



# KINGS

College of Engineering



# R & D Newsbulletin

Annual Newsbulletin  
(June 2014-May 2015)





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## Message from CEO

I am happy to know that the R&D section is releasing the first issue of its Annual Newsletter. It outlines the progress made during the past one year and recapitulates all events, showcasing various activities.



Apart from teaching, our faculty members are deeply engaged in research which has led to publication of their research findings in various conferences and journals.

The positive reaction to the first newsletter has strengthened our spirits and I am sure it has filled every one with a new passion to work even harder. I hope this issue also keeps you updated and provides a bigger platform for the promotion of the interests of our institution.

Congratulations to the board members and especially the students who combinedly helped in materializing this issue a memorable one.

Shri. T.R.S.Muthukumaar  
Chief Executive Officer

## Message from Principal

It gives me immense pleasure to know that the department of R&D is bringing forth the first issue of their news bulletin. It is heartening to see that the members have taken time and pains in their Endeavour in bringing out an attractive, informative and useful bulletin that is full of contributions from a broad spectrum of the students and staff.



It is a very good platform given by the department to showcase their skill, talent and multi-faceted personality. I am sure the students would have surprised many of their faculty member and above all themselves by the hidden talents which were dormant all these days. The magazine also proudly displays the list of achievers. This will for ensure, stimulate and inspire other students also put an extra effort to see to that their names also find place in such lists.

I wish one and all who have directly or indirectly, actively or passively taken part in this Endeavour good luck and grand success in all walks of life.

Dr. S. Durairaj  
Principal

## About Research & Development

KINGS R&D cell was established in the year 2008 and upgraded with state-of-art research facilities as R&D section in the year 2013. Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering departments are recognized as research centres for collaborative research by Anna University, Chennai. DRDO sponsored Laser Communication Laboratory is one of the significant laboratories in this region to carry out research in the areas of FSO & AO. A significant number of projects funded by various government and non-government funding sectors namely, DRDO, MCIT, AICTE, New Delhi, TNSCST, Chennai, Analog Devices, USA and Texas Instruments, USA are successfully carried out.

## Professional Society

Our Students & Faculty are members of the following professional societies:

Indian Society for Technical Education (ISTE)	406
Institution of Engineers India IE(I)	350
Institution of Electronics and Telecommunication Engineers (IETE)	63
Indian Society of Mechanical Engineers (ISME)	55
Instrument Society of India (ISOI)	41
Computer Society of India (CSI)	74
Institute of Electrical and Electronics Engineers (IEEE)	22



## Memorandum of Understanding (MoU)

### International Universities

To accomplish an indelible position in global education, KINGS have signed MoU with leading Korean universities like Hannam University and Daejeon University, Korea. Through this MoUs we endeavor to offer a quality education to students and a competitive working environment to our Faculty members. We have taken initiatives for Student exchange and Faculty Exchange Program through these Collaboration.



Dr.S.Durairaj, Principal & Mr.TRS. Muthukumaar,CEO receiving MoU from Prof. Kim, Hannam University Korea.

### National Institute

A MoU was executed between KINGS and Indian Institute of Crop Processing Technology (IICPT), Thanjavur. The MoU was executed to facilitate exchange of faculty, students and staff for purpose of research; coordination of joint research, lectures and training; development of mutually beneficial research programmes.



From Left: Vice Principal, Dean(R&D), Principal, Director, IICPT during the execution of MoU.

## Research Facilities

Specialized laboratories:

ECE-DRDO sponsored Laser Communication Laboratory  
Research Areas: Free Space Optics, Adaptive Optics, Atmospheric Modeling, Visible Light Communication, Image/Signal Processing & Digital Controller Implementation.



Laser Communication Laboratory Transmitter (Left); Receiver (right)

EEE-Energy management system using solar PV panel without inverter

Research Areas: Renewable Energy, Power system.



Dr. P.S. Kannan, Visiting Professor, demonstrating the concept of energy management system using solar PV panel without inverter.

