Department of Electrical & Electronics Engineering

KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE

WARANGAL-15

Newsletter

VOLUME I, ISSUE II

FEB 12th, 2015

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CHIEF EDITOR MESSAGE

With great pleasure and honour I write this foreword. Indeed this newsletter is a testament to the departments commitment in imparting quality education in academia. This encompasses a right balance between teaching and learning and very much inline with the mission and vision of the department. This newsletter will provide a glimpse of student achievement in academic year 2014-2015.

- P. VENUGOPAL RAO.

VISION :

To fulfill the needs of the industry and society through excellence in education and research in electrical engineering.

MISSION :

1. To produce globally competent engineers in Electrical and Electronics Engineering.
2. To promote scientific inclination and cultivate professional ethics
3. To serve organization and society as adaptable engineers, entrepreneurs or leaders

Program Educational Objectives (PEOs) in B.Tech in Electrical & Electronics Engg. course::

PEO1 : Choose their careers as practicing engineers ready for modern electrical power and energy industry.

PEO2 : Engage in lifelong learning, career enhancement and adapt to changing professional and societal needs

PEO3 : To produce graduates with perspective for environmental issues by building the awareness of green and sustainable energy technologies.

PEO4 : To produce graduates with problem solving culture through familiarization with the state-of-art facilities in Electrical and Electronics engineering laboratories.

Program Outcomes (POs) in B.Tech in Electrical & Electronics Engg. course :

Program Outcomes		Engineering Graduates will be able to
PO1	Engineering knowledge	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, an engineering sciences.
PO3	Design/development of solutions	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage	Create, select, and apply appropriate techniques, resources, and modern engineerin and IT tools including prediction and modeling complex engineering activities with an understanding of the limitations.
PO6	The engineer and society	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
PO9	Individual and team work	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

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PO11	Project management and finance	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

PROGRAM SPECIFIC OUTCOMES (PSOs) OF B.TECH IN ELECTRICAL & ELECTRONICS ENGG. COURSE:

PSO1	The Electrical and Electronics Engineering graduates are capable of applying the knowledge of mathematics and sciences in modern power industry.
PSO2	Analyze and design efficient systems to generate, transmit, distribute and utilize electrical energy to meet social needs using power electronic systems.
PSO3	Electrical Engineers are capable to apply principles of management and economics for providing better services to the society with the technical advancements in renewable and sustainable energy integration
PSO4	Practice professional ethics and work in a team and communicate to keep abreast of latest developments to achieve project objectives for the betterment of the society.

ASSOCIATION ACTIVITIES :

1. Inauguration
2. Debate on Current Affairs and Social Issues
3. Quiz
4. Seminar on "Modelling and simulation of the Wind energy electric conversion system to extract the maximum power from the wind using MATLAB"
5. Singing competition
6. Dancing competition
7. Electrical engineering awareness program, Guest lecture by P. Venugopal Rao, Prof. & HOD EEED
8. Teachers day celebrations
9. Project and poster presentations
10. Mock interviews

FACULTY PUBLICATIONS :

S. No.	Details	National / International	Total
1	Publications in Conference proceedings	26	26
2	Publications in refereed Journals	09	09
		Total	35

1. **G. Rajendar,** B. Jagadish Kumar ***"A Study of a DC-DC converter for LED Street Lighting with ZCT using single Auxiliary switch"*** in IEEE International conference on Electrical, Electronics, Signals, Communications and Optimization 24th-25th January, 2015 Visakhapatnam, India. (978-1-4799-7678-2/15/$31.00 ©2015 IEEE).
2. **G. Rajendar,** Basavaraja Banakara ***"New Algorithm for Capacitor Placement to improve Voltage stability Using L- Index Sensitivity Matrix"*** in International Conference on Engineering & Physical Science Feb 2015.
3. **G. Rajendar,** B. Jagadish Kumar ***"Cascaded Boost converter fed predicative current controlled three phase inverter with reduced THD"*** in IEEE 2nd International Conference on Knowledge collaboration in Engineering, ICKCE- Mar 2015.
4. **Namani Rakesh,** Venkata Madhavaram. T, K. Ajith, G. Rajendra Naik and **P. Nagarjun Reddy;** ***"A New Technique to Enhance Output Power from Solar PV Array under Different Partial Shaded Conditions";*** IEEE International Conference on Electron Devices and Solid State Circuits 2015, Singapore.
5. H. Ranjith Kumar, **K. Harish,** Dr. S. Srinivasa Rao, ***"Predictive Torque Controlled Induction Motor Drive with reduced Torque and Flux Ripple over DTC",*** IEEE International conference on Electrical, Electronics, Signals, Communications and Optimization 24th-25th January, 2015 Visakhapatnam, India. (978-1-4799-7678-2/15/$31.00 ©2015 IEEE).
6. B. Jagadish Kumar, H. Ranjith Kumar, **K. Harish,** G. Rajendar, ***"Cascaded Boost Converter fed Predictive Current Controlled Three Phase Inverter with reduced THD",*** IEEE International conference knowledge collaboration in engineering 27th-28th March, 2015 Coimbatore, India. (978-1-4799-8619-4/15/$31.00 ©2015 IEEE).

GUEST LECTURES :

1. Lecture by **SRI G. SUNIL KUMAR** on **WAVELET ANALYSIS USING MATLAB** on 13th march, 2015.
2. Lecture by **SRI K. HARISH** on **APPLICATIONS OF MATLAB IN POWER ELECTRONICS** on 14th march, 2015.
3. Lecture by **SRI H. RANJITH KUMAR** on **APPLICATIONS OF MATLAB IN ELECTRIDAL ENGINEERING** on 14th march, 2015.

