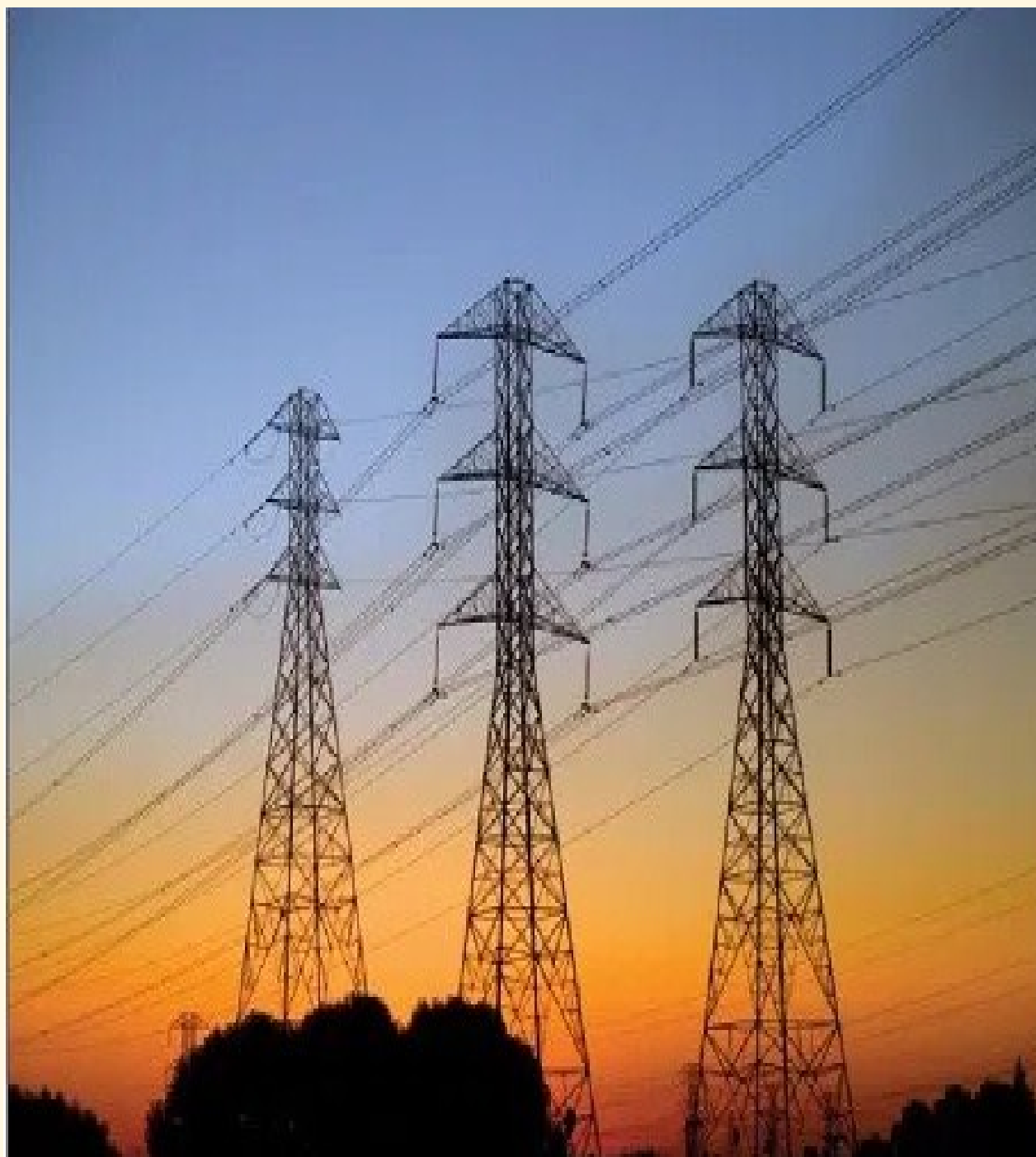




MESSENGER

Department of EEE, News Letter, VOLUME 3, ISSUE 1, MARCH 2020



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OUR GENERATOR (HEAD OF THE DEPARTMENT)



Name	: Dr.S. Jayalakshmi
Qualifications	: M.Tech, MBA, Ph.D
Total Experience	: 20 Years (Industry, Teaching, Research & Admn.)
Research	: 22 Papers published, presented in Journals & conferences
Memberships	: MISTE, MIAENG

The Department of **ELECTRICAL AND ELECTRONICS ENGINEERING** is headed by **Dr.S.Jayalakshmi**. She has 20 Years of experience in Teaching Field. She did her B.Tech in Electrical and Electronics Engineering from I.R.T.T, Erode, Tamilnadu, and M.Tech in Electrical Power Engineering from Jawaharlal Nehru Technological University, Hyderabad. She did her Masters in MBA at Bharathiar University, Coimbatore. She was awarded Ph.D from SCSVMV University Tamilnadu. She Published –20 International Journals. Under her leadership the Department is totally strengthened.

