



## **STUDENT PROJECTS PROGRAMME**

### **(SPP - 35th SERIES : 2011-12)**

#### **PROJECT PROPOSALS ARE INVITED FROM FINAL YEAR ENGINEERING STUDENTS**

KSCST invites project proposals from the final year engineering students for sponsorship, under the 35th series of Student Project Programme. KSCST has identified the following areas in addition to the routine engineering disciplines.

- **Geotechnical and Earthquake related studies - Soil mapping using borelog data, site effects and amplification.**
- **Climate Change – Technologies for monitoring / modelling.**
- **Cyber Physical Systems - WSNs, Control, Communication, Monitoring, Sensing, etc.**
- **Physical Layer Security.**
- **Cognitive Radio - Spectrum Sensing, Algorithms.**
- **Design and Development of Educational tools / Laboratory Equipments**
- **Water Technology and Waste Water Treatment Technologies**
- **Energy efficient devices**
- **Agro and Food Processing Technologies**
- **Health Care and Management**
- **Education - Development of Equipments / Experiments / Software / smart classes**
- **Information Technology for rural areas.**
- **Waste processing and wealth from waste**
- **Any other innovative projects**

Each college can send a **maximum of 10 best project proposals** and out of these 5 projects can be from ICT (Information Communication Technology - Information Science, Computer Science, Electronics and Communication, Electrical and Electronics) branches. **All other branches of Engineering should also be considered while selecting the best projects.**

Please send detailed project proposals **on or before 20th December 2011**. Your proposal should contain all the necessary details, as per KSCST format. **Project Proposals are not accepted after 20th December 2011.** Incomplete proposals, without contact numbers, email id, signature and seal of the institution will be rejected.

Project proposals will be evaluated by a panel of experts for consideration for sponsorship by KSCST. The amount sponsored will be sent to the Principal of the institution by crossed cheque. The project guide should take necessary steps to utilise this amount for the project work and submit the bills to KSCST through the Principal of their institution.

Further, evaluation of completed projects will be done at the nodal centre. The students need to demonstrate their project in the nodal centre. Selection of projects for Seminar and Exhibition will be based on this evaluation.

It is mandatory for the project team to exhibit / demonstrate their project in the nodal centre and in the seminar and exhibition (if selected). The final Seminar and Exhibition will be held during July 2012.

For information on Student Projects Programme (SPP) and for downloading the format and guidelines, please visit our website :

[www.kscst.org.in/spp.html](http://www.kscst.org.in/spp.html)

[www.kscst.iisc.ernet.in/spp.html](http://www.kscst.iisc.ernet.in/spp.html)

Interested students may kindly send the **"hardcopy of the project proposal"** with due approval from Project Guide and Principal of their respective colleges to:

The Secretary

Karnataka State Council for Science and Technology  
Indian Institute of Science, Bangalore - 560012

#### **DATES TO REMEMBER**

Last date for receipt of hardcopy of the project proposal as per the format	20th December 2011
Project approval by KSCST	31st January 2012
Evaluation of Projects and selection of projects for Seminar and Exhibition	April - May 2012
Final Project Report submission along with softcopy of the report in a CD	15th June 2012
Seminar and Exhibition of selected projects	June - July 2012

# KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

INDIAN INSTITUTE OF SCIENCE, BANGALORE - 560012

Telephone: 080 – 2334 1652, 2334 8848, 2334 8849, Telefax: 2334 8840

Email: [spp@kscst.iisc.ernet.in](mailto:spp@kscst.iisc.ernet.in) Website: [www.kscst.iisc.ernet.in/spp.html](http://www.kscst.iisc.ernet.in/spp.html) or [www.kscst.org.in/spp.html](http://www.kscst.org.in/spp.html)

## FORMAT FOR STUDENT PROJECT PROPOSAL

1. Name of College and Place : \_\_\_\_\_
2. Name of the SPP Co-ordinator (**Address, email id and Phone / mobile number**) : \_\_\_\_\_
3. Project title (in brief) : \_\_\_\_\_
4. Department : \_\_\_\_\_
5. Name(s) of guide(s) : \_\_\_\_\_  
(**Address, email id and Phone / mobile number**)
6. Name of Team Members (**Strictly not more than four students in a batch**) : \_\_\_\_\_  
(**Please specify Mr. / Ms. with email id and mobile number of the students**)
- 6a. Team Leader of the Project : \_\_\_\_\_  
(**Please specify Mr. / Ms. with email id and mobile number of the Team Leader**)
7. Date of commencement of the Project : \_\_\_\_\_
8. Probable date of completion of the project : \_\_\_\_\_
9. Has a similar project been carried out at your college or in any other college / institution (Check with the list of completed projects available in your college library or with the list available at KSCST library, Bangalore). If "Yes", please give details.
10. If this project is an improvement / extension of an earlier project, please give the title of earlier project and the year in which it was carried out. Specify the improvements / modifications clearly.
11. Is similar device / machine (outcome of the project) commercially available? If "Yes", what is the cost per unit? Please give details.
12. Objectives of the project highlighting its importance (not more than half a page): \_\_\_\_\_
13. Methodology (Not more than 2 – 3 pages) : \_\_\_\_\_
14. Expected Outcome of the project : \_\_\_\_\_
15. Application of the project : \_\_\_\_\_
16. If the project is a case study / survey project, variables to be studied, criteria for sample selection and size of the sample, etc., should be furnished. A specimen questionnaire should be attached.
17. In case of fabrication of related project, an engineering drawing with dimensions / detailed design calculations (approximately) of the machine / device should be attached to the proposal.
18. Budget (**break-up details should be given**) : \_\_\_\_\_
  - i. List of materials required and cost : \_\_\_\_\_
  - ii. List of equipment required and cost : \_\_\_\_\_
  - iii. Labour charges (details to be furnished, at prevailing rates) : \_\_\_\_\_
  - iv. Travel cost required for the project (details such as No. of students / guides & destinations, fare, etc.) \_\_\_\_\_
19. Any other details (Please specify) : \_\_\_\_\_