WORKSHOPS ATTENDED :

1. **Prof. V. Ramaiah** and **Sri N. Rakesh** attended an FDP on **Entrepreneurship devolopment** at Organization DST, Govt. of India, Ministry of MSME, Govt. of India during 23rd feb to 7th march, 2015.

Details of FDPs/ STTPs / Workshops/ Conferences organized by the Department faculty:

S.No	Organized STTP/ FDP/ Workshop/ Conference	Title of STTP/ FDP/ Workshop/ Conference	Coordinators	Duration & Dates	No. of participants
1.	Workshop	Indian Power Sector Scenario	P. Nagarjuna Reddy	Two days 8th & 9th November, 2014	50

The Department of Electrical & Electronics Engineering, KITS, Warangal organized Two Day workshop on "Indian Power Sector Scenario" during 8th November 2014 to 9th November, 2014 with the aim of increasing awareness among research scholars and young faculty of Electrical Engineering.

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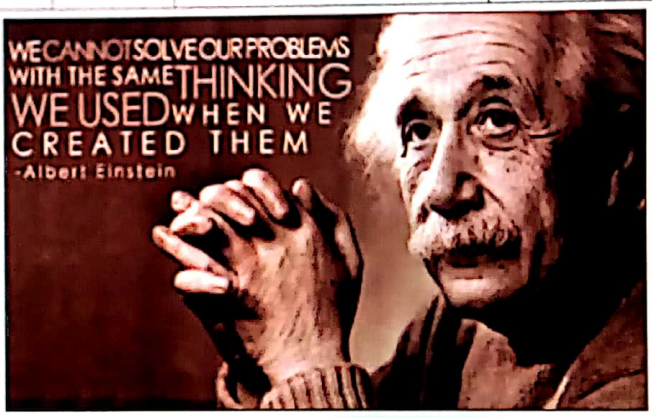
Electric Power generation in India is on a great rise with the advent of private sector participation in the generation sector but the supply-demand gap is still considerably high. The Government of India is keen on encouraging the industrialists and the researchers to improve the present power sector scenario aiming at higher reliability and efficiency.

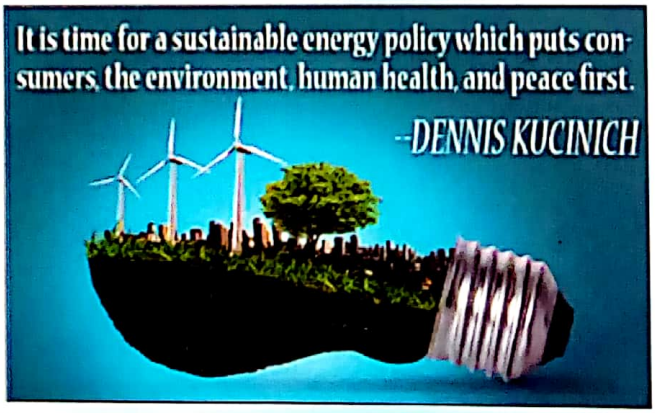
The workshop brochure is published across the nation over 400 Academic Institutions and Industries and received more than 150 applications out of which 55 applications are shortlisted. Outstation participants are provided accommodation in campus guest house from 7th November, 2014 to 10th November, 2014. Outstation Participants are also provided travelling allowances (TA).

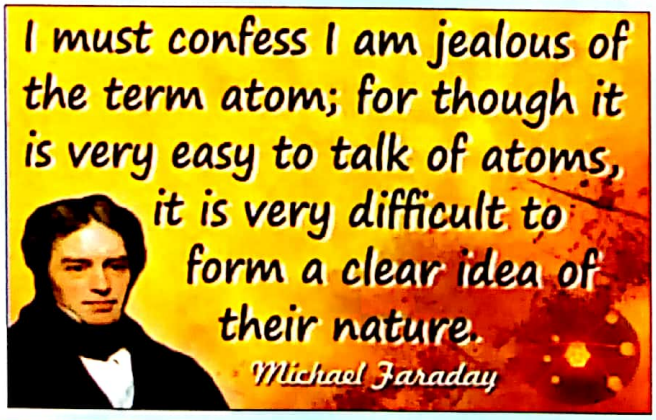
Two day workshop on Indian Power Sector Scenario was inaugurated by Prof. M. Sydulu, Professor, EED, NIT Warangal. The Inauguration is presided by Dr. K. Ashoka Reddy, Principal, KITS Warangal and graced by Prof. P.Venugopal Rao, Professor & HOD, EEED. A total of 350 members, Workshop Participants, faculty and heads of other departments were also present for inauguration.

Students Placements in On-Campus:

Sl.No.	Roll No.	Name	Selected for Company
1	11016T1205	Kandhukuri Laxmi Priya	TCS
2	11016T1212	Boddupati Mounika	TCS
3	11016T1221	Sudalala Spandana	TCS
4	11016T1227	Yamsani Pranusha	TCS
5	11016T1228	Churraabhilash	TCS
6	11016T1238	Doggala Madhulika	TCS
7	12016T1266L	Baswaraju Shruthi	TCS
8	11016T1209	Nagamalla Sneha	Sonata
9	11016T1249	Gatla Thriveni	Value Labs
10	11016T1228	Churra Abhilash	Novus Green
11	11016T1234	Chimpanna Sathyanarayana	Novus Green
12	11016T1259	Kalluri Obadhya John Raj	TCS (Off)
13	12016T1265L	Murala Aravind	Medha Servo Drives







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