Message:

As an added feather to the department, we are privileged to publish the Third Edition of the newsletter “MESSENGER” in sharing the major achievements and activities of the faculty members, staff and students. On behalf of the department and on my own, I congratulate and appreciate the efforts made by all the members of our department to bring various activities and events it organizes had helped the students to build up their leadership qualities and social expressions.

Our Faculty members and Students are diverse and participate in many interdisciplinary initiatives. EEE has understood its role and continually upheld the values and principles of Electrical Engineering profession. It is indeed a pleasure to see the progress of Electrical Engineering Students at a time when the country is moving ahead with significant development plans in the Electrical Energy Sector.

Vision of the Institution

To emerge as a “Centre of **excellence**” offering high quality **Technical Education** and **Research** Opportunities to learners and also develop complete personality of graduates with good communication, discipline, lifelong learning, leadership qualities, ethics and global standards there by making them professionally deft and intellectually adept to contribute for the advancement of environment and society.

Mission of the Institution

- To impart high quality technical education by providing the state-of-the art infrastructure, core instruction and well experienced and qualified faculty.
- To develop highly motivated engineering professionals with good knowledge, communication skills, human and ethical values, requisite skills and competence.
- To produce highly successful graduates who can contribute to the profession to resolve the societal and environmental issues in the society.

Vision of the Department

To impart and empower the rural youth with excellent value based technical education, leadership qualities with a focus on higher education and transform them as successful professionals with research and entrepreneurial skills to cater the requirements of various stakeholders of the society.

Mission of the Department

- To yield qualified technocrats through state-of-art infrastructure in Electrical and Electronics Engineering.
- To acquire, incubate and sustain the professional learning process by collaborating with core sectors
- To awake young minds with human values and professional ethics to face the ever changing and challenging global environment with leadership capabilities.

Program Educational Objectives(PEOs)

- PEO 1** Apply analysis, design, optimization and implementation skills in order to formulate and solve Electrical and Electronics Engineering and multidisciplinary problems.
- PEO 2** Take up higher studies, research & development and other creative efforts in science & technology by utilizing modern engineering tools and software.
- PEO 3** Use their skills in ethical & professional manner to raise the satisfaction level of stake holders.
- PEO 4** Graduates will expertise in life-long learning effective communication skills, good leadership qualities, and professional development to accomplish the requirements of rapidly changing work environment.
- PEO 5** Utilize formal and casual learning opportunities to maintain and upgrade technical and professional growth.

Program Specific Outcomes(PSOs)

- PSO 1** To explore the conceptual knowledge and ideas for their professional development and to secure employment in the electric power related public and core industries
- PSO 2** To be able to utilize the scientific theories, innovations and methodologies to gain sufficient competences for solving the current and future energy problems universally.

Program Outcomes(POs)

PO.NO	PO STATEMENT
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, 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.
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

Events Organized in the Department

- II year Students went to Industrial Visit on 12-07-19 to 132/33KV Sub Station, Eluru
- Conducted Guest Lecture on “ Campus Energy Management Systems” on 31-07-19
- Organized a 5 Day National Faculty Development Program on “ Emerging Trends in Power systems and Industrial Drives” from 11-11-19 to 15-11-19
- Conducted IDEATHON-2K19 on 20-12-19
- Organized 15 days DST-ICPS sponsored Faculty Development Program on AI, ML and DL from 20-01-20 to 01-02-20

Few Glimpses of Various Activities



Student Activities

- Conducted “ Quiz program” on 09-08-19
- Conducted “Just-A-Minute” on 21-09-19
- Conducted “Technical Orators Hunt” on 21-11-19.
- Conducted “Circuit Building” on 30-11-19.
- Conducted “ Technical Seminar” on 05-12-19
- Conducted “View a Point” on 06-12-19
- Conducted “Business Quiz” on 07-12-19
- Conducted “BLITT-Technical Word Building” on 12-12-19