## Mechanical Engineering

Research Areas: Alternate fuels.

## CSE/IT

Research Areas: Data Mining, Networking, Soft computing.

## Faculty doing Ph.D.

Mrs. D. Subasri, Civil Engineering  
 Mrs. J.Sharmila, Civil Engineering  
 Mrs.T.Vigneshwari, Computer Science & Engineering  
 Mrs.S.M.Uma, Computer Science & Engineering  
 Mr.D.Sivakumar, Computer Science & Engineering  
 Mr.J.Jegan, Computer Science and Engineering  
 Mrs. K.Abhirami, Computer Science & Engineering  
 Mrs.P.Nalayini, Computer Science & Engineering  
 Mrs.T.Shanthi, Electronics & Communication Engineering  
 Mrs. M. Meenalochani, Electronics & Communication Engg.,  
 Mr. A. Herald, Electronics & Communication Engineering  
 Mr. T. Pasupathi, Electronics & Communication Engineering  
 Mr.A.Tamilselvan, Electrical & Electronics Engineering  
 Mrs.B.Priya, Electrical & Electronics Engineering  
 Mrs.N.Hemavathi, Electrical & Electronics Engineering  
 Mr.A.Albert Martin Ruban, Electrical & Electronics Engg.,  
 Mr.P.Narasimman, Electrical & Electronics Engineering  
 Mr. J.Arokia Raj, Electrical & Electronics Engineering

Mr. S.R.Karthikeyan, Electrical & Electronics Engineering  
 Mr. R. Sundaramoorthy, Electrical & Electronics Engineering  
 Mrs.K. Sathyalakshmi, Information Technology  
 Mrs.M. Malathy, Information Technology  
 Mr.R. Murugesan, Information Technology  
 Mr.P.P.Shantharaman, Mechanical Engineering  
 Mr.M.Babu, Mechanical Engineering  
 Mr. R.Sankar, Mechanical Engineering  
 Mr.R.Senguttuvan, English  
 Mrs.G.Ramya Arokiamary, Mathematics  
 Mr.G. Shankara Kalidoss, Mathematics  
 Mr. G. Jeyakrishnan, Mathematics  
 Mrs. S. Geetha, Mathematics  
 Mrs. S. Revathy, Mathematics  
 Mr. R. Suresh, Mathematics  
 Mrs.N.Latha, Mathematics  
 Mr. K.Sudhakar, Training & Placement  
 Mr. B. Barankumar, Training & Placement  
 Mr. B. Suresh Babu, Training & Placement

## Faculty completed Ph.D.

Dr. R. Saravanan, Civil Engineering  
 Dr. P. Saravanan, Chemistry  
 Dr. T. Pushparaj, Mechanical Engineering  
 Dr. A. Arockia Bazilraj, Electronics & Communication Engineering  
 Dr. S. Sivakumar, Electrical & Electronics Engineering  
 Dr. V. Kumaran, English

## Publications

Dept	Conference	Journal
Civil	11	04
CSE	18	20
ECE	71	48
EEE	62	17
MECH	23	18
IT	02	04
S&H	30	30

## Grants sanctioned

A grant-in-aid of Rs. 1,94,000/- is sanctioned towards **Mathematics popularization and communication** from Department of Science and Technology, New Delhi (PI: Dr. S. Durairaj, Principal).

Department of EEE is sanctioned a grant-in-aid of Rs. 50,000/- towards organizing national conference on Energy Conservation and Control in Electrical Engineering Applications from Ministry of New & Renewable Energy, New Delhi.

IEEE Madras Section sponsored Rs.8,000/- towards Project titled **“Design of portable autonomous machine to measure soil nutrients, pH, salinity and moisture for agriculture process”**.

## Proposals submitted

A proposal towards **“Fund for Improvement of S&T Infrastructure (FIST)”** is submitted to Department of Science & Technology, New Delhi, seeking grant-in-aid of Rs. 68,72,600/-.

