# ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)

on

## "Current and Future prospects of Additive Manufacturing of Concrete in Sustainable Infrastructures Development"

(7th July – 18th July, 2025)

Organized by

Electronics & ICT Academy, NIT Warangal (HUB)

*in association with*

E&ICT Academy NIT, Andhra Pradesh (SPOKE)

**(Sponsored by Ministry of Electronics and Information Technology (MeitY), GoI)**

### Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer Faculty Development Programme's (FDPs) in standardized courses and emerging areas of Electronics, Information Communication Technologies, training and consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

This FDP is designed to address research advancements in additive manufacturing and its application in sustainable infrastructure development. This course will help to encourage various zonal professionals/ research scholars/ students/ academicians towards research and for their Academic Quality Improvement. This course will offer a unique opportunity to all the participants in the relevant topics in Additive manufacturing; Advanced materials used in sustainable construction; Opportunities and Challenges through theoretical sessions. Also, this FDP aims at giving scope for future research.

Additive manufacturing (AM) holds great promise for sustainable infrastructure development. Currently, it enables precise, waste-reducing construction with reduced material consumption and lower carbon footprints. In the future, AM could revolutionize the industry by enabling the use of recycled materials, reducing transportation costs, and creating innovative, energy-efficient designs. As technology advances, AM has the potential to significantly reduce environmental impacts, fostering more sustainable, resilient infrastructure solutions globally.

### Objectives: FDP aims at giving scope for future research on,

- Enhance Understanding of Additive Manufacturing (AM) Technologies
- Explore the Role of AM in Sustainable Infrastructure.
- Investigating the Future Prospects and Innovations in AM for Infrastructure
- Applications new age materials in infrastructure development through AM.

### Resource Persons:

The Programme will be conducted by the Faculty Members of the Department of Civil Engineering, NIT Andhra Pradesh; Academicians in the concerned field from IITs/NITs areinvited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of thecourse.

### Eligibility:

The program is open to the Faculty of Engineering Colleges and other allied disciplines in India. Industry personnel working in the concerned/allied discipline and Research Scholars can also attend.

### How to Apply:

Participants are required to fill the online registration form, by clicking on the following link: **Click Here**. Along the registration form, participants need to pay registration fee and payment receipt needs to be uploaded in the form.

### Registration Fee Particulars:

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|---|---|
| Faculty / Research Scholars | 750 /- |
| Industry Participants | 2,250 /- |

Participants need to pay the Registration Fee Online using the following online transfer details:

| | |
|---|---|
| Account Name | Electronics & ICT Academy NITW |
| Account No | 62423775910 |
| IFSC Code | SBIN0020149 |
| Bank | State Bank of India |
| Branch | NIT(REC) Warangal |

### Important Dates:

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|---|---|
| Last date for Application with Fee | **20/06/2025** |
| Selection List by Email | **25/06/2025** |

### Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 100 (Hundred). The list of selected participants will be intimated through e-mail. Candidates will be issued a satisfactory certificate on successful completion of the course.

### About National Institute of Technology, Warangal:

National Institute of Technology, Warangal is the first among 17 RECs set up as a joint venture of the Government of India and the state government. Over the years, the college has established itself as a premier Institute imparting technical education of a very high standard, leading to the B. Tech degrees in various branches of engineering, M. Tech and Ph.D. programs in various specializations. All B.Tech, M. Tech programs of NIT Warangal are NBA accredited.

### About National Institute of Technology, Andhra Pradesh:

National Institute of Technology Andhra Pradesh is the youngest (31st) institution among the chain of NITs started by the Government of India. It was established in 2015 at Tadepalligudem in the state of Andhra Pradesh. With the support of MoE the institute started functioning in its 174 acres permanent campus. Presently, the institute offers B.Tech, and Ph.D. programs.

### Coordinators



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|---|---|
| Dr. Shaik Mahabu Subhani, | Dr. Subhajit Sen, |
| Assistant Professor, | Assistant Professor, |
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Registration Link: https://forms.gle/R6xh4oaNJ5C14vue7