

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. A. Jeevan Kumar participated on paper presentation on IoT Based Substation Automation Pump in SR, Engineering College, Warangal, TS he got First prize on 15 th Jan 2022.
2. S. Karun Kiran participated on paper presentation on IoT Based Substation Automation Pump in SR, Engineering College, Warangal, TS he got First prize on 15 th Jan 2022.
3. I. Raju participated on poster presentation on Boat Identification using GPS and GSM Module in VITB Engineering College, Bhimavaram he got Second prize on 26th Mar 2022.
4. M. Arun Datta participated on poster presentation on Boat Identification using GPS and GSM Module in VITB Engineering College, Bhimavaram he got First prize on 10th Jun 2022.

5. P. N. Venkata Krishna participated on poster presentation on Smart Solar Water Pump with Flexible Timings in Bonam Venkata Chalamayya Institute of Technology and Science, AP he got Second prize on 12th May 2022.

ACHIEVEMENTS – FACULTY

1. Dr. KBVSR. Subrahmanyam Completed on NPTEL Online Certification Program in Recent Advances in Transmission Insulators on Jan-Feb 2022.
2. Dr. KBVSR. Subramanyam Publication on Comparative analysis of two different wire electrodes in a wire EDM machining using TOPSIS Technique International journal of mechanical engineering 0974-5823 vol.7 no.5 may,2022

EVENTS ORGANIZED – FACULTY

1. A One Day Guest Lecture on “Latest Advancements in 220KV Substation”, Mr.S. Pradeep Kumar, AEE, Undi Substation, Bhimavaram. on 16th Jun 2022
2. A One Day Guest Lecture on “IOT applications in distribution systems” Mr. K. Nagesh (Ph. D), Assoc. Prof & HOD, EEE Department on 21st May 2022.



3. Two days Workshops on Recent Trends in Electric Vehicles – Opportunities & Challenges Dr. T. Karthikeya Sharma, Asst. Prof, NIT, Tadepalligudem, Mr. D. Srinivas Reddy, Dr. Reddy s Consultancy, Bhimavaram on date 4th -5th Jan 2022.



4. A One Day Guest Lecture on “Data structures Using Data algorithm”, Dr. KSN Prasad Professor, Dept of CSE SASI Institute of Engineering. on 8th Jan 2022.
5. A Value-Added Course on Solar PV System Design and Site Surabhai Institute of Renewable energy sources on 15th -23rd March 2022.

EVENTS ATTENDED – STUDENTS

1. A. Jeevan Kumar participated on paper presentation on IoT Based Substation Automation Pump in SR, Engineering College, Warangal, TS on 15 th Jan 2022.
2. S. Karun Kiran participated on paper presentation on IoT Based Substation Automation Pump in SR, Engineering College, Warangal, TS on 15 th Jan 2022.
3. I. Raju participated on poster presentation on Boat Identification using GPS and GSM Module in VITB Engineering College, Bhimavaram on 26th Mar 2022.
4. Jeevan Kumar participated on poster presentation on Boat Identification using GPS and GSM Module in VITB Engineering College, Bhimavaram on 26th Mar 2022.

5. S. Karun Kiran participated on Freedom fest -2022 on Coding development work shop in SRKR Engineering College, Bhimavaram, on 11 th Mar 2022.
6. P. Harsha Vardan participated on Freedom fest -2022 on Coding development work shop in SRKR Engineering College, Bhimavaram, on 11 th Mar 2022.
7. Jeevan Kumar participated on Freedom fest -2022 on Coding development work shop in SRKR Engineering College, Bhimavaram, on 11 th Mar 2022.
8. Raju participated on Freedom fest -2022 on Coding development work shop in SRKR Engineering College, Bhimavaram, on 11 th Mar 2022.
9. K. Ruthin participated on poster presentation on Boat Identification using GPS and GSM Module in VITB Engineering College, Bhimavaram on 10th Jun 2022.
10. M. Arun Datta participated on poster presentation on Boat Identification using GPS and GSM Module in VITB Engineering College, Bhimavaram on 10th Jun 2022.