## Journal publication - ICETETS'2016

Extended version of papers to be presented in Int. Conf. ICETETS-2016 will be published in the following journals

1. Computers and Electrical Engineering (Thomson Reuters)
2. International Journal of Earth Science and Engineering (Scopus Indexed).
3. International Journal of Applied Mathematics and Statics (Scopus Indexed).
4. International Journal of Mathematics & Computation (Scopus Indexed).
5. International Journal of Electronic Transport. (Special Issue)
6. Journal of Communications Engineering and Networks

## Visiting Professor Activities:

Dr. P.S. Kannan, Professor Emeritus, Thiagarajar College of Engineering, Madurai assisted various R&D activities:

- A lecture on “Fuzzy Systems” to all PG students on 13<sup>th</sup> August, 2014.
- A lecture on “Optimization techniques” to all PG students and “Project based learning” to final year ECE students on 08<sup>th</sup> September, 2014.
- Reviewed the progress of the research scholars on 09<sup>th</sup> October, 2014.
- A lecture on “Autonomous Status – an awareness” to faculty members on 13<sup>th</sup> November, 2014.
- Lecture & practical demonstration in the workshop on “Energy Management System using Solar PV panel without Inverter” on 23<sup>rd</sup> January, 2015.
- Reviewed the progress of PG VLSI student’s project and delivered a lecture on “Optimization Techniques” to the PG students of MPC, PED and Thermal on 19<sup>th</sup> February, 2015.
- Lecture on “Time Response” to ECE & EEE students on 19<sup>th</sup> March, 2015.
- Reviewed the progress of the research scholars on 21<sup>st</sup> April, 2015.
- Reviewed the conduct of lab experiments on 26<sup>th</sup> June, 2015.

## Invited Talks

Dr. Kim, Professor Emeritus, Hannam University, Korea delivered a special lecture to ECE students on “Why Digital Signal Processing” on 23<sup>rd</sup> January, 2015.

Dr.Kushal P.Singh, Sr.Scientist, National Geophysical Research Institute, Hyderabad, delivered a special lecture to faculty members on “How to prepare research proposals to get grants from CSIR” on 9<sup>th</sup> March, 2015.

Mr.K.Gobi, Scientist, DRDO, Hyderabad, delivered a special lecture to faculty members on “Self Reliance in Defense sector” on 10<sup>th</sup> March, 2015

Dr.C.Tharani, Abdur Rehman Crescent University, Chennai, delivered special lecture to members on “Teaching Methodology” on 10<sup>th</sup> March, 2015.

Dr.P.Venkatraman, Professor, Indian Institute of Science, Bangalore, delivered a lecture to faculty members on “How to be a good teacher” on 11<sup>th</sup> March, 2015.

Prof.P.S.Nagendra Rao, Professor, Indian Institute of Science, Bangalore, delivered a lecture to faculty members on “Significance of collaboration with foreign universities” on 12<sup>th</sup> March, 2015.

Dr.S.Rajpandian, Director- Research, Velammal Engineering College, Madurai, delivered a lecture to faculty members on “Institutional preparation for industrial acceptance” on 13<sup>th</sup> March, 2015.



From left: Dr.P.Venkataram, Professor, Indian Institute of Science, Bangalore, delivering lecture.



From left: Dr.S.Rajpandian, Director (Research), Velammal College of Engineering and Technology, Madurai, delivering lecture.

“Learning gives creativity, Creativity leads to thinking, Thinking provides knowledge, Knowledge makes you great.”

Dr.A.P.J. Abdul Kalam

## Events Organized

A workshop on "Android Systems" was organized on 24<sup>th</sup> & 25<sup>th</sup> of July, 2014 in association with OneYes Technologies, Chennai. Mr. Yogees Kumar, System Engineer & Mr. P. Tamilarasan, Product Developer handled the sessions. The participants were given a detailed presentation on History of Android; Open handset Alliance; Advantages over other operating systems; Android Architecture; Installing/Configuration the Eclipse Plug-in; First Android Application and Deployment in mobile.



