

PROPULSION

No Resistance can drop our Potential

Departmental News Letter

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**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. G. Ramu participated on poster presentation on Boat identification using GPS and GSM Module in VITB Engineering College, Bhimavaram he got First prize on 10th Jul 2020.
2. N. Sowjanya is participated on Poster presentation on Smart Solar Water Pump with Flexible Timing in Bonam Venkata chalamayya institute of technology and science Engineering College she got second prize on 12th May 2020.
3. N. Subhash is participated on Technical Seminar on BLDC Motor in SRKR college of Engineering, Bhimavaram he got First prize on 5th Feb 2020.
4. K. Balaji is participated on Technical Seminar on BLDC Motor in SRKR college of Engineering, Bhimavaram he got first prize on 5th Feb 2020.
5. B. Kalyan Kumar Certificate of excellence in Technical Seminar participated in Gudlavalleru College of engineering, Gudlavalleru on 10th Jan 2020.
6. Jevan Kumar Certificate of excellence on Technical Seminar participated in Gudlavalleru College of engineering, Gudlavalleru on 10th Jan -2020.
7. Bosetti Sai Sunil participated Internship Program on

Telecom Technologies Bsnl Hyderabad On 20th May 2020 to 1st Jun 2020.

8. D.Saiganesh Internship Program Telecom on Technologies Bsnl Hyderabad on 20th May 2020 to 1st Jun 2020.
9. G. Pavan Manikanta Internship Program on Telecom Technologies Bsnl Hyderabad on 20th May 2020 to 01st Jun 2020.
10. J. Naga Venkata Sai Karthik Internship Program on Python Programming Cloud Sales Internships Hyderabad on 4th Jun 2020 to 18th Jun 2020.
11. N. Sita Rama Krishna Internship Program on Python Programming Cloud Sales Internships Hyderabad on 4th Jun 2020 to 18th Jun 2020.
12. N. Subhash Internship Program on Python Programming Cloud Sales Internships Hyderabad on 4th Jun 2020 to 18th Jun 2020.

ACHIEVEMENTS – FACULTY

1. M. Srinu published a Research paper on IOT Based Smart Feeder Protection and Monitoring System name of the journal in international journal of innovative Technologies ISSN/ISSN number 2321-8665, issue 01, pages: 78-79 volume /month 08th June 2020.
2. P. Nagaraju published a Research paper on Smart Solar Water Pump with Flexible Timing name of the journal in international jour journal of innovative Technologies ISSN/ISSN number 2321-8665, issue 01, pages: 64-65 volume /month 08th June 2020.
3. D. Joseph Kumar published a Research paper on IOT BASED Substation Automation name of the journal in international jour journal of innovative Technologies ISSN/ISSN number 2321-8665, issue 01, pages :89-91 volume /month 08th June 2020.
4. S. Rajesh Kumar published a Research paper on Smart Renewable Energy Management Systems name of the journal in international jour journal of innovative Technologies ISSN/ISSN number 2321-8665, issue 01, pages: 91-92 volume /month 08th June 2020.
5. G.N.D. Srinivas published a Research paper on Automatic Power Factor Correction and Monitoring System name of the journal in international jour journal of innovative Technologies ISSN/ISSN number 2321-

8665, issue 01, pages: 78-79 volume /month 08th June 2020

EVENTS ORGANIZED – STUDENTS

1. Two days workshop organized on PLC by Mr.P. Srinivas Rao Chinmaya Micro Technologies, Chennai, on 30th Dec 2019 to 11th Jan 2020.



2. One day industrial visit on vijeswaram gas power plant organized by M Chitti babu General Manager Vijeswaram on 07th Feb 2020.



1. One day industrial visit on 220kv/132kv/33kv substation organized by M. Pradeep Kumar AEE on 27th Feb 2020.



2. One day guest lecture on” Application of power Electronics Converters in Power Generation by Mr. G. Vijay Kumar Execute Engineer APGENCO Ibrahimpatnam Vijayawada, on 12th Feb 2020.



