY, CHITRADURGA
158.	34S0676	MANUALLY OPERATED ARECANUT CUTTING MACHINE - SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR
159.	34S0165	MULTIPLE DOSA MAKING MACHINE - SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALORE
160.	34S0982	DESIGN AND FABRICATION OF MULTI PURPOSE VARIABLE TOPOLOGY PRESS MECHANISM - STJ INSTITUTE OF TECHNOLOGY, RANEBENNUR, HAVERI
161.	34S0984	DESIGN AND FABRICATION OF MULTI PURPOSE BICYCLE FOR AGRICULTURE BASED APPLICATION - STJ INSTITUTE OF TECHNOLOGY, RANEBENNUR, HAVERI
162.	34S0872	DESIGN AND FABRICATION OF HYDRAULICALLY OPERATED COCONUT DEHUSKING MACHINE - VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR

## TEXTILE TECHNOLOGY

166.	34S0617	DESIGN AND DEVELOPMENT OF CONTINUOUS WET TRANSFER PRINTING MACHINE FOR PRINTING NATURAL FIBRE FABRICS USING ECO-FRIENDLY NATURAL DYES - BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE
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## HALL NO. 4 (Venue : CSE LAB 1)

**JURY : Dr. N. C. Shivaprakash, Principal Research Scientist, Dept., of Instrumentation, IISc.  
Dr. Bhakthavatsalam, Principal Research Scientist, SERC, IISc.**

### COMPUTER SCIENCE AND ENGINEERING

72.	34S0599	AUTOMATIC LOCALIZATION OF BACKWARD COLLISION OF VEHICLES USING A CAMERA - DAYANANDA SAGAR COLLEGE OF ENGINEERING, BANGALORE
73.	34S0419	DOCUMENT TEXT EXTRACTION FROM DOCUMENT IMAGES - NMAM INSTITUTE OF TECHNOLOGY, NITTE
74.	34S0422	WIRELESS HAND MOUSE - NMAM INSTITUTE OF TECHNOLOGY, NITTE
75.	34S1008	AN APPROACH TO SLAM FOR INDOOR ROBOTS - PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIMOGA
76.	34S1013	ATM CODEX ACCESSING ATM REMOTELY - PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIMOGA
77.	34S0548	FARMER'S BUDDY : A REAL TIME WIRELESS PROJECT FOR FARMERS - PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPET
78.	34S0223	VIDEO SURVEILLANCE FOR ATMS - VIDYA VARDHAKA COLLEGE OF ENGINEERING, MYSORE
79.	34S0868	LAPTOP TRAKER - VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR

### INFORMATION SCIENCE AND ENGINEERING

126.	34S0353	AN AUTOMATIC MOBILE COMPUTING SYSTEM FOR CARDIAC PARAMETER MONITORING WITH ALERT MECHANISM - BV BHOOMARADDI COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBLI
127.	34S0329	FAST IP REROUTING ENGINE - MAHARAJA INSTITUTE OF TECHNOLOGY, MYSORE
128.	34S0529	CREDIT CARD FRAUD DETECTION USING HMM - PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPET
129.	34S0215	MOBILE WALLET - VIDYA VARDHAKA COLLEGE OF ENGINEERING, MYSORE

## HALL NO. 5 (Venue : CSE LAB 2)

**JURIES : Dr. U. J. Shenoy, Principal Research Scientist, Dept., of Electrical Engg., IISc.  
Dr. V.P.S. Naidu, Scientist, National Aerospace Laboratories**

### INSTRUMENTATION TECHNOLOGY

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
130.	34S0019	PREPAID ELECTRICITY BILLING SYSTEM USING EMBEDDED TECHNOLOGY - JSS ACADEMY OF TECHNICAL EDUCATION, BANGALORE
131.	34S0020	SMART IRRIGATION - MS RAMAIAH INSTITUTE OF TECHNOLOGY, BANGALORE

132.	34S0904	AUTOMET (AUTOMATED DRIVERLESS METRO TRAIN ) - MS RAMAIAH INSTITUTE OF TECHNOLOGY, BANGALORE
133.	34S0540	AGRICULTURAL ROBOT - PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPET
134.	34S0765	VIRTUAL KEYBOARD WITH WIRELESS PS2 KEYBOARD PC INTERFACE - RAO BAHADUR Y. MAHABALESWARAPPA ENGINEERING COLLEGE, BELLARY
135.	34S0914	INDUSTRIAL AUTOMATION USING IMAGE PROCESSING AND ROBOTICS - SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

