

PROPULSION

No Resistance can drop our Potential

Departmental News Letter

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Issue-I



**DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING**

**DNR COLLEGE OF ENGINEERING &
TECHNOLOGY**

BALUSUMUDI, BHIMAVARAM-534202,
W. G. DIST., ANDHRA PRADESH.

VISSION

To be a recognized center for Electrical & Electronics Engineering, building ethical technocrats towards societal needs.

MISSION

DM1: Impart high quality technical education in a dynamic learning environment

DM2: Develop Industry collaborations towards holistic development and industry ready.

DM3: Motivate to practice latest technologies towards innovation, research& development.

PO'S

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 modeling 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.

PEO's

PEO1: Be Successful professionals in multidisciplinary team to solve real life problems with ethical values.

PEO2: Demonstrate knowledge, Skills and Competence to identify, comprehend and solve the industrial and societal problems.

PEO3: Adapt forever changing needs by collaborating with industries and academia for Professional development, Research and higher studies.

PSO's

PSO1: Design and provide solutions in Power Electronics and Power Systems.

PSO2: Demonstrate renewable energy technologies for the growing energy demand.

ABOUT DEPARTMENT

Electrical & Electronics Engineering is a subset of general engineering. Engineers use science and mathematical principles to solve technical problems. Since they often create new products to solve these problems, they are in high demand. Engineers are essentially inventors. By dreaming up ideas and turning them into a reality they push technology to its limits.

Electrical engineers are specialized engineers who work with Electrical devices. These may include motors, generators, power generation, transmission and distribution. Electrical Engineers design tools used in other engineering disciplines. As you can imagine, Electrical engineering is one of the broadest engineering specialties.

Electrical and Electronics Engineering is an engineering discipline that involves the application of principles of mechanics for analysis, design, manufacturing, and maintenance of mechanical systems. It requires a solid understanding of key concepts including Electrical Machines, Electrical measurements and Power systems. Electrical engineers use these principles and others in the design and analysis of electric vehicles, manufacturing plants, industrial equipment and machinery, medical devices and more.

ADMINISTRATOR MESSAGE



Sri. G SATYANARAYANA RAJU
**Hon. Secretary &
Correspondent DNR
Association**

“Education is the most powerful weapon which you can use to change the world.” Your power to choose the direction of your life allows you to reinvent yourself, to change your future, and to powerfully influence the rest. Leadership and learning are indispensable to each other. The only person who is educated is, the one who know how to learn and change. You are the "Change" to yourself and your future. You are welcome to DNR College Of Engineering & Technology, one of the most prestigious colleges for engineering and technology, which is affiliated to JNTUK, Kakinada. The

institution provides you the space to ignite your imagination and inspire you to love learning.

PRINCIPAL MESSAGE



Dr. M. Anjan Kumar
**M.E., Ph.D., MIGS, MIS, MISTE, MIRC
PRINCIPAL**

Technological enlargement in a country chiefly depends on how far the Engineers are going to put their knowledge into practice Strong elementary concepts with innovative mindset is the requirement of the present-day Engineers. Our main slogan in educating the budding Engineers is to lay a very strong foundation for the future circumstantial adaptation in the practical field Strengthening the fundamental concepts and exposure to the current development and future trend is our main aim in teaching in the Technological environment as there is a tremendous boom for the practical and research orient education in the future.

HOD MESSAGE



Dr. K.B.V.S.R. SUBRAHMANYAM,
Prof. & Head (EEE) & Dean (Examinations),

The DNR College Of Engineering & Technology is helping students to reshape their future to become a valuable asset for the nation. We are committed to academic excellence in the fields of Electrical and Electronics Engineering, leading to develop students through academia and industry linkages. The students of the Electrical and

Electronics Engineering are highly demanded by the recruiters of the top companies to enhance their employability skills through Industry Institute Collaboration. Our department is built on a foundation of knowledge, creativity, and collaboration. As we embark on this academic year, I encourage all of you to embrace the spirit of inquiry and discovery that defines our field. Whether you are a seasoned faculty member, a staff member contributing to the department's success, or a student eager to explore the possibilities within electrical and electronics engineering, know that your unique perspectives and contributions are valued.

As we navigate the challenges and opportunities that lie ahead, let us foster an environment of open communication, mutual respect, and continuous learning. The world of electrical and electronics engineering is rapidly evolving, and our collective efforts will play a crucial role in preparing our students for the future.

