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Department of Electrical & Electronics Engineering

KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE
WARANGAL - 15

VOLUME - III
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April 10th, 2017

CHIEF EDITOR MESSAGE

With great pleasure and honour I write this foreword. Indeed, this newsletter has lot to look forward. I would like to offer a word of thanks to our readers, our contributors, and our editorial board for their support of the journal and its mission: to improve the quality of technical education to the students This newsletter will provide a glimpse of student achievement in academic year 2016-2017.

-V. RAMAIAH.

VISION & MISSION OF THE DEPARTMENT:

VISION

- To fulfil 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):

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): 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 analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and 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 modelling to 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.

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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.

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):

PSO1 The Electrical and Electronics Engineering graduates are capable of applying the knowledge of mathematics and sciences in modern power industry.

PSO2 Analyse 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.

Student Activities:

1. Inauguration
2. Debate on Current Affairs and Social Issues
3. Quiz
4. Singing Competition
5. Dancing Competition
6. Seminar on "Modelling and simulation using MATLAB
7. Singing Competition
8. Dancing Competition
9. Teachers Day Celebrations
10. Project and Poster Presentation
11. PPT presentation
12. Mock Interview

ASSOCIATION DETAILS:

1. President: D.Varun (IV/IV, B. Tech)
2. Vice president: M.Abhilash (IV/IV, B. Tech)
3. General secretory: S.Saicharan (IV/IV, B. Tech)
4. General secretory: R.Sriphani (IV/IV, B. Tech)
5. Joint secretory: V.Ratnamani (III/IV, B. Tech)
6. Joint secretory:V.Naveen (III/IV, B. Tech)
7. Executive members:V.Vineethreddy (III/IV, B. Tech)
8. Executive members: M.Sairatna (III/IV, B. Tech)

Students visits to Industries during 2016-17:

S.No.	Name of the Class	Visited Industry & Location	Dates	Purpose#
1.	III Year EEE – I & II	Kothagudem Thermal Power Station	18-03-2017	Industrial Visit
2.	III Year EEE – I & II	Srisailam Hydel Power Plant	10.11.2016 to 11.11.2016	Industrial tour
3.	III Year EEE – I &II	Mulkanoor Dairy Farm	03-11-2017	Industrial Visit
4.	III Year EEE – I & II	Kazipet Loco Shed	07-04-2017 04-08-2017	Industrial tour

SUMSHODHINI-17 (version 1.0):

The department of Electrical and Electronics Engineering, KITSW organized sumshodhini-17' (version 1.0), 10th National level Technical symposium in 2017 aimed to bring out the innovative and technical skills of the students during 16th to 18th February, 2017.

The symposium Boucher is published across the nation over 400 academic institutions and received more than 800 applications for various competitions (paper& poster presentation, Witricity, TechQuiz, Techzibits, Hobbiyist workshop). 400 applications in various competitions are shortlisted. Outstation participants are provided accommodation in campus guest house. 10th national level symposium, SUMSHODHINI-17'1.0 was inauguration is presided by Dr.Venkateshwar rao, Principal, KITS Warangal and graced by Prof.V.Ramaiah , HOD, EEED. A total of 400 members, Deans of various sections, heads and faculty of other departments were also present for inauguration. During the symposium a two day workshop is organized on "Introduction to HOBBIYIST workshop and LAB VIEW & its applications in engineering". All participants are provided working lunch, Tea & snacks during the workshop.

Technical events like Paper presentations, Poster presentations, Project presentation, Witrcity, Techquizand many more spot events are organized during the symposium. Workshop, WiTricity, Techquiz organized in association with ISTE KITSW SB. Technquiz is organized in association with KITSW. Valedictory session began with feedback from participants followed by coordinator report and principal address. Lastly, the participation certificates and prizes are distributed to participants and winners in various technical events

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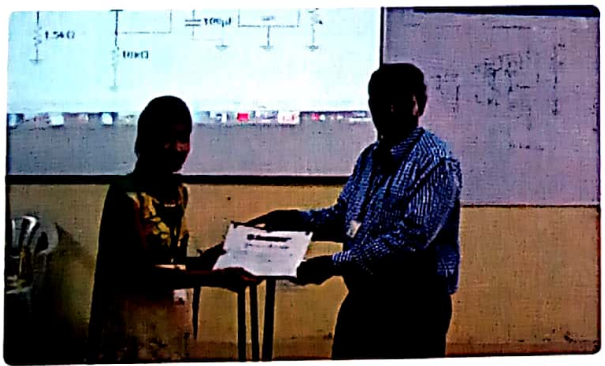
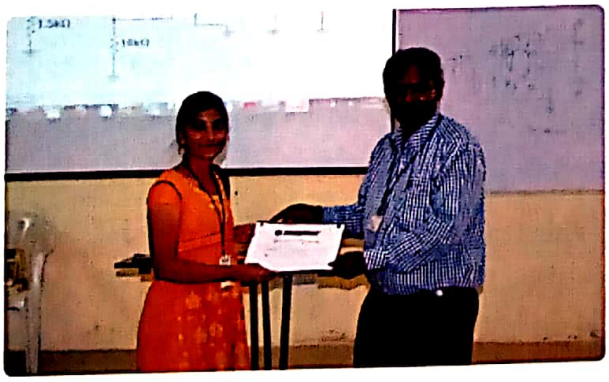
Workshop Inauguration by Dr.Y.Manohar, Director, G. Balajose, Consulting Engineer, General Electrical, Hyderabad, Head of the EEE Dept. Prof.V. Ramaiah.

