

About the Institute:

“Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology” was established by the ‘Vignana Jyothi’ Society as a not-for-profit organization in the year 1995-96, with a motto to provide value based education on par with international standards. The Philosophy of Vignana Jyothi unravels education as a process of "Presencing" that provides, both individually and collectively, to one's deepest capacity to sense and experience the knowledge and activities to shape the future.

The Institute is established with the permission of AICTE and Govt. of AP. Institute offers 9 B.Tech. 13 M.Tech. and Ph.D. Programs. All the courses offered by the institute are affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad. The institute is recognized under section 2(f) and 12(B) of the UGC Act, 1956. The Institute is accorded Autonomous status by UGC for 6 years in 2012 and Extension of Autonomous Status is accorded for 10 years in 2018. Institute is Accredited by NAAC with ‘A++’ Grade with CGPA 3.73/4.00 in Cycle-II in 2018. ‘7’ B.Tech. courses are accredited by NBA. The institution is granted with “College with Potential for Excellence (CPE)” status by UGC for a period of five years w.e.f. 2016. AICTE has identified the institute as a Research Institute under the National Doctoral Fellowship scheme and 5 Departments are recognized as Research Centres by JNTUH, Hyderabad. Institute is certified by International Standards Organisation with ISO 9001:2015, QS i-GAUGE awarded “Diamond” college rating and E-LEAD (E-Learning Excellence for Academic Digitisation) Certification. MHRD, India has ranked the institute at 127th rank in the Engineering category and 151-200 rank band in the Overall category in NIRF 2020.

About the Department:

The Department of Civil Engineering was started in the year 2001 with an intake of 60. The intake was increased

to 120 in the year 2010. The department also offers PG programs in Structural Engineering, Highway Engineering and Geo-Technical Engineering with an intake of 18 each. The department is equipped with excellent laboratories provided with state-of-art equipment's and experimental facilities required for imparting high quality technical education and is structured to meet the present day needs of the society. The department is reinforced with 17 doctorates in various specializations of Civil Engineering and 12 faculty are pursuing Ph.D. and the department is also ably supported by highly skilled and competent technical staff to undertake testing and consultancy works. The Civil Engineering Department is accredited by National Board of Accreditation (NBA) for five years in Outcome Based Education (OBE). The department is accorded with Third Party Quality Control (TPQC) services from Greater Hyderabad Municipal Corporation (GHMC), Comprehensive Road Management Plan (CRMP) of GHMC, Government of Telangana State since May 2018. Our client list includes NHAI, AP Police Department, M/s. Gland Pharma Ltd., and many more. The Department has MOUs with Industry and also undertakes consultancy to promote Industry Institute Interaction.

Organising Committee: Coordinator:

Dr. S. Sasanka Mouli
Assistant Professor
Dept. of Civil Engineering

E-mail: sasankamouli_s@vnrvjiet.in
Contact No.:9966218861



AICTE
Sponsored

Five-day Online Faculty Development Program (FDP) on Innovative Contactless Investigation Techniques in Civil Engineering (06/09/2021 to 10/09/2021)



Organized by

Department of Civil Engineering
VNR Vignana Jyothi Institute of
Engineering and Technology

Vignana Jyothi Nagar, Pragathi Nagar,
Nizampet (S.O), Hyderabad – 500 090
Telangana State, India

Overview of the Program:

With the upsurge in the innovative technologies, new investigative methods are implemented in the field of civil engineering. Innovative methods such as contactless measurements using geophysical techniques or image analysis are encouraged due to their advantages over the conventional exploration methods. These methods proved to be more economical, time saving and less laborious. These methods increase the precision in the measurements in the field investigation by minimal human interaction. In the advent of various computational algorithm like Machine Learning (ML), Artificial Intelligence (AI) and Internet of Things (IOT) can expertise the exploration methods.

Objectives of the Program:

This Faculty Development Programme (FDP) aims to

- To make the participant faculty conversant with new investigative techniques in civil infrastructures.
- To make the participant know the intricate details of the new investigative technology.
- To facilitate students to do work with these techniques to procure better skillset to work in the industry
- To apply the knowledge in research to analyse the complex systems and Perform advanced research and quality publications
- Enhance teaching scope in the courses handling

Who Can Participate?

This Online AICTE sponsored FDP is open to Faculty members, Industry Professionals engaged in Civil Engineering profession, post graduate and under graduate students.

How to Apply:

Eligible candidates may apply by submitting the details through ATAL-AICTE website before **4th September 2021** (6:00 PM).

<https://atalacademy.aicte-india.org/participant/workshop>

No Registration Fee

Confirmation of Participation:

On receipt of the registration form, participants will be sent confirmation of their participation through E-mail by **4th September 2021**. The details regarding schedule and link for online platform will be shared only to registered participants through mail. The number of participants for this program is limited to 50 only. E-Certificate will be provided to those who have attendance >80%, filled the daily feedback form and successfully completed (>50% marks) the assessment at the end of the program.