Few Glimpses of Various Activities



Faculty Publications

- Dr.S. Jayalakshmi Published a paper titled “ AN Automated plant irrigation using μC ” in International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-2, December 2019
- Dr.S. Jayalakshmi Published a paper titled “Optimal reactive power planning using Firefly Algorithm” in International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-2, December 2019
- Dr.J.Ranga Published a paper titled “ AN Automated plant irrigation using μC ” in International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-2, December 2019
- Dr.K R Vadivelu Published a paper titled “ AN Automated plant irrigation using μC ” in International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-2, December 2019
- Dr. K R Vadivelu published a paper titled “A novel approach for the fastest MPPT tracking algorithm for aPv array fed BLDC motor Driven air conditioning system” in “Indonesian journal of Electrical Engineering and Computer Science” Volume 18, No 2, 2019
- Dr.K R vadivelu Published a paper titled “Optimal reactive power planning using Firefly Algorithm” in International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-2, December 2019
- Mr.B.Ashok Kumar published a paper titled “Regulating Electricity Demand Management of Residential loads using Fuzzy Controller” in “International Journal of Management, Technology and Engineering” Volume 9, Issue 3, March 2019
- Mr.T.Prathap published a paper titled “An Overview of Power Quality Issues and FACTS Controllers for Enhancement of Power Quality” in “International Journal of Scientific Research and Review(IJSRR)” Volume 8, Issue 5, 2019
- Ms. Ch. Kowsthubha Published a paper titled “ AN Automated plant irrigation using μC ” in International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-2, December 2019

Academic Toppers

B.Tech II-I SEMESTER



91.25%

M POOJITHA
18ME1A0276



90%

Y D PRASANNA
18ME1A02A8

B.Tech III-I SEMESTER



90%

M THANUJA
17ME1A0297

B.Tech IV-I SEMESTER



92.5%

M SWAPNA
16ME1A0237



91.25%

G MOUNIKA
16ME1A0239

Placements

S No	Name of the Student	Roll Number	Name of the Company
1	A. PRASANTHKUMAR	16ME1A0204	TVS SUNDARAM
2	B.SHANMUK HA KUMAR	16ME1A0206	TVS SUNDARAM
3	M. YEDUKODALA RAO	16ME1A0238	TVS SUNDARAM
4	VEMANA. NAGA VENKATESH	16ME1A0271	TVS SUNDARAM
5	YAMANDRA KISHORE	16ME1A0276	TVS SUNDARAM
6	MENTHULA SAI GANESH	17ME5A0210	TVS SUNDARAM
7	PATIMEEDA.MADH UBABU	17ME5A0211	TVS SUNDARAM
8	YALLA JAGANSAI	17ME5A0223	TVS SUNDARAM
9	PRATHI NAGAVAMSI	17ME5A0224	TVS SUNDARAM
10	SURISSETTI PAVAN KISHORE	17ME5A0226	TVS SUNDARAM
11	ASHOKKUMAR V	17ME5A0229	TVS SUNDARAM
12	TAMANNA N.V.S.S.L GANESH	17ME5A0236	TVS SUNDARAM
13	CHILUKURI SUDHEER KUMAR	17ME5A0201	ACT CORP
14	CHINTALA THARUN SAI	17ME5A0202	ACT CORP
15	CHODIMELLA.AKHI L	17ME5A0203	ACT CORP
16	D V GOPALAKRISHNA	17ME5A0205	ACT CORP
17	K N D SUNIL KUMAR	17ME5A0207	ACT CORP
18	SAKIRAN KOLUSU	17ME5A0209	ACT CORP
19	SHAIK AHAMAD SHARUKH	17ME5A0212	ACT CORP
20	J ANILKUMAR	17ME5A0215	ACT CORP
21	VUDDISA DURGASAIRAM	17ME5A0220	ACT CORP
22	PONNADA VAMSI	17ME5A0222	ACT CORP
23	T G S N GUPTHA	17ME5A0227	ACT CORP
24	SRIRAMA JAGADEESH	17ME5A0230	ACT CORP
25	SURISSETTI PAVAN KISHORE	17ME5A0226	BUZIBRAINS
26	KOTA PHANIKUMAR	16ME1A0234	CTS
27	PAILA HARIKA	16ME1A0245	HEXAWARE
28	KAMA PRANEETH	16ME1A0230	L&T INFOTEC H
29	SHAIK JAFAR SADIQ	16ME1A0260	L&T INFOTEC H
30	V V ABHILASH	16ME1A0272	L&T INFOTEC H
31	BUSI SUJITH	16ME1A0213	Mphasis

