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Department of Electrical & Electronics Engineering

KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE
WARANGAL - 15

VOLUME - V
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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. QSeminar 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: **M. Sai Ratna**
2. Vice president: **V. Naveen**
3. General Secretory: **V. Ratnamani**
4. General Secretory:**Vemula Akhil**
5. Joint secretory: **Mohd Nehaz Hussain**
6. Joint secretory:**S. Shravya Reddy**
7. Treasurers:**D. Sai Chetan & B. Sarika**
8. Event Managers: **D. Gayathri, G.Akhil, G.Shiva Krishna, K.Sai Charan**

No. of students placed on campus:

S. No.	Name of the Student	Roll No.	Name of the Company
1	Avire Srinidhi	B15EE002	Wipro
2	Modem Shivani	B15EE003	TCS-Ninja, Wipro
3	Vadrevu Sai Akshitha	B15EE009	TCS-Ninja, Wipro
4	Supriya Katta	B15EE011	Cognizant
5	Goli Anirudh Reddy	B15EE014	TCS-Ninja
6	Maneeshchandra Akula	B15EE042	Cognizant
7	Kodakandla Roshini	B15EE043	TCS-Ninja
8	D Vineeth	B15EE049	Mphasis, TCS-Ninja
9	Nalla Akhil Reddy	B15EE062	TCS-Ninja
10	Shaik Reshma	B15EE066	HCL
11	Vaddepalli Naveen	B15EE068	HCL
12	Adluri Akshay	B15EE076	HCL, Cognizant
13	Srilekha Panjala	B15EE079	Cognizant
14	Karre Sree Teja	B15EE080	TCS-Ninja
15	Afreeda Shireen	B15EE085	Q-spiders
16	Jangeti Srujan Chandra	B15EE087	HCL, Amara Raja
17	P. Shivasai Siddhartha	B15EE090	Q-spiders
18	Bachu Raj Kumar	B15EE099	Mphasis
19	Vemula Akhil	B15EE101	HCL
20	G B Kartika Chary	B15EE112	TCS-Ninja
21	Bommervena Sai Krishna	B16EE133L	Hyundai Mobis
22	Riyazuddin Sheikh	B16EE139L	TATA Elxsi
23	Srinidhi Avire	B15EE002	Infosys
24	Vineeth Gouda	B15EE006	Infosys
25	Vadrevu Sai Akshitha	B15EE009	Infosys
26	Nithisha Thati	B15EE032	Infosys
27	Akula Maneesh Chandra	B15EE042	Infosys
28	Mukta Sai Ratna	B15EE051	Infosys
29	Kandukuri Rajshree	B15EE063	Infosys
30	Aluru Pavani	B15EE098	Infosys

Conducted Events:

Name of the Event	Retaliation/Virtual Aggression on Pulwama Carnage.
Date	22.08.2018
Theme	Association activity
No of Students attended	63
Description (250 - 500 words)	The students were given the task of justifying their opinion on the Retaliation or the virtual aggression of the people in the social media over Pulwama Carnage. The students took active participation and were given five minutes each to express their views. This tested their ability to

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	support their point of view over a situation and being able to handle the question poised on them about their opinion on the topic
Response	The response from the students was impressive and a total of 64 members of which 39 were from EEE I and 25 were from EEE II have attended the association took active participation and the main objective of organising the activity of cultivating spontaneity in answering the questionnaire was satisfactorily fulfilled
Organizing team	1 Md. Nehaz (Joint Secretary) 2 Shravya Reddy (Joint Secretary) 3 K. Sai Charan (Event Manager) 4 Syed Azam (Executive Member) 5 S. A. Srikar (Executive Member)

Organizing team interacting with EEE-I & EEE-II Students

STUDENT WORKSHOP

SUMSHODHINI 2K18 (4th& 5th Oct, 2018):

SUMSHIDHINI 2K18, the 3-day technical event conducted in our college has been an excellent platform for all the eager tech aspirants for showing out their inner talent and passion towards their respective engineering subject. The department of Electrical and Electronics Engineering has conducted various programs or events for the students and has given good knowledge and a great experience to those who have participated in them. The main attraction of all was the Mobile Making workshop which has been both fun and educational for those who have participated. Students who participated in the workshop gained knowledge on how to work with embedded systems, Arduino and other electronic modules. Along with this paper presentation and project presentation events were conducted which helped the students to present their ideas and their prototypes. Also, other fun events such as BE THE BEST ELECTRON and TECHZIBITS have provided a joyous experience foe everyone overall SUMSHODHINI 2K18 has been a blast. The best performers in each event were rewarded for their efforts and hard work. The event would not have been successful without the support of department teachers and students who have helped in organising it.

Participants during Mobile Making Workshop

EVENT	NUMBER OF PARTICIPANTS
Mobile Making Workshop	140
Technoclan	42
Be the Best Electron	60
Paper Presentation	36
Techzibits	32
Project Presentation	33
Poster Presentation	11

Group Photo with HOD of EEED, Faculty Coordinators and Mobile Making Workshop Tutor

Faculty Coordinators at Paper presentation

Faculty visit during Techzibits event

Certificate ceremony for the winners

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NEWS LETTER

Faculty as participants in Faculty development/training activities/STTPs/NPTEL/ MOOCs/SWAYAM:

Workshops/FDPS Attended by the Faculty during 2018-19		
Sl.No	Name of the Faculty	Name of the program attended
1.	Dr.C. Venkatesh	MOOCs Course - LifeSkills for Engineers (Level I), Commonwealth Education Media Centre for Asia (CEMCA) and University of Hyderabad, 15th May to 30th June 2018.
2.	M. Narasimha Rao	Attended an Five day FDP on "Resonant Converters and Applications" organized by Department of Electrical & Electronics Engineering, NIT Warangal, during 2nd July 2018- 6th July 2018.
3.	B. Jagadish Kumar	Attended an Five day Continuing Education Program on "Integration of green energy with Smart grid through IOT" organized by Department of Electrical& Electronics Engineering, Satybama Institute of Technology and science, Chennai, During 19th-23rd June,2018
4.	P. Nagarjuna Reddy	Online courses on Teaching and Learning in Engineering
		Online courses on Electric Vehicles (Part-I)
		Online courses on Effective Engineering Teaching in Practice
		Online courses on Life skills for Engineers (Level II)
		Online courses on Introduction to Smart Grid
5.	C. Pavan Kumar	Attended an Five day FDP on "Resonant Converters and Applications" organized by Department of Electrical & Electronics Engineering, NIT Warangal, during 2nd July 2018- 6th July 2018.
6.	Dr.M.Murali	Attended a one week short term course on "Design and Control of Photovoltaic Systems", 2nd – 6th July 2018, Department of Electrical Engineering, NIT Rourkela.

Prof. V. Ramaiah

Journals

1. D. Rakesh Chandra, M. Sailaja Kumari, M. Sydulu, **V.Ramaiah** " State Estimation Based Neural Network in Wind Speed Forecasting: A Non Iterative Approach," *Journal of Green Engineering*, Vol. 8, No. 3: pp.263-282, 2018.

G.Rajendar

Journals

2. **G.Rajendar** "Improvement of Voltage stability of IEEE 14 Bus using L-Index sensitivity Matrix" Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 07-Special Issue, 2018.

B. Jagadish Kumar

Journals

3. **B.Jagadish Kumar,** Dr. Basavaraja Banakara, "Certain investigations on multi input –SEPIC-RE boost-system with enhanced-response in International Journal of Engineering Technology (UAE),Volume:7, Issue:4 (2018) Online **ISSN:** 2227-524X,pp :2718-2721

Dr.G.Sudheer Kumar

Journals:

4. **Dr.G.Sudheer Kumar** and T Umasankar Patro, Efficient electromagnetic interference shielding and radar absorbing properties of ultrathin and flexible polymer-carbon nanotube composite films, Mater. Res. Express 2018, 5, 115304

Dr.D.RakeshChandra

Journals

5. **D. Rakesh Chandra**, M. Sailaja Kumari, M. Sydulu, F. Grimacciaand M. Mussetta " Demand Side Management For Wind Integrated Systems Using Genetic Algorithm," *Journal of Electrical Systems (JES)*, Vol. 14, No. 4: pp.217-230, 2018

FACULTY IN EDITORIAL BOARDS:

S. No	Name of the Faculty	Department	Title of the Journal	Designation in the editorial Board
1	Dr. B.Vijay Kumar	EEE	i-manager's Journal on Electrical Engineering	Editorial Member

Books/Monographs authored by the faculty:

S. No.	Name of the faculty	Title of the book	Details of publication
1.	Prof.V.Ramaiah	Electric drives Control of DC and AC drives	LAP LAMBERT, International Academic Publishing House ISBN:978-3-330-05343-4
2.	Dr.G. Rajender Naik,	"Signal Processing methods in ECG Analysis"	LAP LAMBERT, International Academic Publishing House, Germany. ISBN: 978-3-330-00384-2
		Sensorless Predictive Control of SVPWM VSI Fed Induction Motor	LAP LAMBERT, International Academic Publishing House, Germany. ISBN: 978-3-330-07522-1
3.	Dr.B.Vijay Kumar	Optimal Location and Sizing of UPFC To improve power system stability using Hybrid heuristic techniques	LAP LAMBERT, International Academic Publishing House, Germany. ISBN: 978-3-330-01786-3
4.	Dr.D.Rakesh Chandra	Wind Integration Studies in Power Systems Fore casting, Stability and Load Management Issues	LAP LAMBERT, International Academic Publishing House ISBN:978-3-330-04786-0
5.	Sri P.Nagarjuna Reddy	Electric drives Control of DC and AC drives	LAP LAMBERT, International Academic Publishing House ISBN: 978-3-330-05343-4
6.	Sri V.Srinivas	Electric drives Control of DC and AC drives	LAP LAMBERT, International Academic Publishing House ISBN:978-3-330-05343-4

STTP/Conferences/Workshop/Seminar/ Symposium attended by the Faculty:

S. No.	Name of the Faculty	STTP/FDP/ workshop # / Others	Details	Venue	Duration & Dates
1.	Sri M.Narasimha Rao	FDP	Resonant Converters and Applications	NIT Warangal	2nd July 2018 to 6th July 2018
2.	Sri C.Pavan Kumar	FDP	Resonant Converters and Applications	NIT Warangal	2nd July 2018 to 6th July 2018
3.	Sri K.Ajith	Short Term Course	One Week Short Term Course on Power Electronic System Design and Applications	Coimbatore Institute of Technology, Coimbatore	4th June, 2018 to 10th June 2018
4.	Sri G.Sunil Kumar	Short Term Course	One Week Short Term Course on Power Electronic System Design and Applications	Coimbatore Institute of Technology, Coimbatore	4th June, 2018 to 10th June 2018
		FDP	Programme on Solar PV Systems	GVPCE Vishakapatnam	25th June,2018 to 30th June, 2018