



## DEPARTMENT OF CIVIL ENGINEERING

JNTUH COLLEGE OF ENGINEERING,  
KUKATPALLY, HYDERABAD

INFORMATION BROUCHER 1965-2019



## Vision of the Institution

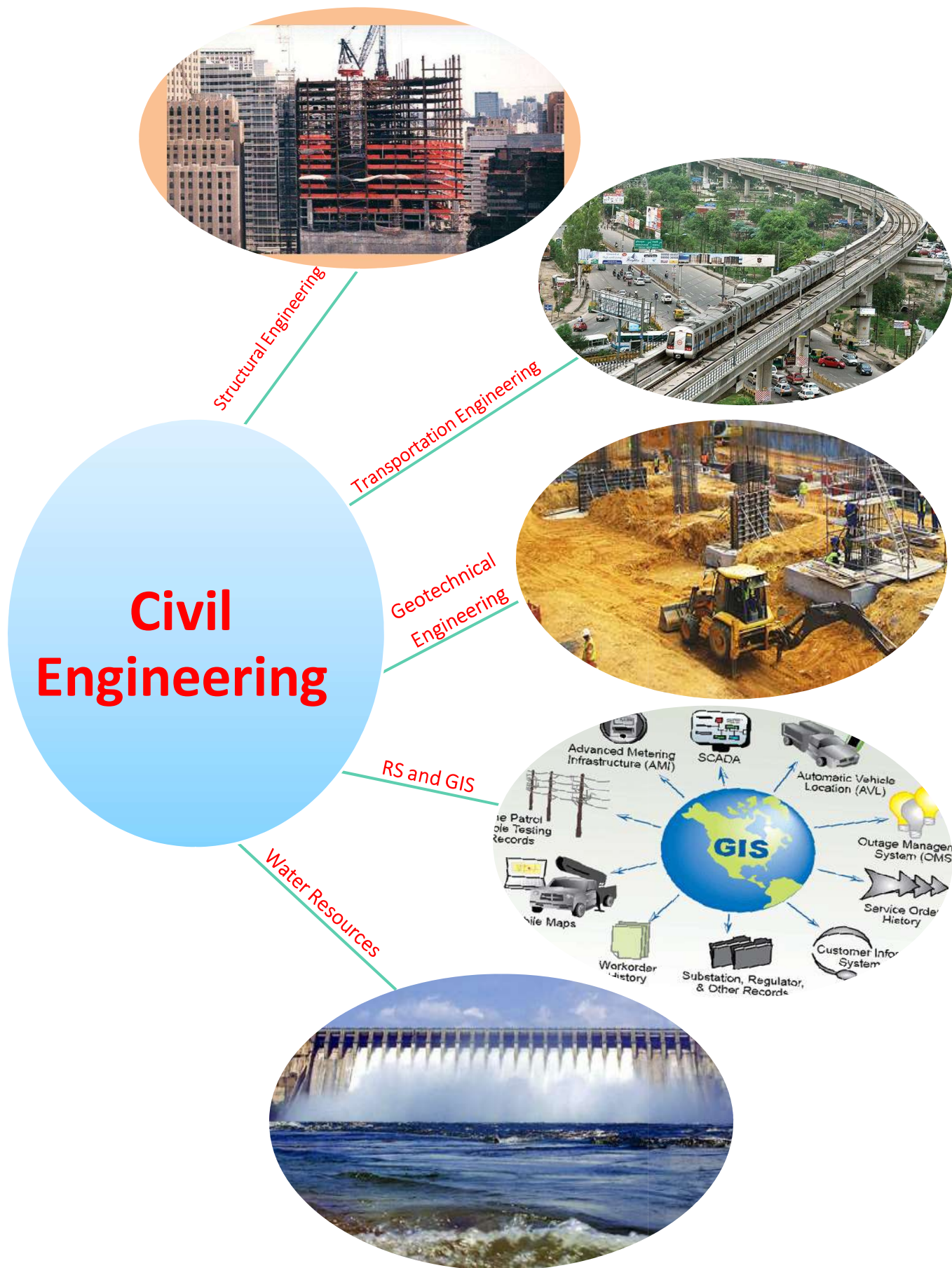
To be recognized as one of the top 10 institutes in the country offering technical education, sustaining and improving its repute of UG programmes, expanding need based PG and research programmes with global outlook, synergizing teaching and research for societal relevance.

## Mission of the Institution

- To identify technological advancements and build the right level of skills at the right Time contributing to the industrial and national growth.
- To identify and keep abreast with the state of the art technology maintaining its legacy of striving for excellence in higher education.
- To promote world class research of local relevance to society.
- With a research community of professors, research fellows and research centres, expand the scale and multidisciplinary character of its research activities.
- With a global outlook strive for collaborations to network with International Universities and National Institutes of Research and Higher Learning.







