



**Department of
Electrical & Electronics Engineering**
KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE
WARANGAL-15



5-Sept-2016

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Chief Editor Message :

With great pleasure and honor I write this foreward. Indeed this newsletter is a testament to the department's commitment in imparting quality education in academia. This encompasses a right balance between teaching & learning and very much in line with the mission and vision of the department. This newsletter will provide a glimpse of student achievement in academic year 2016-2017.

- **Dr. G. Ravi Kumar**

Vision & Mission of the Department:

Vision:

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

Mission :

- To produce globally competent engineers in electrical and electronics engineering.
- To promote scientific inclination and cultivate professional ethics.
- 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.

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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 engineering 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.



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PO8 Ethics

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

Individual and team
PO9 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.

Project management
PO11 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.

Analyze and design efficient systems to generate, transmit, distribute and utilize electrical energy to meet social needs using power electronic systems.

PSO2

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

PSO3

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.

PSO4

EEE Association details :

1. V. Karthikeya Durga Prasad (IV/IV) - Student President
2. P. Achalitha (IV/IV) - General Secretary
3. D. Varun (III/IV) - Joint Secretary
4. S. Abhinash (III/IV) - Joint Secretary
5. M. Priyanka (IV/IV) - Executive Member
6. A. Hemalatha (IV/IV) - Executive Member
7. S. Bharath Kumar (IV/IV) - Executive Member
8. Ch. Rohith (IV/IV) - Executive Member
9. K. Sai Prasad (III/IV) - Executive Member
10. P. Siri (III/IV) - Executive Member
11. R. Rahul Ganesh (III/IV) - Executive Member
12. M. Akshaja (III/IV) - Executive Member

Association Inaugural 2016 :



Student Activities :

1. Debate on women empowerment
2. Singing
3. Words building
4. Dancing
5. Group discussion
6. Extempore
7. Tech-quiz
8. Floor changing
9. Power point Presentations

Student Activities :

1. About 17 students have been placed in Tech Mahindra - IT Services, Outsourcing & IT Consulting in September, 2016.

Industrial Visit:

1. About 120 IV/IV B.Tech EEE students have been visited Diesel Loco shed at Kazipet, Warangal
2. About 120 IV/IV B.Tech EEE students have been visited Hydro Power plant at Srisaillam left bank, Srisaillam





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As a part of Industry-Institute interaction, Students of IV/IV B.Tech EEE(section-I&II) have visited Srisaillam Hydrel Power Plant(Left Bank 150*6 MW) on 11.11.2016.

The Tour started on 10.11.2016 at 6:00 AM by bus from Kazipet Railway Station. Students along with four faculty, Prof. V.Ramaiah, Smt P.Mamatha(Asst. Professor), Sri C.Pavan Kumar, (Asst.Professor) an Sri K.Harish (Asst.Professor) accompanied the tour.

The team reached Srisaillam by 10:00 PM and stayed in TSGENCO Guest House and started towards Srisaillam Hydrel Power Plant with a total capacity of 900 MW (150*6 each) with a special feature of reversible turbines for pumped storage provision.

The team visited the plant and related the theory and identified the operations of the following units:

1. Main Control Room (MCR) for understanding model/ functioning of Power Plant.
2. Unit Control Board(UCB) for identifying the solid state controls.
3. 220KV Switch Yard for being familiar with various switching mechanisms.
4. Turbine for being familiar with operation.
5. Generator for understanding the various specifications especially generating voltages and insulation.
6. Power Transformers for understanding the various specifications, cooling systems, etc.,
7. GIS for understanding the maintenance of Substations with SF6 gas.
8. Main feeders and transmission lines bifurcation towards various cities.

List of the selected students at campus :

Sl.No	Roll.No	Name of the student	Name of the Company
1.	13016T1219	K.Sandeep	Tech Mahindra
2.	13016T1222	V.Karthikya jaya durga	Tech Mahindra
3.	13016T1235	K.Sai phani balaji	Tech Mahindra
4.	13016T1241	C Akshitha	Tech Mahindra
5.	13016T1247	T.Ramyasree	Tech Mahindra
6.	13016T1248	C .Ankitha	Tech Mahindra
7.	13016T1256	A.Sai hemanth	Tech Mahindra
8.	13016T1268	V. Madhukar reddy	Tech Mahindra
9.	13016T1274	P.Bargav reddy	Tech Mahindra
10.	13016T1282	S.Bharath kumar	Tech Mahindra
11.	13016T1291	V.Sruthi	Tech Mahindra
12.	13016T1296	B.Srinivas bhardwaj	Tech Mahindra
13.	13016T1297	C.Sai ram reddy	Tech Mahindra
14.	13016T1299	B.Manjari reddy	Tech Mahindra
15.	13016T1304	P.Achalitha	Tech Mahindra
16.	13016T1315	P.Sarala	Tech Mahindra
17.	13016T1318	Syed Juveria Farheen	Tech Mahindra



UMSHODHINI'16

... Quest for Innovation



A National Level Students Technical Symposium

21-23 January, 2016

SUMSHODHINI'16



"SUMSHODHINI' 16" INAGURATION

For inauguration chief guest **Mani Kandan**, SBH General Manager, **Sri P. Narayana Reddy**, Treasurer , KITSW; Director **Dr. Y. Manohar**,; Principal Prof. **K. Guru Raj**; Convener Prof. **K. Sridhar**, Dean, Student Affairs; Coordinator Prof. **K. V. Raghu Babu**, Chairman, ISTE; Co-coordinator: **Smt. B. Rama Devi**, Faculty Advisor, ISTE; Student coordinator **Bhargav**; faculty, students, participants were presented.



"SUMSHODHINI' 16" CORE TEAM

EEED Events in SUMSHODHINI'16

Paper Presentation, WITRICITY, Poster Presentation, Project Presentation, TECHTRIX, TECH QUIZ, Spot Events

MATLAB Workshop (EEE Dept.) :

Dept. of EEE conducted workshop on MATLAB. In this workshop basic MATLAB programming concepts in MATLAB were explained. More than 150 members attended and acquired good practicing skills in MATLAB Programming.



MATLAB Workshop organized by EEE Dept.



Students Participating in Tech-QUIZ event during SUMSHODINI organized by EEED

SPOT PAINTING COMPETITION : The main theme of the painting competition is "WOMEN- REFLECTION OF OUR CULTURE". The participant should make out a painting based on the above theme. He/she can use any kind of painting techniques. Required materials should be brought by the candidate. Time limit is 45 minutes.



STREET ART : (Main theme-"CHALLENGES FACED BY TODAY'S WOMEN") Street art refers to performance art where artists render the designs on streets, sidewalks etc... The participant can use only chalk or chalk powder (can use different color chalks). Required materials should be brought by the candidate. Participant should follow the above theme.



POSTER PRESENTATIONS : The main theme of poster presentation is "WOMEN- EPITOME OF TRANSFORMATION". The Participant should design the poster according to the above theme.



VEGETABLE CARVING : Vegetable carving is the art of carving vegetables to form beautiful objects, such as flowers, birds etc. Required materials should be brought by the candidate. Time limit is 30 minutes.