3. One day programmer on Training on Emotional Intelligence training program conducted by M. Srinu Asst. professor DNR Engineering College on 2nd Feb 2020.



6. One day programmer on Training on Communication skills training program organized by M. Joseph Kumar Asst. Professor on 16th Feb 2020

EVENTS ATTENDED – STUDENTS

1. M. Rama Kishore participated on Poster presentation on Boat identification using GPS and GSM Module in VITB Engineering College, Bhimavaram on 10th June 2020.
2. G. Ramu is participated on Poster presentation was Boat identification using GPS and GSM Module in VITB Engineering College, Bhimavaram on 10th June 2020
3. SK. Khadar Valli participated on paper presentation on Boat Identification using GPS and GSM Module in SR Engineering Warangal on 10th Jan 2020.
4. B. Kalyan Kumar participated on paper presentation On IOT Based Substation Automatic Pump in SR Engineering Warangal on 10th Jan 2020.
5. N. Sowjanya participated on Poster presentation on Smart Solar Water Pump with Flexible Timing in Bonam Venkata chalamayya institute of technology and science Engineering College on 12th May 2020.

6. J. Durga prasad participated on Poster presentation on Smart Solar Water pump with Flexible Timing in Bonam Venkata chalamayya institute of technology and science Engineering College on 12th May 2020.
7. K. Balaji participated on Technical Seminar on BLDC Motor in SRKR college of Engineering Bhimavaram on 05th Feb 2020.
8. M. Naga babu participated on Poster presentation on IOT based smart grid in Adithya College of engineering college, Surampalam on 16th Feb 2020.
9. V. Sai Teja participated on Poster presentation on IOT based smart grid in Adithya College of engineering college, surampalam on 16th Feb 2020.
10. T. Surendra Kumar on Technical Seminar on maximum power point tracking systems solar PV system in BITE college of Engineering, Pennada on 28th April 2020.
11. N. Subhash participated on Technical Seminar on BLDC Motor in SRKR college of Engineering Bhimavaram on 05th Feb 2020.
12. P. Tejo Murthy participated on technical seminar on solar water pump on SITE Engineering College Narasapuram on 24th Feb 2020

EVENTS ATTENDED – FACULTY

1. G. Saibaba Attended faculty development program on Technological Advances in Power Switching Converters for Renewable Energy Sources and Fuel Cell Technology for E vehicles in Bapatla Engineering College Bapatla on 1 st Mar 2020 to 05th Mar 2020.
2. K. Namrutha Attended faculty development program on Electrical Paradigm Shift to Cyber Physical Systems and Contemporary Research in Electrical and Electronics Engineering Saranathan College of Engineering Panjappur, Tiruchirappalli on 05th Mar 2020 to 15th Mar 2020.
3. S. Rajesh Attended faculty development program on Research Opportunities in Electrical Engineering and its Applications P.S.R. Engineering College Sivakasi on 18th

May 2020 to 23h May 2020.

4. G.N.D. Srinivas Attended faculty development program on Electric Power Grid Modernization Trends, Challenges and Opportunities KKR & KSR Institute of Technology and Sciences Guntur on 09th June 2020 to 13th June 2020.
5. D. Joseph Kumar Attended faculty development program on Electric Power Grid Modernization Trends, Challenges and Opportunities KKR & KSR Institute of Technology and Sciences Guntur on 09th June 2020 to 13th June 2020.
6. D. Joseph Kumar Attended faculty development program on Artificial Intelligence, Machine Learning, Internet of Things & Big Data Applications in Power Electronics and its Allied Areas Gokaraju Ranga Raju Institute of Engineering and Technology Hyderabad on 1st June 2020 to 6 th to June 2020.
7. P. Nagaraju Attended faculty development program on Recent Trends in Electrical Engineering Vishnu Institute of Technology Bhimavaram on 8th June 2020 to 12th June 2020.
8. G.N.D. Srinivas Attended faculty development program on Recent Trends in Electrical Engineering Vishnu Institute of Technology

