

Resource Persons:

The sessions will be handled by distinguished resource persons from IITs, NITs, IIITs, JNTUK, and other premier institutions, ensuring a rich academic experience and practical exposure for all participants.

Eligibility:

This course is open to all the PG Students, Research Scholars and Faculty members from AICTE approved institutions. Certificate will be issued upon successful completion of FDP.

Registration fee: NIL

Registration link:

<https://sites.google.com/jntuk.edu.in/fdp4cet-36>



Confirmation of Participation:

Upon registration, confirmation will be sent via email to selected participants by 13th June 2026.

Organizing Committee:

All faculty of Civil Department, SRGEC

For any further query, please contact:

Mr. Ch Naga Bharath, Co- Coordinator

Mobile: 8106111138

Chief Patrons:

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Hon'ble Vice Chancellor, JNTUK-Kakinada

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Dr. M. Kamaraju,
Director – AS&A, SRGEC

Head of the Department:

Dr A. H. L. Swaroop,
Associate Professor, CE, SRGEC

Co-Coordinator:

Mr. Ch Naga Bharath,
Assistant Professor, CE, SRGEC

One Week Offline

Faculty Development Programme (FDP)

on

**“Advanced Soil Stabilization Techniques
for Marine and Expansive Clays using
Sustainable Materials and Machine
Learning Approaches”**

15th to 19th JUNE , 2026

Organized by

Directorate of IQAC & Capacity Buiding

In Collaboration with

**Dept. of Civil, UCEK, JNTUK Kakinada &
Department of Civil Engineering
SRGEC, Gudlavalleru**



Coordinators:

Prof. G. V. R. Prasada Raju

Senior Professor of Civil Engineering, UCE, JNTUK
Ph. No. 9618533555

Dr. Phani Kumar. V

Associate Professor of Civil Engineering, SRGEC
Ph. No. 9885606107

Venue

Seshadri Rao Gudlavalleru Engineering College

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
(Sponsored by A.A.N.M & V.V.R.S.R Educational Society, Gudlavalleru)

APPROVED BY AICTE, NEW DELHI, RECOGNISED BY A.P. STATE GOVT. &
ACCREDITED BY NAAC WITH "A+" GRADE

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About JNTUK:

Jawaharlal Nehru Technological University Kakinada (JNTUK) is one of the premier universities in India dedicated to engineering and technological education. Established in 1946 as the College of Engineering, it became an autonomous university in 2008. Located in Kakinada, Andhra Pradesh, JNTUK has consistently maintained high academic standards and has been a beacon for technical excellence and innovation. The University offers a wide range of undergraduate, postgraduate, and doctoral programs in Engineering, Technology, Management, and Sciences. Known for its emphasis on research and industry collaboration, JNTUK fosters a vibrant academic environment, encouraging innovation, creativity, and critical thinking. It is recognized by UGC and accredited by NAAC with A⁺ grade with a strong commitment to quality education and holistic development of students and faculty.

About College:

Seshadri Rao Gudlavalleru Engineering College (SRGEC), an autonomous institution since 2014 was established in 1998 by AANM & VVRSR Educational Society, Gudlavalleru. This institution is permanently affiliated to JNTUK, Kakinada and accredited by NAAC with A+ Grade with CGPA of 3.46 on 4 point scale for five years from 2024. The UG B.Tech programs in CE, EEE, ME, ECE, CSE & IT have been Accredited by National Board of Accreditation (NBA), New Delhi under Tier-I. Departments of CE, EEE, ME, ECE & CSE were recognized as Research Centers of JNTUK from the academic year 2014-15. College is offering UG – B.Tech Programs in CE, EEE, ME, ECE, CSE, IT, CSE(AI&ML), AI&DS, and IoT, PG–M.Tech programs with specializations of SE, PEED, MD, VLSID & ES, CSE (AI&ML) and PG–MBA

program with an total intake of 1590. The College is equipped with State of the Art Laboratories, a resourceful Central Library and Information Centre and Skill Centers. SRGEC, located in Gudlavalleru, Krishna District, Andhra Pradesh, is situated on the Gudlavalleru – Gudivada – Machilipatnam route and is well-connected by road and rail.

About Civil Engineering Department:

The Department was started in the year 2009 and has been offering a full time, four year B.Tech. Programme in “Civil Engineering”, and a two year M. Tech. Programme in “Structural Engineering”. The department has been successful in establishing well equipped laboratories and infrastructure to promote teaching – learning as well as **R&D and consultancy**. The department has established **Water Environment and Land (WEL)** to conduct Research & Development activities in the fields of water and land resource inventory, mapping, monitoring and management of environment and ecosystems in the region and also Disaster Management. Further, the department is endowed with well-equipped laboratories, library, qualified & dedicated faculty and technically sound supporting staff. The department is offering consultancy services in designing, material / soil testing, surveying etc. It is continuously striving to impart quality education and enhancing competitive spirit amongst the students for academic excellence. CE department has been recognized as Research Centre by JNTUK, Kakinada.

About the FDP:

The proposed Faculty Development Programme (FDP) aims to provide in-depth knowledge on the behavior and stabilization of marine and expansive clay soils, which pose significant challenges in geotechnical engineering. The program covers conventional and advanced stabilization techniques

using sustainable materials such as lime, cement, fly ash, stone dust, and chemical additives. It also emphasizes laboratory and field evaluation methods for assessing soil improvement. In addition, the FDP introduces participants to emerging machine learning approaches for predicting soil strength and deformation characteristics. The programme is designed to enhance teaching, research, and consultancy skills of faculty members and promote sustainable and innovative ground improvement practices.

Course Outcomes:

After completion of FDP, participants will be able to:

- Explain the engineering behavior and challenges of marine and expansive clay soils.
- Apply appropriate conventional and advanced stabilization techniques using sustainable materials.
- Conduct and interpret laboratory and field tests for evaluating stabilized soil properties.
- Analyse soil behavior using machine learning models for predicting strength and deformation characteristics.

Resource Persons:

Prof. M. R. Madhav, *Retd. Prof. IIT Kanpur*

Prof. Arif Ali Baig Moghal, *NIT Warangal*

Prof. B. R. Phani Kumar, *SRKREC Bhimavaram*

Dr. M. Rama Rao, *SITE Tadepalligudem*

Dr. K. Venkata Uday, *IIT Mandi*

Dr. Ashutosh Kumar, *IIT Mandi*

Dr. Vinod Kumar. A, *NITTT&R Chennai*

Dr. P. V. S. J. Yeswanth, *VIT Bhimavaram*

A. Madan Kumar, *Kellar India, Chennai*

Srinivasa Rao. G, *SAIPEM India Pvt Ltd, Chennai*