From left: Prof.S.Sivakumar, VP, Mr. P. Tamilarasan & Mr. S. Vinoth, Project Developers, ONEYES TECHNOLOGIES, Chennai, Dr. J. Arputha Vijaya Selvi, Dean (R&D), Mr. T. Pasupathi, Asst. Prof.



From left: Dr. N. Kumrappan, Secretary, IEEE Madras Section, Chennai delivering the inaugural address at IEEE-SC. Dr. S. Durairaj, Principal; Dr. P.S. Kannan, Professor Emeritus, Dr. J. Arputha Vijaya Selvi, Dean(R&D) are seen in picture.

IEEE Student Branch of our college was inaugurated on 13<sup>th</sup> August, 2014. Dr. N. Kumarappan, Secretary, IEEE Madras Section, Chennai (R-10) inaugurated the branch and delivered the inaugural address. In his address he explained the benefits of IEEE, top 10 project domains and also the available scholarships and awards in IEEE. Dr. S. Durairaj, Principal, delivered the presidential address. IEEE STB members attended the program. Dr. P.S. Kannan, Professor Emeritus, in his special address shared his experience in research and publishing papers in referred journals. Membership certificates were issued to the student members. IEEE STB counselor, Mr. E. Venugopal, introduced the Office Bearers for the year 2014-15.

IEEE Student Branch and R & D section organized a one day workshop on "Research Methodology and Statistical Tools for Research" on 26<sup>th</sup> September, 2014, for PG students and research scholars. Dr. A. Arockia Bazil Raj, ASP, ECE-R & D introduced the guests. Dr. K. Manomani, Associate Professor, Mechanical Engineering, Government College of Technology, Coimbatore delivered the inaugural address. The sessions were handled by Dr. K. Manomani, ASP, Mechanical Engineering, Government College of Technology, Coimbatore and Dr. S. Bharathiraja, Principal, Indra Ganesan College of Engineering, Tiruchirappalli. In their lecture, they stressed the importance of research methodology, various processes involved in research and shared their research experiences along with case studies to the participants. Useful web resources for identifying current issues in engineering and technology were briefed.



Dr. K. Manomani, Associate Professor, Mechanical Engineering, Government College of Technology, Coimbatore; Dr. S. Bharathiraja, Principal, Indra Ganesan College of Engineering, Tiruchirappalli. Dr. S. Durairaj, Principal, KCE; Dr. J. Arputha Vijaya Selvi, Dean(R&D) are seen in picture (L-R)



Students debugging at the Texas Instruments Analog Design Contest 2014 organized under Texas Instruments University Program. 128 students-30 teams participated.

Organized "Texas Instruments Innovation Challenge India Analog Design Contest 2014" on 30<sup>th</sup> September 2014. Three teams were recommended for next level participation. Ms. R. Navinaa, Ms. S. Poornima, Ms. K. Sindhuja and Ms. J. Silviya, of final year ECE were selected by TI India and awarded with TI Chromos Development Tool and certificate. Mr. T. Pasupathi, AP/R&D was awarded with certificate of appreciation by TI India for the coordination. Participation certificates were given to all participants by TI, India.

IEEE STB, R & D and Department of EEE organized an “Awareness Program on Electrical Safety & Women in Engineering” to the students of Girls Christian Higher Secondary School, Thanjavur, on 3<sup>rd</sup> December, 2014. Prof. T.Kannan, Project Officer, presided over the program and delivered the awareness speech on “Electrical safety”. An awareness talk on “Women in Engineering” was given by the members of IEEE STB. Mr. E.Venugopal, IEEE Student Branch Counselor gave the special address on higher studies to the students.



IEEE Student Branch Members delivering an awareness talk on “Women in Engineering”.