Group Photograph with Workshop participant



Certificate distribution ceremony to the workshop parcipants by Prof. V. Ramaiah, HOD, EEED



Group Photo with HOD of EEE, Faculty Coordinators and Student coordinators along with workshop team

STTP/Conferences/Workshop/seminar/ symposium Attended by the Faculty

S. No	Name of the faculty	STTP/Conferences/ Workshops Attended	Duration		Host Department	Host Institution
			From	To		
1	V. Ramaiah	FDP (Distributed Generation and Renewable Integration: forecasting tools and EMS towards Smart Grid / Smart City paradigm)	21st November 2016	26th November 2016	EEE	KITS, Warangal
2	B. Jagadish Kumar	FDP (Research Methodology & Computational Techniques)	2nd February ,2017	2nd February,2017	EEE	KITS, Warangal
3	G. Rajendra Naik	Workshop (DSPEC on digital signal processer controlled power electronic control drives)	2nd February ,2017	2nd February,2017	EEE	KITS, Warangal
4	T. Swetha	Workshop (Effective Functioning of an Autonomous Institution)	21st November 2016	26th November 2016	EEE	KITS, Warangal
5	T. Swetha	Workshop (Effective Functioning of an Autonomous Institution)	2nd February ,2017	2nd February,2017	EEE	KITS, Warangal
6	P. Mamatha	Workshop (Advanced softwares for power system simulation)	2nd February ,2017	2nd February,2017	EEE	NIT Warangal
7	C. Pavan Kumar	FDP (Distributed Generation and Renewable Integration: forecasting tools and EMS towards Smart Grid / Smart City paradigm)	2nd February ,2017	2nd February,2017	National Instruments	NIT Warangal
8	C. Pavan Kumar	FDP (Global trenda in Renewable Energy systems and smart grids)	2nd February ,2017	2nd February,2017	National Instruments	KITS, Warangal
9	K. Ajith	Seminar (Engineering Education & Research)	2nd February ,2017	2nd February,2017	EEE	KITS, Warangal
10	K.Harish	Seminar (Engineering Education & Research)	2nd February ,2017	2nd February,2017	National Instruments	KITS, Warangal
11	V. Ramaiah	FDP (Global trenda in Renewable Energy systems and smart grids)	21st November 2016	26th November 2016	EEE	CVR College, Hyderabad
12	Dr.C. Venkatesh	Seminar (Engineering Education & Research)	2nd February ,2017	2nd February,2017	National Instruments	Hotel Ashoka, Hanmkonda

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13	M. Narasimha Rao	Seminar (Engineering Education & Research)	2nd February ,2017	2nd February,2017	National Instruments	Hotel Ashoka,Hanmkonda
14	B. Jagadish Kumar	FDP (Global trends in Renewable Energy systems and smart grids)	21st November 2016	26th November 2016	EEE	CVR College ,Hyderabad
15	G. Rajendra Naik	Seminar (Engineering Education & Research)	2nd February ,2017	2nd February,2017	National Instruments	Hotel Ashoka,Hanmkonda
16	K. Ajith	Seminar (Engineering Education & Research)	2nd February ,2017	2nd February,2017	National Instruments	Hotel Ashoka,Hanmkonda
17	G. Sunil Kumar	Seminar (Engineering Education & Research)	2nd February ,2017	2nd February,2017	National Instruments	Hotel Ashoka,Hanmkonda
18	T.Praveen Kumar	Seminar (Engineering Education & Research)	2nd February ,2017	2nd February,2017	National Instruments	Hotel Ashoka,Hanmkonda
19	M.Srinivas	Seminar (Engineering Education & Research)	2nd February ,2017	2nd February,2017	National Instruments	Hotel Ashoka, Hanmkonda
20	K.Harish	Seminar (Engineering Education & Research)	2nd February ,2017	2nd February,2017	National Instruments	Hotel Ashoka, Hanmkonda

Report on Industrial Visit to Mulkanoor Dairy Farm, Bricks Manufacturing Plant and Cotton Processing Unit on 04.03.2017:

To meet the requirements of the course "Rural Technology & Community Development", the students of III-Year B. Tech, Electrical & Electronics Engineering, visited – Mulkanoor Dairy Farm located at Mulkanoor, Bheemadevarapally Mandal, Karimnagar District.

1. Bricks Manufacturing Unit located at Husnabad, Karimnagar Dist. &
2. Cotton Processing Plant located at Husnabad, Karimnagar Dist.

A total strength of 38 including 36 students along with 2 faculty visited the above listed plants on 04.03.2017. These kind of visits help the students to gain awareness on the traditional aspects followed in rural areas.

We started our journey at 1:15 PM from KITSW campus via institution bus and reached mulkanoor dairy farm at around 2:00 PM