

**Newsletter committee**

**Chief Editor:**

Dr.M.Arunachalam,  
*Professor and Head*

**Staff Member:**

Prof.S.KrishnaPrasath

**Student Member:**

1. Arpitha Avinash, VII Sem.
2. Sangeetha, V sem.

**Upcoming event:**

1. Three days International Seminar on "Electric Vehicle (EV) / Electric Hybrid Vehicle (EHV) Technology", RRCE Bangalore, February 2014.

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**RAJARAJESWARI COLLEGE OF ENGINEERING**

**BANGALORE-560074**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**



**VISION OF THE DEPARTMENT**

*"To be an outstanding Department producing graduates of world class standards in the field of Electrical and Electronics Engineering through promoting excellence, imparting core values and ethics for holistic development of our graduates and be known as top ranking Department in the State of Karnataka by 2018"*

**MISSION OF THE DEPARTMENT**

*"To produce excellent manpower in the field of Electrical & Electronics Engineering by introducing innovative teaching methods and projects within the parameters of values and ethics; constantly interacting with industries to understand current requirements, collaborating with leading institutions to upgrade knowledge and establish Centre of Excellence".*

FROM PRINCIPAL's DESK

The EEE department has made rapid strides during the last decade in all spheres of education. We now emphasize post graduate education in a significant way. We provide a very informal atmosphere between faculty and students. Faculty members of our department are not only engaged in cutting edge technology research but are also very passionate about teaching. Alumni support has always been a great driving force in the progress of EEE department and we value our continued relationship with all alumni. Finally, EEE department striving for excellence in whatever we do. I hope we will be able to maintain this in the years to come.

Dr. M S Bhagyashekar  
Principal, RRCE

FROM HOD's DESK

The Department of Electrical and Electronics Engineering has well qualified and highly motivated faculty and well equipped laboratories to cater the needs of students. The faculty members published technical papers in national and international conferences, and journals. The department is fortunate to have dedicated teachers, devoted students, and committed supporting staff and expert technical staff. In addition to classroom teaching, the students are exposed to extension lectures by eminent persons in the field of Electrical Engineering. Enhancing technology is an important aspect of our department and appreciates the students to equip themselves and to acquire skills to meet the growing departments of the industry.

Dr.M.Arunachalam  
Professor and Head

STUDENTS ACHIEVEMENTS:

- The Final year student projects “Energy efficient solar dish washer” and “Customer security at ATM” have been approved & sponsored by KSCST for student project programme (SPP)-37<sup>th</sup> series :year 2013-14

GRANTS FETCHED

- Grant of Rs.1, 50,000 from AICTE for International Seminar on “Electric vehicle/ Hybrid Electric Vehicle (EV/HEV)” Feb. 19-21, 2014.

CONFERENCES/WORKSHOPS/LECTURES/TRAINING PROGRAMS ATTENDED BY STAFF MEMBERS

- Dr.M.Arunachalam HOD of EEE participated as an invitees in National Workshop on POWER ELECTRONICS (NWPE-2013) under National Mission on Power Electronics Technology (NaMPET-II) at Bangalore September 19, 2013.

- K. Subramanian, S. P. Sabberwal, M. Arunachalam and D. P. Kothari “Implementation of Vernier Mode Operation Using STATCOM for Terminal Voltage Regulation of a Three Phase stand- alone Wind Driven Self Excited Induction Generator” presented at *4th International Conference on Advances in Energy Research (ICAER) 2013*, IIT/Bombay, Mumbai, Dec. 9-11, 2013.
- EEE faculty members attended Three days FDP on “Grooming the Faculty Fraternity” and benefited in RRCE Bangalore, January 2014

CONFERENCES/WORKSHOPS/LECTURES/TRAINING PROGRAMS ORGANISED

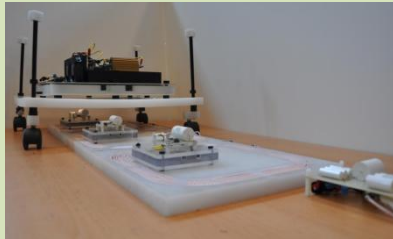


One day work shop on “PCB DESIGNING” was conducted by Prof.S.KrishnaPrasath, EEE Dept. Under the banner of “Transformer’Z “Association of electrical and Electronics Engineering on 7<sup>th</sup> Nov 2013. Students and faculties from EEE department participated in this event. From this workshop all the participants came to know about the various processes involved in the PCB fabrications. All the students were actively involved in this workshop and benefited.



Faculty development Program on “MODERN TRENDS IN ELECTRICAL AND ELECTRONICS ENGINEERING” was organized by EEE Dept. from 18<sup>th</sup> to 23<sup>rd</sup> Dec 2013. Staff members from EEE department conducted and participated in the FDP in various topics and benefited.

Recent Electrical science inventions

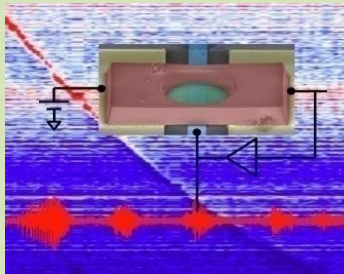


Engineering researchers have developed new technology and techniques for transmitting power wirelessly from a stationary source to a mobile receiver - moving engineers closer to their goal of creating highway "stations" that can recharge electric vehicles wirelessly as the vehicles drive by.

*Source: North Carolina State University*

Solar cells that produce electricity 24/7. Cell phones with built-in power cells that recharge in seconds and work for weeks between charges: These are just two of the possibilities raised by a novel super capacitor design invented by material scientists.

*Source: Vanderbilt University*



Scientists have taken advantage of graphene's special properties -- its mechanical strength and electrical conduction -- and created a nano mechanical system that can create FM signals, in effect the world's smallest FM radio transmitter.

*Source: Columbia University School of Engineering and Applied Science*

A viable solution for sustainable energy transmission is the onsite generation of electricity using the photovoltaic method of converting solar energy directly into electrical energy.

*Source: Clemson University*