(Name & Signature of Guide)

(Signature of HOD with Seal)

(Signature of the Principal with Seal)

**Note: This is only a Format (Not an application form for project sanction).** Please prepare a detailed project proposal incorporating all the above details, signed by the project guide and the principal of your college and send it to the Secretary, Karnataka State Council for Science and Technology, Indian Institute of Science, Bangalore-560012 on or before the last date. Incomplete proposals, without contact numbers, email id, signature and seal of the institution will be rejected.

# KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

INDIAN INSTITUTE OF SCIENCE, BANGALORE - 560012

Telephone: 080 - 23341652, 23348848, 23348849, Telefax: 23348840

E-mail: spp@kscst.iisc.ernet.in Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

## Guidelines for Project Proposal Submission

1. Students studying in final year engineering are eligible to apply.
2. The Project Guides / HODs need to evaluate the project proposals and shortlist them before sending them to KSCST.
3. The college should nominate the SPP Co-ordinator with whom KSCST can interact.
4. Each college can send maximum 10 project proposals only. Out of these, 5 projects can be from ICT (Information Communication Technology – Information Science, Computer Science, Electronics and Communication, Electrical and Electronics) branches. All other branches of Engineering should be considered while selecting the projects.
5. The project team (batch) can have up to a maximum of **FOUR** students.
6. The team should submit the project proposal in the prescribed format only, duly signed by their Project Guide / Head of the Department and Principal of the institution.
7. It may be noted that the project proposed should be original, innovative and novel. They should have utility and applicability for implementation. Evaluation of the project is also based on these factors.
8. Project proposal should be sent as **hard copy** containing the synopsis of the project in the prescribed format (available in website also), duly signed by their project guide and Principal, to reach KSCST at the address given above on or before **20th December 2011**. Project proposals sent after this date will not be considered.
9. Each Project team should send **ONLY ONE** proposal.
10. The project team **SHOULD NOT** change the topic of the project after the project has been sponsored by KSCST and should not deviate from the objectives of the sanctioned proposal. In the event of any such changes, sponsoring will be treated as cancelled and the college should return the sanctioned amount to KSCST.
11. Project proposals received will be reviewed and evaluated by a team of experts and those selected will be announced in **KSCST website - www.kscst.iisc.ernet.in** or **www.kscst.org.in**.
12. The project sanction letter will be sent to the Principal of the institution with copies to the Project guide and Head of the Department.

13. The evaluation of projects will be conducted only at nodal centres. The students need to demonstrate their project in the nodal centre. The sponsored projects will be short-listed for Seminar and Exhibition during the evaluation. It is mandatory for the project team to exhibit / demonstrate their project in the nodal centre and also in the seminar and exhibition (if selected). The seminar and exhibition will be held during **June - July 2012**, i.e., after the final exam and before the results declaration by VTU.
14. **The amount sponsored will be sent to the Principal of the institution by crossed cheque.** The project guide should take necessary steps to utilise this amount for the project work and submit the bills to KSCST through the Principal of their institution.
15. Every sanctioned project will be given an unique Project Proposal Reference Number. Please give the reference of this number while corresponding with KSCST by E-mail: [spp@kscst.iisc.ernet.in](mailto:spp@kscst.iisc.ernet.in)
16. The evaluation of sponsored projects will be conducted during **April - May 2012** and the projects will be short-listed for Seminar and Exhibition where they will be selected for Prizes and Certificates.
17. It is mandatory for the project team (Team Leader and Project Guide) selected for Seminar and Exhibition to participate in the event. This will be organised in one of the engineering colleges in the state. (Previous Seminar and Exhibition (34<sup>th</sup> Series) was hosted by PES Institute of Technology and Management, Shimoga in August 2011).
18. **It is mandatory for the project team to submit one copy of the final project report along with a CD containing the final report, in MS Word as well as in .pdf format to KSCST. Also the team should send the project synopsis (of 2-3 page write-up) for publishing the same in the form of a compendium which will be brought out during Seminar and Exhibition. The project guide and Team Leader will be responsible for this activity.**
19. During the Seminar and Exhibition, "**KSCST Best Project Award**" will be presented to the **outstanding projects** with a cash prize (for both Students and Project Guides) and certificates to all participants of the Seminar and Exhibition in a special function organized for the occasion.
20. Kindly visit our website [www.kscst.iisc.ernet.in/spp.html](http://www.kscst.iisc.ernet.in/spp.html) for further details and announcements.