



Department of Civil Engineering
**National Institute of Technology
Andhra Pradesh, Tadepalligudem.**
CONDUCTS A HIGH-END WORKSHOP ON



ACCELERATE
vigyan



Sponsored by
KARYASHALA - SCIENCE AND ENGINEERING RESEARCH BOARD

**CURRENT AND FUTURE PROSPECTS OF
MODERN CONSTRUCTION MATERIALS AND
PRACTICES**

24TH – 30TH JULY 2023

ABOUT NIT ANDHRA PRADESH: NIT Andhra Pradesh is the 31st institution among the chain of NITs started by the Government of India and is established in the academic year 2015 – 2016. The construction works of Phase 1A and 1B, which includes the academic & laboratory complexes, central library, hostels, faculty and staff quarters along with full-fledged recreation & students amenities center is completed within the short time span of three years and is constructed in 172.6 acres of land adjacent to Chennai-Kolkata Highway (NH-16) in the air-strip lands of Tadepalligudem, West Godavari Dist., Andhra Pradesh. At present the Institute is offering B.Tech., M.Tech., Ph.D. and MS programmes in eight engineering departments along with Ph.D. in pure sciences and management.

ABOUT DEPT. OF CIVIL ENGINEERING : The Civil Engineering Department offers B.Tech, M.Tech (Geotechnical Engineering), M.S(by Research) and Ph.D. Programmes. Faculty research interests include, but are not limited to the following areas: Constitutive modelling, Smart composites, Concrete Technology, Earthquake Geotechniques, Environmental Geotechnology, Water & Wastewater Treatment, GIS-based Hydrological Modelling, and Integrated Water shed Management.

ABOUT WORKSHOP : The main objective of this seven-day workshop is to acquaint the participants with the knowledge of alternative binders and challenges associated with the modern construction practices such as 3-D printing and pumping of concrete. Speakers will cover various research progress in potential of binders based on agrowaste ashes, characterization techniques, issues associated with pumping of concrete etc. Workshop will be helpful for the researchers working in the areas of construction materials, waste management, cleaner production of construction products and modern construction approaches..

(SERB - DST) GOVERNMENT OF INDIA

Organizing

PATRON

Prof. Pramod M. Padole
Director (In-Charge)
NIT Andhra Pradesh,
Director, VNIT Nagpur.

CO-PATRON

Dr. Dinesh P. Shankar Reddy
Registrar (In-Charge)
NIT Andhra Pradesh.

CONVENOR

Dr. Baranidharan S
Asst. Prof. & HoD,
Dept. of CE.

COORDINATOR

Dr. Shaik Mahabu Subhani
Asst. Prof., Dept. CE.

SCHEDULE			Tentative List of Speakers
Date	Forenoon Session (10:00 am - 12:00 noon)	Afternoon Session (2:00 pm - 4:00 pm)	
24 – July-023	Recent Advances and Challenges in 3-D Printing and Pumping of Concrete Prof. Prakash Nanthagopalan		Prof. Prakash Nanthagopalan Department of CE, IIT Bombay
25 - July -023	Cement manufacturing process, quality control and challenges in fresh properties of concrete Dr. Manikandan		Dr. Bahurudeen A Department of CE, BITS Hyderabad
26 - July-2023	(1) 3D concrete printing in the construction industry - possibilities and challenges (2) Rheological characterization of cement-based materials Dr. A.V.RAHUL		Dr. Athira Gopinath Department of CE, IIT Kharagpur
27 - July-2023	Performance evaluation of alkali activator binder systems in comparison to conventional binder systems Dr. Shaik Mahabu Subhani		Dr. Manikandan National Technical Services Head, Dalmia Cements
28 - July-2023	Eco-friendly binders and characterization techniques Dr. Athira Gopinath		Dr. A.V.RAHUL Department of CE, IIT Tirupati
29 - July-2023 & 30 - July-2023	Potential of biomass waste ashes as modern binders in construction industry Dr. Bahurudeen A		Dr. Shaik Mahabu Subhani Department of Civil Engineering, NIT Andhra Pradesh

ABOUT KARYASHALA

Science and Engineering Research Board (SERB) is a statutory body under the Department of Science and Technology. The government of India has inaugurated an Inter-Ministerial Initiative 'Accelerate Vigyan (AV) Scheme' to provide a big push to high-end scientific research and prepare scientific manpower which can venture into research careers and a knowledge-based economy. AV aims to expand the research base in the country, with three broad goals-consolidation/aggregation of all scientific training programs, initiating high-end Orientation Workshops, and creating opportunities for Research Internships. AV scheme is an attempt to boost Research & Development in the country by enabling and grooming potential PG and Ph.D. level students by developing dedicated research skills in selected areas/disciplines/fields through High-End orientation workshops 'KARYASHALA'. This will be especially important for those researchers who have limited opportunities to access such learning capacities/facilities/infrastructure.

Eligibility: The course is intended only for the students pursuing PG/Ph.D., who are interested to do research in the domain of construction materials. **Mode of workshop:** Offline. The participants need to attend all the sessions of the workshop physically. **Travel allowances, and hostel accommodation will be provided for the participants as per the SERB norms.**

REGISTRATION AND OTHER DETAILS: There is no registration fee for this workshop and the participants who meet the eligibility criteria will be selected on first come first serve basis and the number of participants is limited to 25 only. Participants can apply for this workshop using the [link](#) and should submit the scanned copy of the duly signed Mandatory Registration Form (attached with this brochure) while doing the registration. Last date for the registration is 03.07.2023 and the selected participants will be notified by 06.07.2023.

CONTACT DETAILS:

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ORGANIZED BY
DEPARTMENT OF CIVIL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH, TADEPALLIGUDEM

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MANDATORY REGISTRATION FORM

1. Name: _____
2. Designation: M.E/M.Tech/PhD
3. Institution: _____
4. Address for correspondence with e-mail: _____

5. Telephone / Mobile No: _____
6. Research area: _____

Place:

Date:

Signature of the Applicant

Approval from supervisor/Head of the department of the applicant

The applicant is a M.E/M.Tech/PhD Scholar of our department and will be permitted to participate in the above program for seven days in physical mode, if selected.

Signature and the Seal of Head of the
Institution/Department/Section