## Vision of the Department

- The Department of Civil Engineering is committed to raise the intellectual tone of the young students in understanding and incorporating emerging technologies, with an objective of enhancing their competence by applying their proficiency and skill for infrastructure and economic development of the society.

## Mission of the Department:

1. To strengthen the teaching tools in order to orient students to acquire necessary skills to perform in the field or to handle industrial projects.
2. To enhance students into knowledgeable, responsible professionals, successful practitioners and lifelong learners in emerging fields for the betterment of society.
3. To improve the quality of technological education through training, consultancy, research, and innovation.
4. To identify, evaluate and implement scientifically proven technological solutions.

## Program Educational Objectives

PEO 1	To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve engineering problems and to pursue and to enroll in advanced studies
PEO 2	To Impart basic technical knowledge and skills in Civil Engineering and related fields to cater to the emerging technological needs of society.
PEO 3	To perceive the technical knowhow, adaptability and innovation in their work so as to pursue lifelong learning, and to be leaders, both in their chosen profession and in other activities.
PEO 4	To Provide expertise in carrying out civil engineering projects by using state-of-art of computing and experimental techniques to develop interdisciplinary approach.
PEO 5	To Train the student to possess good communication and presentation skills with ability to work in teams and contributing significantly to the technological development of the Nation.

## Program Specific Outcomes

1. Understand the basics of Science, behavioural mechanics and engineering materials required for Engineering systems.
2. Survey, explore, analyse, formulate, design and manage complete Civil Engineering systems by incorporating socio-cultural and environmental needs
3. Develop social skills required for multidisciplinary and collaborative works
4. Train professionally to understand the ongoing field problems and their solutions.



## VALUES

- Academic integrity and accountability
- Respect and tolerance for the views of every individual
- Breadth of understanding, including knowledge of the human sciences
- Appreciation of intellectual excellence and creativity



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## Message from Head

### Department of Civil Engineering



Dr. P. Sravana  
Professor & Head  
Department of Civil Engineering, JNTUH

We have concluded the Golden Jubilee Celebrations of the Institute with a sense of achievement and accomplishment. Since the Civil Engineering Department has all along contributed not only in providing the academic excellence but also in building the basic infrastructure of this great Institute; therefore, there would not be a better time to engage in introspection and put together our achievements as well as our resolve to engage with the challenges of future in view of rapidly changing needs and environment of our society. This brief information brochure is an attempt in this direction. They have always been deeply involved in moulding our young bright undergraduate and graduate students into technologists, technocrats and researchers who are capable of providing best of solutions to the societal problems. I can vouch on behalf of my faculty colleagues and staff that we will continue to strive for greater heights in teaching and research that is relevant and shall help in innovation building. I am very happy to present a brief account of our engagements, achievements and aspirations in the following pages.



The Majestic main building of the JNTUH the Four Pillared Main entrance gate of JNTUH







- *The Department of Civil Engineering was established in the Year 1965. The Department has created its own reputation through its teaching, research, consultancy and extensive activities. It offers undergraduate program in Civil Engineering and postgraduate programs in Structural Engineering, Geotechnical Engineering & Transportation Engineering.*

## Academic and Research Programmes

### Bachelor of Technology in Civil Engineering

The Department offers B.Tech. degree to eligible candidates, which is a four-year undergraduate programme. The students have a wide variety of core and elective courses to choose from.

### Master of Technology in Civil Engineering

The Department offers three postgraduate programmes to eligible candidates, which are of two-year duration each leading to M.Tech degree in a specialised field (as given in the table alongside). In each programme, students acquire knowledge in broad-based core courses followed by electives which provide in-depth and specialised knowledge in areas of special interest to them. Like

	1965	
Btech in Civil Engineering		1965
Mtech in Structural Engineering		1990
Mtech in Transportation Engineering		1989
Mtech in Geotechnical Engineering		2011
Ph.d. in Civil Engineering		
	2019	

the undergraduate students, they also undergo field trips and industry oriented practical training. A major project is also to be undertaken as a part of the curriculum in the final two semesters which involves research order sign and development. Around 120 students enrol for these M.Tech. programmes every year. The Department also offers M.Tech in Construction Technology as MOU with Asian institute of Bangkok.

