

# **D.N.R. COLLEGE OF ENGINEERING & TECHNOLOGY**

Approved by AICTE-New Delhi, Permanently Affiliated to JNTUK-Kakinada

Accredited by NAAC at B++ Grade, Balusumudi, Bhimavaram-2



## **DEPARTMENT OF CIVIL ENGINEERING**

### **NIRMAN**

### **NEWS LETTER**

### **VOLUME 1**

**JANUARY 2022**



- **Achievements – Faculty**
- **Events organized – Students**
- **Events Attended – Faculty**
- **MOU's**

### EDITORIAL BOARD

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Mr. M V Krishna, M. Tech

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### CONTACT US

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### VISSION

To be a recognized center of excellence for providing high quality civil Engineering education.

### MISSION

**DM1:** To provide time-trusted technical education to serve Industry needs

**DM2:** To provide State-of-the-art infrastructure and encourage logical thinking to face emerging challenges.

**DM3:** To organize training and workshops with an emphasis on structural engineering.

**DM4:** To involve in activities for overall development of stake holders with collaborations.

### 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:

Apply civil engineering fundamentals to provide solutions and successful profession and/or higher education.

#### PEO2:

Use modern engineering tools for planning, design, execution and maintenance of works with sustainable development in the chosen profession.

**PEO3:**

Exhibit professional knowledge, ethics, communication and managerial skills, teamwork, social responsibility and adapt to current trends.

**PSO's**

**PSO1:** To design and execute quality construction work.

**PSO2:** Use STAAD. Pro and ETABS for analyzing Structures.

**ABOUT DEPARTMENT**

The Department of Civil Engineering at DNR CET was established in 2010. The department offers Undergraduate course B. Tech with 120 seats and also offers Postgraduate course M. Tech in STRUCTURAL ENGINEERING with 18 seats. The Department has highly qualified and experienced faculty and special equipped laboratory. The department is very much likely to offer services to students not only through curriculum but also enriching their knowledge through additional Program's regarding their career development.

## 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. S. NAGESWARA RAJU**

Prof. & HoD (CIVIL)

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 Civil Engineering, leading to develop students through academia and industry linkages. The students of the Civil 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 Civil 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 Civil Engineering is rapidly evolving, and our collective efforts will play a crucial role in preparing our students for the future.



## **Achievements – Faculty**

1. R. Ramya swetha published a Research paper on Behaviour of self-Compacting concrete using rice husk ash and sugar cane bagasse ash as partial replacement of cement for M20 / The Journal of Oriental Research , Madras ISBN/ISS N Number 0022-3301, 2021.

## **Events organized – Students**

1. One day Seminar on Preparation of Geological sections by Dr. N. Victor Babu, Andhra University, on 29-07-2021.
2. One day Seminar on WHO regulations influence on the EIA by Dr. P. Jyosthna Devi GVPDCE, Vizag, on 19-08-2021.
3. One day programme on Drag and Lift-Magnus effect by M v Krishna Babu, Asst Professor, Anurag university, on 02-09-2021.
4. One week training programme on Geo spatial mapping for civil engineering by Mr. Prem Babu, Unique Surveying Solutions TS, Vijayawada, on 23-11-2021.
5. One day NPTEL Lecture on Flow nets, characteristics, and nets by Prof. Baleshwar Singh, IIT Guwahati, on 19-10-2021.
6. One day NPTEL Lecture on Seismic Refraction method by Dr Abhishek kumar, IIT Guwahati, on 14-09-2021.

## **Events Attended – Faculty**

1. PJD Anjaneyulu attended faculty development program on application of remote sensing and GIS in environmental management at Vishnu college of engineering bhimavaram, on 14-12-2021 to 16-12-2021.
2. N. John Austeen attended faculty development program on application of remote sensing and gis in environmental management at vishnu college of engineering bhimavaram, on 14-12-2021 to 16-12-2021.
3. S.V. Krishnam raju attended faculty development program on internet of things with machine learning and artificial intelligence towards advanced applications at national institute of technology warangal, on 06-12-2021 to 10-12-2021.
4. R. Ramya swetha attended faculty development program on internet of things with machine learning and artificial intelligence towards advanced applications at national institute of technology warangal, on 06-12-2021 to 10-12-2021.
5. M.l. Kumar attended faculty development program on application of remote sensing and gis in environmental management at vishnu college of engineering bhimavaram, on 14-12-2021 to 16-12-2021.

6. M. Ramya kameswari attended faculty development program on application of remote sensing and gis in environmental management at vishnu college of engineering bhimavaram, on 14-12-2021 to 16-12-2021.
7. P. Vijay kumar attended faculty development program on application of remote sensing and gis in environmental management at vishnu college of engineering bhimavaram, on 14-12-2021 to 16-12-2021.
8. M.K.M.V. Ratnam attended faculty development program on internet of things with machine learning and artificial intelligence towards advanced applications at national institute of technology warangal, on 06-12-2021 to 10-12-2021.
9. M. Venkata krishna attended faculty development program on application of remote sensing and gis in environmental management at vishnu college of engineering bhimavaram, on 14-12-2021 to 16-12-2021.

## **MOU's**

1. Auto desk design labs had an MOU for 4 years with Department of Civil Engineering from 2020 to 2024.
2. BPR Consultancy services had an MOU for 3 years with Department of Civil Engineering from 2021 to 2024.