## TELECOMMUNICATION ENGINEERING

163.	34S0346	PREPAID AUTOMATED WIRELESS ENERGY METER USING SMARTCARD TECHNOLOGY - GSSS INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN, MYSORE
164.	34S0913	WATER AND SOIL MONITORING FOR FARMERS THROUGH A MICROCONTROLLER BASED SYSTEM - SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR
165.	34S0675	SMART POWER GENERATION USING TURBINES FOR HOMES & RECYCLING OF WATER WITH GENERATED POWER - SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR

## HALL NO. 6 (Venue : CSE LAB 3)

**JURY : Dr. N. C. Shivaprakash, Principal Research Scientist, Dept., of Instrumentation, IISc.**

## CIVIL ENGINEERING

Sl. No.	PROJECT REF. NO.	TITLE OF THE PROJECT AND NAME OF THE COLLEGE
69.	34S0941	DESIGN AND ECONOMICAL PERFORMANCE OF GRAY WATER TREATMENT UNIT - GLOBAL ACADEMY OF TECHNOLOGY, BANGALORE
70.	34S1001	DEVELOPMENT OF HOLLOW SOIL CEMENT BLOCKS FOR WALL CONSTRUCTION - RV COLLEGE OF ENGINEERING, BANGALORE
71.	34S0566	EFFECT OF GRADATION OF AGGREGATES ON THE PROPERTIES OF POROUS CONCRETE - SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING, MYSORE

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KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY (KSCST), BANGALORE  
and  
PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT (PESITM), SHIMOGA

**33<sup>rd</sup> Series - Seminar and Exhibition of Student Project Programme  
19<sup>th</sup> and 20<sup>th</sup> August 2011**

Date : Saturday, 20th August 2011

Time: 3.30 PM

Venue : Main Seminar Hall, PESITM, Shimoga

**VALEDICTORY FUNCTION**

**03.30 PM – 03.35 PM Invocation**

**03.35 PM – 03.40 PM Welcome Address**

**03.40 PM – 03.50 PM Address by**  
Dr. Vishwanath P. Baligar  
Principal, PESITM, Shimoga

**03.50 PM – 04.15 PM Chief Guest and Valedictory Address**  
Prof. B. K. Raghu Prasad  
Former Chairman, Department of Civil Engineering and CCMD,  
Indian Institute of Science, Bangalore

**04.15 PM – 04.25 PM Presidential Remarks**  
Prof. M. S. Mohan Kumar  
Secretary, KSCST, Bangalore

**04.25 PM – 04.35 PM Address by**  
Dr. M. Prithviraj  
Executive Secretary, KSCST, Bangalore

**04.35 PM – 04.45 PM Address by**  
Smt. S. Y. Arunadevi  
Joint Secretary, PES Trust (R)

**04.45 PM – 04.50 PM Response of participating Colleges**

**04.50 PM – 05.10 PM Presentation of Awards**

**05.10 PM – 05.15 PM Vote of Thanks**  
Dr. S. G. Sreekanteswara Swamy  
Fellow, KSCST, Bangalore

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**KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**  
**Indian Institute of Science, Bangalore - 560 012**

**List of projects selected for “PROJECT OF THE YEAR” award  
during the Seminar and Exhibition of Student Projects – 34<sup>th</sup> SERIES: 2010-11  
held on 19<sup>th</sup> and 20<sup>th</sup> August 2011 at  
PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIMOGA**

**BEST PERFORMANCE AWARD : 2010-11 : 34<sup>TH</sup> SERIES OF SPP**

**VIDYA VARDHAKA COLLEGE OF ENGINEERING, MYSORE**

**BEST PROJECTS OF THE YEAR (Seminar)**

**REDUCTION OF FREE FATTY ACIDS IN OIL USING SOLID CATALYSTS UNDER  
MICROWAVE IRRADIATION**

BIOTECHNOLOGY

- NMAM INSTITUTE OF TECHNOLOGY, NITTE

GUIDE : SRI VENKATESH KAMATH H.  
STUDENTS : GAUTHAMI R. SHETTY  
JANE ANUPAMA MARTIS  
NAGASHREE B.  
RASHMI S. SHENOY

**EVALUATION OF TRIBAL MEDICINE AND ACTIVE PRINCIPLE OF GLYCOSMIS  
MAURITIANA (LAM) TANAKA FOR ANTIOXIDANT AND ANTICANCER ACTIVITY  
AGAINST PC-3 CELL LINES**

BIOTECHNOLOGY

- SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR

GUIDE : DR. G. PANDURANGA MURTHY  
STUDENTS : ANUSHA KULKARNI  
RAMYA M. C.