Team of experts reviewing the projects displayed at the Project Expo

R & D section organized a “Project EXPO” under IEEE Student Branch exclusively for the first year students on 10<sup>th</sup> October, 2014 to create research ambience. It was organized for the budding engineers to showcase their hidden talents & skills. The projects were evaluated by a team of experts. Participation certificates were given to all the participants. Certificate of appreciation with cash prize were awarded to Mr.S. Hariharan & Mr. M. Jafri Robinson of I ECE (I Prize); Mr. M.P. Salaimanimagudam of I Civil (II Prize) and Mr.R. Balaji & Mr. A. Mukilan of I Mechanical (III Prize).

IEEE Student Branch and R & D section organized an “IEEE Membership Awareness Program” on 11<sup>th</sup> October, 2014. Mr. G.Mathew Rajasekaran, IEEE STB Chairman, welcomed the gathering. Prof. S.Sivakumar, Vice Principal, presided over the program and delivered special address on “IEEE Membership and Standards”. An awareness talk on IEEE membership was given by Mr. E.Venugopal, IEEE STB Counselor. In his lecture, he briefed the benefits of IEEE membership, opportunities available. Ms. U.G.Lydia, IEEE STB Treasurer, proposed the vote of thanks.

IEEE STB and Department of EEE organized a workshop on “Project and Robotics” to the EEE & ECE students of KCE from 15<sup>th</sup> to 18<sup>th</sup> December, 2014. 40 students attended the workshop. Mr. E.Venugopal, IEEE Student Branch Counselor and Mr. P.Narasimman, Asst. Prof/EEE, handled the sessions. In their lecture, they briefed on Basics on electrical & electronics, design of simple circuits, basic of microcontroller, Interfacing of sensors, motors and actuators with microcontroller and overview on robotics & its applications. A hands-on-session was also organized.

Dr. Jai Ragnathan, Chair (underwater vehicles), Marine Institute of Canada, delivered a guest lecture on “Underwater Vehicles” on 19<sup>th</sup> January, 2015 to the students of EEE. In his lecture he briefed about Underwater Vehicle: past, present and future, career opportunities in underwater communications and applications of underwater autonomous vehicles.



Dr. Jai Ragnathan, Chair, Marine Institute of Canada, delivering guest lecture on “Underwater Vehicles”.



Dr. V.R. Sarma Dhulipala, BIT Campus delivering lecture to the participants of the seminar



Seminar on “Art of writing paper” was organized on 30<sup>th</sup> January, 2015 by R&D Section. Dr. Vinod Balakrishnan, National Institute of Technology, Tiruchirappalli, delivered the inaugural address. The sessions were handled by Dr. Vinod Balakrishnan, NIT, Tiruchirappalli and Dr. V.R. Sarma Dhulipala, BIT Campus, Tiruchirappalli shared views on selection of a journal, structure of a research article, art of referencing and ethics in publishing. Faculty, PG students and research scholars attended the seminar.

IEEE Student Branch and R&D section organized a workshop on “Robotics” on 13<sup>th</sup> February, 2015. Dr. P.A.Manoharan, IEEE chair (RAS) & Chair IEEE student project funding, inaugurated the program and gave a special talk on “Robotics”. Session–II was handled by Mr. E.Venugopal, Asst. Prof/EEE and Session–III was handled by Mr. P.Narasimman, Asst. Prof/EEE. Mr.G.Mathew Rajasekaran, IEEE-STB chairman, proposed the vote of thanks.



Dr. P. A. Manoharan delivering special address to the participants of the workshop



Students exhibiting their projects at the Project EXPO'15

R&D section organized Project EXPO'15 for polytechnic students on 24<sup>th</sup> February, 2015. The expo was formally inaugurated by Prof. S. Sivakumar, Vice Principal. Dr. J. Arputha Vijaya Selvi, Dean (R&D), delivered a talk on the purpose of organizing the expo. Prof. T. Kannan, Project Officer, delivered a lecture on “Electrical Safety”. Participants from five colleges exhibited their models. The projects were evaluated based on various criteria by the expert panel. Best three projects were selected and awarded with cash prize. The winners are M. Sheik Abdullah, R. Vairamani & R. Vinobala of Valivalam Desikar Polytechnic College (I Prize), M. Vinothkumar & R. Prakash of Valivalam Desikar Polytechnic College (II Prize), S. Clinton & S. Tamilkudimahan of A.R.J Polytechnic College, Mannargudi (III Prize).