Topics:

- Applications of Drone survey in Civil Engineering
- Applications of Ground Penetration Radar in Sub-Surface Investigation
- MASW testing for High Depth Investigation
- Analysis of large bored piles by using O-Cell test methods
- Use of Photogrammetry in 3D Modeling and Visualization of Buildings
- Image Analysis in Soil Testing- A Novel Approach
- Advanced field testing for compaction control at the site
- Digital Image Correlation applications in Civil Engineering
- Geophysical Investigation techniques for predicting the ground water table, soil strata (E.R.T.)
- Analysis of thermal characteristics of Geomaterials
- Nondestructive evaluation of structures

Resource Persons:

Eminent speakers from Academia, Industry and Research will share the knowledge and experience in the using Advanced Contactless Investigation tools in Civil Engineering.

Prof. M. R. Madhav
INAE Fellow, VNR
VJJET

**Prof. K.V.L.
Subramanyam**
IIT Hyderabad

Dr. Sanjay Rana
MD Parsan overseas

Prof. B. Umashankar
IIT Hyderabad

Dr. T. P. Tezeswi
NIT Warangal

Prof. Sireesh
IIT Hyderabad

Dr. Iswar Chandra Das
Scientist SG,NRSC,ISRO

**Prof. K.B.V.N.
Phanindra**
IIT Hyderabad

**Dr. Srinivasan
Chandrasekharan**
Prof. IIT Madras

T. Srinivas
IIT Bombay

Dr. Hari Prasad
Mahindra University

Dr. Naveen Kumar
VNR VJJET

..... and many more experts from industry and academia

*Stay Home, Stay Safe
Wish you a Happy Learning*



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 CE, EEE, ME, ECE, CSE, EIE, IT B.Tech. Programmes
Approved by AICTE, New Delhi, Affiliated to JNTUH
Recognized as "College with Potential for Excellence" by UGC
Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad – 500 090, TS, India.
Telephone No: 040-2304 2758/59/60, Fax: 040-23042761
E-mail: postbox@vnrvjiet.ac.in, Website: www.vnrvjiet.ac.in



Innovative Contactless Investigation Techniques in Civil Engineering

(06/09/2021 to 10/09/2021)

Programme details

Date	Time	Activity	Resource Person
06/09/2021 (Day 1)	9:30 am to 11:00 am	Estimation of Geotechnical Parameters of the Ground	Prof. M.R. Madhav INAE Fellow, VNR VJIE
	11:10 am to 12:40 pm	Geophysical Investigations for Dam Safety	Dr. Sanjay Rana MD, Parasan Overseas
	3:00 pm to 4:30 pm	Use of Image analysis in Structural Investigation	Prof.K.V.L Subramaniam IIT Hyderabad
07/09/2021 (Day 2)	9:30 am to 11:00am	Structural Health Monitoring: Basics and Experimental studies to strategic structures	Prof. Srinivasan Chandrasekaran, Ocean Technology, IIT Madras
	11:10 am to 12:40 pm	DIC applications in pavements	Prof. Sireesh S. IIT Hyderabad
	3:00 pm to 4:30 pm	Digital Image Correlation Applications in Civil Engineering	Dr. Tezeswi Phanirama NIT Warangal
08/09/2021 (Day 3)	9:30 am to 11:00am	Unmanned Aerial Vehicle Survey in Geotechnical Domain	Prof. B. Umashankar IIT Hyderabad
	11:10 am to 12:40 pm	GPR application on Ground water assessment	Dr. Iswar Chandra Das Scientist, NRSC
	3:00 pm to 4:30 pm	Geophysical Investigation Techniques for Predicting Groundwater and soil strata	Dr. K.B.V.N. Phanindra IIT Hyderabad
09/09/2021 (Day 4)	9:30 am to 11:00am	Traffic Study using Image analysis	Dr. Naveen Kumar VNR VJIE
	11:10 am to 12:40 pm	Self Unfoldment for Higher Happiness	Swami Bodhamayananda R. K. Math
	3:00 pm to 4:30 pm	Need for Remote sensing and Machine Learning in Cryosphere - Challenges and ongoing Investigation	Mr. T. Srinivas IIT Bombay
10/09/2021 (Day 5)	2:00 pm to 3:15 pm	Drone Survey Applications in Civil Engineering	Mr. Nilesh MD, Sphere hobbies
	3:30 pm to 5:00 pm	Site Quality Control using contactless techniques	Dr. C. Hari Prasad Mahindra University
	5:00 pm to 5:30 pm	Valedictory and Feedback	VNRVJIE & AICTE