ACHIEVEMENTS – STUDENTS

1. K. Vijaya Lakshmi participated on Technical Seminar- PPT on BLDC Motors in SRKR College Of Engineering, Bhimavaram, AP she got First prize on 5th Feb 2023.
2. K. Sai Gayatri participated on Technical Seminar- PPT on BLDC Motors in SRKR College Of Engineering, Bhimavaram, AP she got First prize on 5th Feb 2023.
3. N. Allen Siril Research paper publication on sun tracking solar panels in dual axis based on sensors e-ISSN No 2319– 1775, Vol 12, Issue 1, Jan 2023.

ACHIEVEMENTS – FACULTY

1. Dr. KBVSR. Subramanyam Research paper publication on sun tracking solar panels in dual axis based on sensors e- ISSN No 2319– 1775, Vol 12, Issue 1, Jan 2023.

2. Dr. KBVSR. Subramanyam Research paper publication on Hardness and wear resist of AI shape memory Alloy Fabricated by Powder Metallurgy. E-ISSN No 2320– 7876, Vol 12, Issue 1, Jan 2023.
3. Dr. KBVSR. Subramanyam Certificate of Completion in online course on Electric Vehicle Design on May 2023.
4. Dr. KBVSR. Subramanyam Patent publication on Device and Method for Dehydration of Fish Pieces. The patent office journal No.33/2023 on 18th Aug 2023.

EVENTS ORGANIZED – FACULTY

1. A One Day Guest Lecture on “Latest Trends in the Power System Protection & Faults in Distribution Systems” Mr. Naanji Paramsetti, DEE, 220KV Undi Substation, Bhimavaram on 1st April 2023.



2. An Industrial visit on “220KV/132KV/33 KV, Grid Substation, Undi” Mr. S. Pradeep Kumar, AEE, Undi Substation, Bhimavaram on 3rd Mar 2023.



3. A One Day Guest Lecture on “Power System” Mr.S. Pradeep Kumar, AEE, Undi Substation, Bhimavaram on 12th April 2023.



4. A one-day Webinar on Virtual Labs Applications of Modern Tools to understand the performance of electrical machines practically Dr. M. Siva Kumar Professor & Mentor, EEE, Gudlavalluru Engineering College on 5th Jan 2023.



5. A Guest Lecture on Paragraph writing organized for developing written communication Mr. G Immanuel Paul Chandra, Assistant Professor, KGRL PG College, Bhimavaram. On 24th Jan 2023.
6. A one-day guest lecturer on Applications of matrices A.K. Chandra Sekhar, M.Phil., Assistant Professor College(A) on 17th May 2023.

EVENTS ATTENDED – STUDENTS

1. V. Dileep Kumar participated on Paper Presentation- PPT on IOT Based Substation Automation Pump in SR Engineering College, Warangal, TS on 10th Jan 2023.
2. T. Mallikarjun participated on Paper Presentation- PPT on IOT Based Substation Automation Pump in SR Engineering College, Warangal, TS on 10th Jan 2023.
3. K. Vijaya Lakshmi participated on Technical Seminar- PPT on BLDC Motors in SRKR College Of Engineering, Bhimavaram, AP on 5th Feb 2023
4. K. Sai Gayatri participated on Technical Seminar- PPT on BLDC Motors in SRKR College Of Engineering, Bhimavaram, AP on 5th Feb 2023
5. P. Suresh participated on Technical Seminar- PPT on Maximum power point Tracking systems in Solar PV Systems in BITE College of Engineering, Pennada, AP on 28th Apr 2023.

6. M. Kavya Sri participated on Technical Seminar- PPT on Maximum power point Tracking systems in Solar PV Systems in BITE College of Engineering, Pennada, AP on 28th Apr 2023

EVENTS ATTENDED – FACULTY

1. Dr. KBVSR. Subrahmanyam Attended on NPTEL faculty development program in Effective Engineering Teaching in Practice on Jan-Feb 2023.
2. M. Srinu Attended on NPTEL faculty development program in Control Engineering on Jan-April 2023.
3. Mr. K. Siva Shankar Asst. Professor attended National level FDP on Cloud Infrastructure (AWS) organized by JNTUK University College of engineering 21st Aug 2023 to 25th Aug 2023.