



ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON

AI for Communication and Signal Processing Applications

(3rd Feb - 14th Feb 2025)

Organised by

Electronics & ICT Academy, NIT Warangal

In Association With

Department of ECE, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru.

Sponsored by

Ministry of Electronics and Information Technology (MeitY), GoI.



Preamble:

"Electronics & ICT Academy – Phase II" was set up at NIT Warangal with financial assistance from MeitY, GoI. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the FDP:

This FDP is devoted for addressing the need to enhance the knowledge about the latest technologies pertaining to the Real-World Applications of Signal processing and Communications is being conducted in online mode at Seshadri Rao Gudlavalleru Engineering College (SRGEC). The whole course is handled by academicians and industry experts.

Major Course Content:

- Introduction to Artificial Intelligence and its applications.
- Mathematical foundations of machine learning for signal processing and communication.
- Feature Extraction, dimensionality reduction in ML.
- ML based Regression, Classification and its applications.
- Machine learning based signal processing for software defined and cognitive radio
- Artificial Intelligence for 5G/6G systems.
- Potential limitations of AI solutions in wireless communications
- Machine learning and signal processing of large scale datasets
- AI/ML for imaging and computer vision applications
- Basics of Tensor Flow/Keras/PyTorch
- Working with data pre-processing and data visualization using python.

Participants need to pay the Registration Fee Online using the following details

Online Transfer Details	
Account Name :	Electronics & ICT Academy NITW
Account No :	62423775910
IFSC :	SBIN0020149
Bank and Branch:	State Bank of India, NIT (REC) Warangal

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

Registration Fee Particulars:

Faculty and Research Scholars	Rs.750/-
Industry Participants	Rs.2250/-

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/RfZa6vA58KY6icee6>

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 40 (forty). Candidates will be issued satisfactory certificates by NIT Warangal on successful completion of the course.

Important Dates:

Last date (Application)	26.01.2025
Selection List by E- mail	27.01.2025
Duration	03.02.2025 to 14.02.2025

About NIT 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 B.Tech degrees in various branches of engineering, M.Tech., and Ph.D. programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About SR Gudlavalleru Engineering College:

Seshadri Rao Gudlavalleru Engineering College (SRGEC) was established in the year 1998 and is promoted by AANM & VVRSR Educational Society. The institution obtained permanent affiliation status from JNT University Kakinada and was granted autonomous status by UGC in 2014. The college is accredited by NAAC with "A+" grade and all eligible B.Tech programs of CE, EEE, ME, ECE, CSE and IT have been accredited by NBA under TIER-I. SRGEC offers UG in 9 Engineering Programs, PG programs in 4 engineering fields and a PG Programme in Business Administration (MBA). The B.Tech UG programs are offered in CE, EEE, ME, ECE, CSE, IT, AI&DS, AI&ML and IoT branches.

Coordinators

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