



Estd.1995

# VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous, ISO 9001:2015 & QS I-Gauge Diamond Rated Institute, Accredited by NAAC with 'A++' Grade  
NBA Accreditation for B.Tech. CE, EEE, ME, ECE, CSE, EIE, IT Programmes  
Approved by AICTE, New Delhi, Affiliated to JNTUH, NIRF 135<sup>th</sup> Rank in Engineering Category  
Recognized as "College with Potential for Excellence" by UGC  
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## DEPARTMENT OF CIVIL ENGINEERING M. Tech. STRUCTURAL ENGINEERING

### Program Education Objectives (PEOs)

- I. To provide proficiency in the basic principles and advanced courses of technology in Structural Engineering so that students are able to formulate, analyse and solve the societal problems for sustainable development related to structural Engineering.
- II. To expose the students to the latest innovations and trends with a view to inculcate strong research orientation in structural engineering as well as in multidisciplinary streams.
- III. To produce Structural Engineers who integrate and build on the program's core curricular concepts in the pursuit of professional leadership, teamwork, life-long learning, and successful career advancement.

### Program Outcomes (POs)

- PO-1:** An ability to independently carryout research/investigation and development work to solve practical problems.
- PO-2:** An ability to write and present a substantial technical report/document.
- PO-3:** Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.
- PO-4:** To motivate the graduate students to address the societal needs by interdisciplinary approach through advanced courses.
- PO-5:** To enrich the graduate students to get hands on training on latest equipment / software to be industry ready / pursue advanced research.
- PO-6:** To inculcate ethical practices and to establish understanding of professionalism, safety, sustainability, their duties, and contribution to the society.

### **Program Specific Outcomes (PSOs):**

Students will be able to:

- I. To expose the graduate students to advanced courses in Analysis, and Design of RC, PSC and Steel structures as per the latest design codes, current national and international scenario on Structural Engineering.
- II. To motivate the graduate students to address the societal needs by interdisciplinary approach through advanced courses such as Finite Element Analysis, Plates & Shell structures, Structural Dynamics, Soil Dynamics, and allied courses.
- III. To enrich the graduate students to get hands on training on latest equipment / software to be industry ready / pursue advanced research.