### Forthcoming Major Event

IEEE sponsored First International Conference on “Emerging Trends in Engineering, Technology and Science (ICETETS)” during 24<sup>th</sup>-26<sup>th</sup> February, 2016.



**KINGS COLLEGE OF ENGINEERING**  
Punalkulam



First International Conference  
on  
Emerging Trends in Engineering, Technology and Science  
(ICETETS-2016)  
24 -26<sup>th</sup> February, 2016



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Madras Chapter







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Places to Visit : (from KCE in KM)

 Sri Brahadeeswarar Temple, Thanjavur(21)	 Thanjavur Palace, Thanjavur(23)
 Grand Anicut, Kallanai(49)	 Sri Ranganatha Swamy Temple, Srirangam(55)
 Velankanni Church, Velankanni(115)	 Nagore Dargah, Nagore(109)
 Mahamagam Tank, Kumbakonam(60) <small>Mahamagam Festival: 23 October 2015</small>	 Tamil University, Thanjavur(31)

**Address For Communication**

Dr. S. Durairaj,  
Conference Chair – ICETETS2016,  
Principal,  
Kings College of Engineering,  
Punalkulam - 613 303,  
Thanjavur, Tamilnadu, India.  
email: icetets2016@kingsindia.net  
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Kings at Anna University News Bulletin - January - April 2014

**KINGS COLLEGE OF ENGINEERING, Punalkulam, Pudukkottai**

• **Grants Received**

- \* AICTE, New Delhi, has sanction Rs.7,39,947/- for "Modernization of DSP Lab".

• **Organized**

- \* A National Level workshop on "Network Security" in association with IIT-Delhi ACM & Network Bulls from 24.01.2014 to 25.01.2014.
- \* A CSIR sponsored National Seminar on "Recent Trends in Smart Materials (NSSM-2014) by the Department of Chemistry on 17.04.2014.

**College signs MoU**

**PUDUKOTTAI:** The Kings College of Engineering, Punalkulam, has entered into a memorandum of understanding with the Indian Institute of Crop Processing Technology, Thanjavur, for exchange of faculty and students for purpose of research. Reciprocal assistance for visiting faculty and students, coordination of joint research, lectures and training and development of mutually beneficial research programmes are envisaged under the MoU, according to a press release from J.Arputha Vijaya Selvi, Dean (R&D), Kings College of Engineering. The MoU documents were exchanged in the presence of K.Singaravadevel, Director, IICPT, S.Durairaj, Principal, Kings College of Engineering.

Kings at Anna University News Bulletin - May - August 2014

**KINGS COLLEGE OF ENGINEERING, Punalkulam, Pudukkottai**

• **Organized**

- \* A one-day workshop on "Solar Energy and its Application in Microgrid" on 25.07.2014.
- \* A camp on "Blood Group Identification" through Raja Mirasudar Hospital, Thanjavur in association with NSS Unit I & II on 25.08.2014.
- \* A three-day workshop on "Reconfigurable Antennas & Optical Networks" from 25.08.2014 to 27.08.2014.

**Kings College of Engineering:** National conference on Energy conservation and control in electrical engineering application, P.S.Nagendra Rao, professor, Indian Institute of Science, Bangalore, R.Gnanadas, professor, Pondichery Engineering College, and N.Kumarappan, Secretary, IEEE, Madras, speak, 10 a.m.

**Kings College of Engineering:** National conference on Trends in Information Technology, S.Rajpandian, Director (research), Velammal Engineering College, chief guest, 10 a.m.

**Kings College of Engineering:** Workshop on Robotics, P.A.Manoharan, chair (Robotics and Automation Society), IEEE, Madras Section, speaks, 10 a.m.