**SOME STUDIES ON THE DEVELOPMENT OF PERVIOUS CONCRETE**

**CIVIL ENGINEERING**

- BMS COLLEGE OF ENGINEERING, BANGALORE

GUIDE : DR. S. GIRISH  
STUDENTS : B. N. PRIYANKA  
PRABHAKAR HAVALAGI  
NAGESH P.  
REKHA A. J.

## **MEASUREMENT AND CONTROL OF FLOW THROUGH BOX CULVERT AS CANAL OUTLET**

### **CIVIL ENGINEERING**

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

GUIDE : DR. T. GANGADHARAI AH  
STUDENTS : GURUDATH N.  
MADHU M.S.  
SUHAS S.  
VIJAYA KUMAR R.

## **A COMPARATIVE STUDY OF MODERN ASSISTED METHODS TO ENHANCE CHEMICAL REACTION, MASS TRANSFER OPERATION TO HAVE BETTER GREEN SUSTAINABLE ENVIRONMENT**

### **CHEMICAL ENGINEERING**

- KLE SOCIETY'S COLLEGE OF ENGINEERING AND TECHNOLOGY, BELGAUM

GUIDES : PROF. SHILPA U. MUTALIKDESAI, PROF. ANITA SHINDE & PROF. SAVITA K.  
STUDENTS : KISHAN ANAVEKAR  
SHRIDHAR HAROBELAWADI  
TRUPTI TELANG  
KAVITA ANVEKAR

## **PERFORMANCE EVALUATION OF CHITOSAN AND ZEOLITE AS FILTER MEDIA**

### **CHEMICAL ENGINEERING**

- VIDYA VARDHAKA COLLEGE OF ENGINEERING, MYSORE

GUIDES : DR. H. S. DAYANANDA AND MR. MADHUKAR M.  
STUDENTS : CHAITRA K. R.  
DWITHIYA CHANDRASHEKAR  
SAJANI B.  
SANDEEP S.

## **A SIMPLE METHOD FOR FASTER BIODIESEL PRODUCTION**

### **MECHANICAL ENGINEERING**

- NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, DEVANHALLI TQ, BANGALORE

GUIDE : DR. N. KAPILAN  
STUDENTS : ABHISHEK KUMAR  
ROSHAN KERKETTA  
ROHIT KUMAR SRIVASTAV  
PINAK KUMAR NATH

## **ONLINE MANAGEMENT SOFTWARE FOR THE AKSHAYA PATRA FOUNDATION, RAYAPUR, DHARWAD**

### **INFORMATION SCIENCE**

- SMT. KAMALA AND SRI.VENKAPPA M. AGADI COLLEGE OF ENGINEERING & TECHNOLOGY, LAXMESHWAR

GUIDE : MR. NAVEEN KULKARNI  
STUDENTS : AKSHATA JAVALI  
PAVAN JAHAGIRDAR  
PRAMEELA BAGEWADI

## **WIRELESS INDUSTRIAL HAZARD DETECTION CONTROL AND PROTECTION DEVICE USING EMBEDDED SYSTEM**

### **INSTRUMENTATION TECHNOLOGY**

- SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMKUR

GUIDE : SRI V. SIDDESWARA PRASAD  
STUDENTS : KAVYA M. C.  
MOHAN RAJ T. N.  
PRADEEP J.  
VAISHALI K. S.

## **STUDY OF ENERGY CONSERVATION OF AIT CAMPUS BY ENERGY AUDIT AND IMPLEMENTATION OF RETROFITS**

### **ELECTRICAL AND ELECTRONICS**

- ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKMAGALUR

GUIDES : MRS. A. M. LEELA, AND MRS. K. M. KAVITHA  
STUDENTS : NANDINI H. K.  
PRIYA B. S.  
PRASHANT JALIHAL  
MANJUNATHA C.