Great Scientist

JAMES CLERK MAXWELL

James Clerk Maxwell FRSE FRS (13 June 1831 – 5 November 1879) was a Scottish scientist in the field of mathematical physics.^[2] His most notable achievement was to formulate the classical theory of electromagnetic radiation, bringing together for the first time electricity, magnetism, and light as different manifestations of the same phenomenon. Maxwell's equations for electromagnetism have been called the "second great unification in physics"^[3] after the first one realised by Isaac Newton.

With the publication of "A Dynamical Theory of the Electromagnetic Field" in 1865, Maxwell demonstrated that electric and magnetic fields travel through space as waves moving at the speed of light. He proposed that light is an undulation in the same medium that is the cause of electric and magnetic phenomena. The unification of light and electrical phenomena led his prediction of the existence of radio waves. Maxwell is also regarded as a founder of the modern field of electrical engineering.

He helped develop the Maxwell–Boltzmann distribution, a statistical means of describing aspects of the kinetic theory of gases. He is also known for presenting the first durable colour photograph in 1861 and for his foundational work on analysing the rigidity of rod-and-joint frameworks (trusses) like those in many bridges.

His discoveries helped usher in the era of modern physics, laying the foundation for such fields as special relativity and quantum mechanics. Many physicists regard Maxwell as the 19th-century scientist having the greatest influence on 20th-century physics. His contributions to the science are considered by many to be of the same

magnitude as those of Isaac Newton and Albert Einstein. In the millennium poll—a survey of the 100 most prominent physicists—Maxwell was voted the third greatest physicist of all time, behind only Newton and Einstein. On the centenary of Maxwell's birthday, Einstein described Maxwell's work as the "most profound and the most fruitful that physics has experienced since the time of Newton". Einstein, when he visited the University of Cambridge in 1922, was told by his host that he had done great things because he stood on Newton's shoulders; Einstein replied: "No I don't. I stand on the shoulders of Maxwell".



Born: 13 June 1831

Edinburgh, Scotland, United Kingdom

Died: 5 November 1879 (aged 48)

Cambridge, England, United Kingdom

List of Some Electrical Companies

• Design tribe	• C&S switchgear
• Megha engineering infrastructures ltd	• Avinio
• Maytas infra	• Aster
• Ind-barath power infra private Ltd	• Airliquide
• INDU projects	• GCK power and infrastructure
• Suryachakra	• Hyderabad consulting engineers
• ICOMM	• Narayana bhosekar electrical engineering and services
• KVK energy and Infrastructure limited	• Towererect
• Innocorp limited	• Kadevi engineering
• Natural bio energy limited	• NSL power
• Vasavi power services	• DSR power
• Meenakshi energy	• Saisudheer infra structures
• Gayatri projects	• Synergy infra
• SUJANA group	• NCL industries Limited
• Navyuga engineering company	• Madhucon projects
• GVPR	• RVK energy
• Nav bhara power private	• Ramky infra structures
• VRVC	• Raajratna energy hokidings
• Vijay electrical	• CII Toshiba plant systems and components
• Trident tech labs	• Shalivahana group
• Simon carves	• Greenko group
• Schneider Electrical	• Malaxmi energy ventures
• Reagal Beloit	• Rithwik projects private limited
• PEC electric	• Surana ventures
• Patel engineering	• Solar semiconductor industries
• NCC	• Titan energy
• Medha servo	• Nano bright solar
• KSK energy ventures	• Thrive energy
• Infotech Hyderabad	• ICOSA
• Intergraph	• GMR
• ITC	• GECE
• Endura	• GE
• Disha systems	• ESSES Eltech



Editors Note

Welcome to the Third Edition of Department Newsletter "MESSENGER." A news Letter inspires and motivates faculty and students, it reminds them of the zeal that they had once to do something extraordinary. We included all the significant news and events which are conducted under Student Association "VID-YOUTH" in our department. The placement scenario is also emphasized. Our students has shown a great interest in participating different events conducted and won prizes too, they are also added in our edition. We are overwhelmed by the response that we received from the faculty members and student coordinators, of our department.



Mr. B. Ashok Kumar
Assoc. Prof., EEE Dept.