**IEEE student branch inaugurated**

A student branch of the IEEE (Institute of Electrical and Electronics Engineers) was inaugurated at the Kings College of Engineering recently. N.Kumarappan, secretary, IEEE, Madras Section, briefed the students about the importance of holding IEEE membership, top ten project domains and opportunities for employment. P.S.Kannan, professor emeritus, TCE, Madurai, delivered the inaugural address and S.Durairaj, principal, Kings College of Engineering, presided. IEEE membership certificates were distributed to the student members.

**Kings College of Engineering:** National conference on Emerging trends in communication and VLSI design, P.Venkataraman, professor, Indian Institute of Science, Bangalore, and M.Manikandan, professor, Madras Institute of Technology, participate, 10 a.m.

**Kings College of Engineering:** National conference on advances in computing technologies, C. Tharani, Professor, Abdur Rehman Crescent University, and K. Gobi, scientist, DRDO, Hyderabad, speak, 10 a.m.

## Awarded Student Project for the year 2014-15

Sl. No.	Project Title	Students Name Mr./ Mis.	College Name	Funded Amount Rs.
1.	Hand Held Farming	M. Kiruba Sankar	Mepco Schlenk Engineering College	12000.00
2.	Design of Portable Autonomous Machine to Measure Soil Nutrients, pH, Salinity & Moisture for Agriculture Process	S. Jagadeesan M. Saravanan	Kings College of Engineering	8000.00
3.	An Outclassed Hexacopter Design With Specialized Robotic Arms for the Utility Lines Maintenance"	J. Angelin Indira J. R. GeethuSree S. Simonraj	St. Xavier's Catholic College of Engineering	10000.00
4.	Rapid fire intimation system in railways using zigbee wireless sensor networks	P S Ramprasath K. Sairam	Sri Muthukumaran Institute of Technology	5000.00
5.	Virtual Vision for Visually Impaired Shoppers	Aleena Paul K Padma Priya	Sri Muthukumaran Institute of Technology	5000.00
6.	Centralized gas leakage / fire detection and rescue system for apartments and industries using low power microcontrollers and RF	I Ebenezer N Bala Rajeswari S Gokulapriya R Janani R	Karpagam Institute of Technology	8000.00

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## SFRDS

To promote Research and Development activities in all the departments Students Faculty Research and Development Schemes (SFRDS) are established. An amount of Rs. 12,00,000/- to all departments per year (Rs. 2,00,000/- per department) is sanctioned towards carrying out the activities listed below:

Name of the Schemes	Budget (Rs.)
<b>Academic Activities</b>	
Dissemination of Innovative Technology (DIT)	15,000
Financial Assistance for organizing Seminar / workshop	15,000
Financial Assistance for organizing:	
I. International Conference	25,000
II. National Conference	12,500
Financial Assistance for organizing Staff Development Programme	15,000
<b>Co Curricular Activities</b>	
Student Project Scheme	13,000
Mini Project Contest	2,500
Technical Events	3,000
Financial Assistance for organizing Symposium	12,000
<b>R&amp;D Activities</b>	
Kings Young Scientist Award	6,000
Innovation Promotion Award	6,000
Conference / Journal Publications	15,000
<b>Other Department Activities</b>	
Financial Assistance for attending Staff Development Programme	40,000
Extension Activities	10,000
Miscellaneous Expenses	10,000
<b>TOTAL</b>	<b>2,00,000</b>

## Glimpses

July 2014

Android workshop

August 2014

IEEE Student Branch Inauguration

September 2014

Workshop on Research Methodology and Statistical Tools  
Texas Instruments Innovation Challenge India Analog Design Contest 2014

October 2014

Project Expo

December 2014

IEEE Membership Awareness  
Awareness on Electrical Safety & Women in Engineering

January 2015

Workshop on Project & Robotics  
Lecture on Underwater Vehicles

February 2015

Why Digital Signal Processing  
Workshop on Robotics

March 2015

Project EXPO 2015  
How to prepare research proposals to get grants from CSIR

Self Reliance in Defense sector

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How to be a good teacher

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Institutional preparation for industrial acceptance

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