## **DESIGN AND ANALOG VLSI IMPLEMENTATION OF NEURAL NETWORK**

### **ELECTRONICS AND COMMUNICATION**

- BLDEA'S VACHANA PITAMAHA DR. P. G. HALAKATTI COLLEGE OF ENGG., & TECHNOLOGY, BIJAPUR

GUIDE : PROF. BAPURAY D. Y.  
STUDENTS : VADIRAJ R. GURUNAIK  
RAKESH N. BEVINAGIDAD  
VINAYAK U. GANDAGE

## **BEST PROJECTS OF THE YEAR (Exhibit)**

### **MOBILE WALLET**

### **INFORMATION SCIENCE AND ENGINEERING**

- VIDYA VARDHAKA COLLEGE OF ENGINEERING, MYSORE

GUIDE : MR. GOWRI SHANKAR  
STUDENTS : ANEESHA RAO A.  
ARUNA DEVI K.  
MEGHASHREE G.  
RAJANI CHETAN

## **DESIGN AND ECONOMICAL PERFORMANCE OF GRAY WATER TREATMENT UNIT**

### **CIVIL ENGINEERING**

- GLOBAL ACADEMY OF TECHNOLOGY, BANGALORE

GUIDE : SMT. SAI DARSHAN T. R.  
STUDENTS : CHETHAN S. GOWDA  
UMESH KUMAR N.  
ROSAN B. L.  
CHAITRA KULKARNI

## **ATM CODEX ACCESSING ATM REMOTELY**

### **COMPUTER SCIENCE AND ENGINEERING**

- PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIMOGA

GUIDE : MR. NAGARAJASWAMY B. M.  
STUDENTS : FARAHATH MULLA  
              : RANJITHA B. M.  
              : RANJITHA K. L.

## **DESIGN AND DEVELOPMENT OF SUN BIKE**

### **MECHANICAL ENGINEERING**

- JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIMOGA

GUIDE : DR. L. K. SREEPATHI  
STUDENTS : S. PAVAN KUMAR  
              : RAMESH S.  
              : RAJESH S.  
              : RAVINDRA A. R.

## **SUNFLOWER SEED AND OIL EXTRACTOR**

### **MECHANICAL ENGINEERING**

- MARATHA MANDAL'S ENGINEERING COLLEGE, BELGAUM

GUIDE : PROF. B. J. PATIL  
STUDENTS : ASLAM A. SANADI  
              : NILESH S. JADHAV  
              : RISHI M. GHODKE  
              : SAGAR V. BOGAR

## **DESIGN AND DEVELOPMENT OF CONTINUOUS WET TRANSFER PRINTING MACHINE FOR PRINTING NATURAL FIBRE FABRICS USING ECO-FRIENDLY NATURAL DYES**

### **TEXTILE TECHNOLOGY**

- BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANGERE

GUIDE : DR. K. MURUGESH BABU  
STUDENTS : ARUNA S. NAGANGOUDAR  
              : HARISH KUMAR N.  
              : MANJEERA MANNE  
              : SHAILESH S.

## **AGRICULTURAL ROBOT**

### **INSTRUMENTATION TECHNOLOGY**

- PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPET

GUIDE : PROF. SHILPA MEHTA  
STUDENTS : KEERTI K. KANCHI  
              : RAISA KHADER M.  
              : ROHINI R. S.  
              : NAGAMMA M.

## **INTELLIGENT LIGHTING SYSTEM CUM TRACKCUT IDENTIFIER AT RAILWAY STATION USING RF ID**

### **ELECTRICAL AND ELECTRONICS**

- STJ INSTITUTE OF TECHNOLOGY, RANEBENNUR, HAVERI

GUIDE : MS. DEEPA HIREMATH  
STUDENTS : DEEPA KALYANI  
              : JYOTHI HANGODIMATH  
              : K. M. LATHA  
              : NANDA S. HOSAMATH

## **VOICE RECOGNISATION AND ACCELEROMETER BASED WHEELCHAIR**

ELECTRONICS AND COMMUNICATION

- MARATHA MANDAL'S ENGINEERING COLLEGE, BELGAUM

GUIDE : PROF. A. M. GHORPADE  
STUDENTS : MAHAVIR TERAIYA  
ADNAN BHARMAL  
NEELKAMAL  
SWATI D.

## **HUMAN HANDS AND VOICE INTERPRETATION ROBOT WITH NAVIGATION**

ELECTRONICS AND COMMUNICATION

- SAMBHRAM INSTITUTE OF TECHNOLOGY, BANGALORE

GUIDE : MS. PUSHPA MALA S.  
STUDENTS : PREMKUMAR B.  
SHIVMURTHY B. G.  
SUNILKUMAR P. S.  
VIKAS S.

## **WIRELESS INTELLIGENT TRAIN TRACKING AND MANAGEMENT SYSTEM**

ELECTRONICS AND COMMUNICATION

- SHIRDI SAI ENGINEERING COLLEGE, ANEKAL

GUIDE : MR. C. SIVAPRAKASH  
STUDENTS : SRIKANTH J.  
SIDDHARTHA SARMA B.  
SHASHIDHAR GOUDA  
SHRUTHI P. R.

## **SOLAR ENERGY OPTIMISATION BY PRECISION SUN TRACKING**

ELECTRONICS AND COMMUNICATION

- VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR

GUIDE : DR. ASHOK KUMAR T.  
STUDENTS : AJAY V. S.  
RANJEET KUMAR  
VARUN T.  
ABHISHEK A. B.