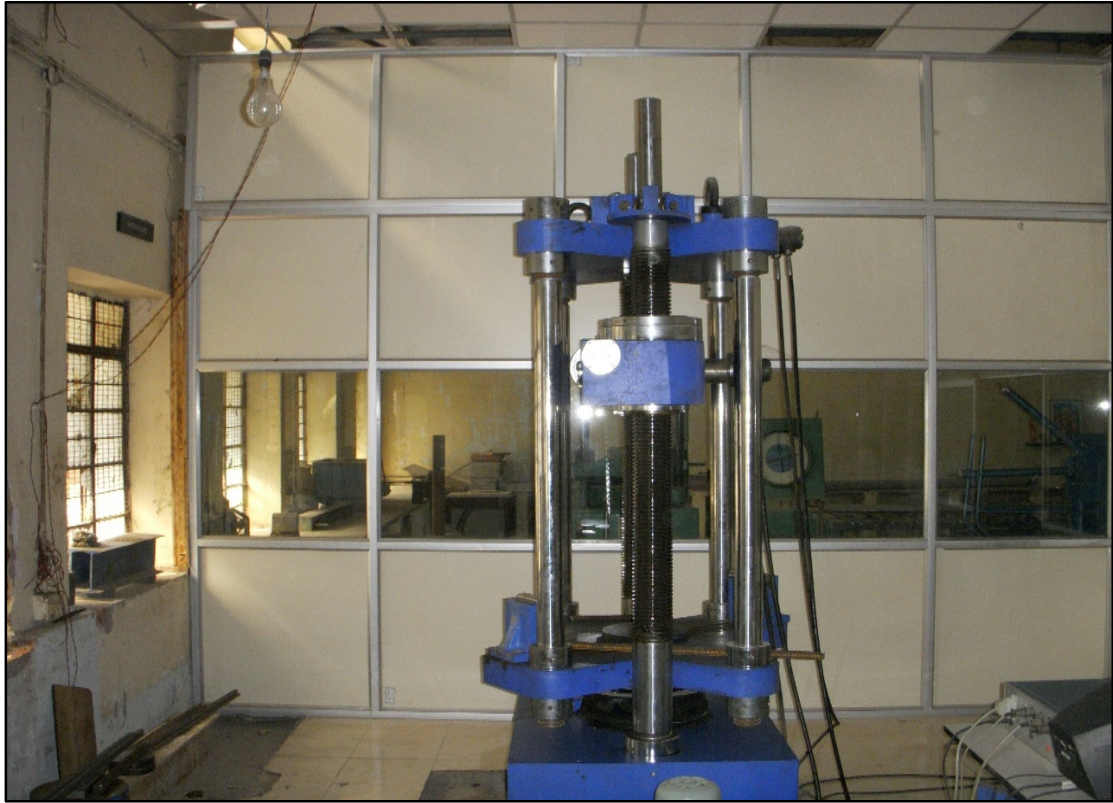
### **Research Programmes (Doctor of Philosophy)**

The Department offers Ph.D. degree a part-time Registration. Nearly 50 students registered from industry or nearby engineering colleges under the guidance of Civil Engineering Faculty.

### **Laboratory and Testing Facilities**

About three-fourths of the Department area is occupied by the state of the art laboratories, namely:





**Micro Processor Based 1000kN capacity Universal Testing Machine**

**Concrete Permeability test apparatus**





**Portable Concrete Permeability Apparatus**



**100 tones Load Frame**





**Triaxial shear Test**



**Pressure Meter**





**Consolidation Units**



**Atomic Absorption Spectrophotometer**





**UV- Visible Spectrophotometer**



**Bitumen and Road Testing Apparatus**





**Total Station**



**Hydraulic Bench**





**STAAD Pro, ETABS, STRAP Softwares**



**Work stations for ARC GIS**





**Minerals and rock, Models of folds, faults and joints**

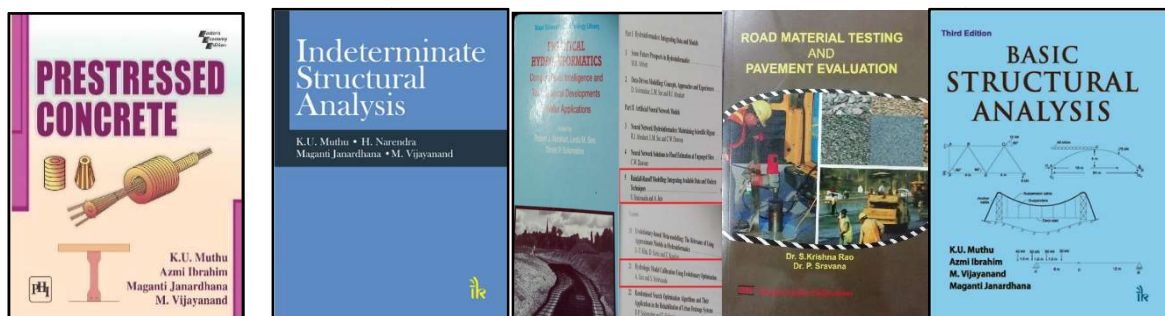


**Department seminar Hall**

- Strength of Materials Laboratory
- Concrete Laboratory
- Structural Analysis Laboratory
- Geotechnical Engineering Laboratory
- Rock Mechanics Laboratory
- Geo-Environmental Laboratory
- Environmental Engineering Laboratory
- Highway Materials Laboratory
- Surveying Laboratory
- Fluid Mechanics and Hydraulics Laboratory
- Computer Laboratory
- System and Modelling Laboratory
- Geology Laboratory
- Transportation Engineering Laboratory
- Construction Simulation Laboratory
- Construction Technology Laboratory
- Soil research Laboratory
- Geographical Information System
- Materials Research Laboratory
- Departmental Computational Laboratory
- Seminar Hall

## Publications

The faculty are always enthusiastic in publishing books/book chapters, journal papers and conference papers both at the national and international level on a variety of topics. In recent years (2007-2019) journal papers & conference papers 790 and 5 books have been published. The faculty also actively take part in editing and reviewing books, journal papers, conference papers/proceedings, journal issues, technical articles, Masters and Doctorate theses.





## Sponsored Research and Consultancy Projects

The Department has undertaken good number of R & D projects from AICTE, UGC, DST and some private organizations in the fields of concrete technology, Water Resources Management, Geo-Technical Engineering, Geo Environmental Engineering and Earthquake Engineering. At present three projects are ongoing in different fields sponsored by AICTE & UGC. At present the department is having R&D projects of worth Rs. 50 Lakhs on hand.

Project Title	Project Duration	Amount Received Lakhs	Funding Agency	Type of project	Status (Completed/ In progress)	Project Coordinator
Modernization of Concrete Laboratory	2012 -15	12.0	AICTE	MODROBS	Completed	Dr. P. Srinivasa Rao
Disaster Management (COE)	2013 -16	300	World Bank	TEQIP III Center of Excellence	Completed	Dr G. V. N. Reddy Dr. V. Padmavathi
Cost and effective and novel treatment method for remediation and reuse of pesticide industrial wastewater	2017-20	25	DST	R & D	In Progress	Dr.Srinivasulu
Stabilized Compressed Earth Blocks using Rice Husk Ash and their applications to Load Bearing Walls	2013-17	17	DST, Govt. of India	DST, Govt. of India	Completed	Dr Maganti Janardhana
Use of Polymer fibres and steel fibres for improvement in concrete properties (In association with BITS Pilani Hyderabad Campus faculty)	2017-18	5.85	MORTH		On going	Dr P N Rao & Dr Padmavathi, V
Possibilities to Use over Burden Sand for Civil & Construction Purpose	2017-18	1.0	Ahome Consultants Private Limited		completed	Dr.P.Srinivasa Rao
Assessing Suitability of Processed OB for Civil Construction Purpose	2014-19	5.056	Singareni Collieries Company Limited		completed	Dr.P.Srinivasa Rao

## STUDENTS PLACEMENTS

The UG and PG students of this Department have been placed in software and core Industries such as IBM, CTS, ICICI, NCC, WIPRO, ACCENTURE, TCS, MAHINDRA SATYAM, FUTURES FIRST, INFOSYS, L&T limited, VISWA, TATA PROJECTS BHAGAVATHI, TATA POWER, L&T, NCC, TCE.

## Faculty Profile:



**Dr.E. Saibaba Reddy,**

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Professor& Principal, [esreddy1101@jntuh.ac.in](mailto:esreddy1101@jntuh.ac.in),  
Research Areas: Pile Foundations, Geo Environmental Engineering, Physical Modelling,  
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Research Areas: Integrated Water Resources Management, Watershed Management, Rainwater Harvesting,  
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**Dr. P. Sravana,**

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Research Areas: Special Concretes, Optimization of Various additives for Bitumen Mixes, Roller Compacted Concrete Pavements, JNTU, Hyderabad.



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**Mrs. A. Krishna Nivedita,**

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**Dr.M.R. Madhav** Ph.d(IITK),  
 Geo- technical Engineering,  
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 Research Areas: Special Foundation, Pile Foundations, Contaminant Transport  
 Eccentrically loaded soil Foundations  
 JNTU, Hyderabad

## Future Goals:

- *To provide thrust in emerging technologies in Civil Engineering.*
- *To develop collaboration with industry in research and consultancy.*



- *To conduct training in emerging areas to Organizations & Industry.*
- *To attain infrastructure development in rural India.*
- *To contribute in developing research for the needs of society.*

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