

# Faculty Development Programme (FDP) on Artificial Intelligence for Building Signal Processing Applications (7<sup>th</sup> to 11<sup>th</sup> December 2020)



Organized by  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**National Institute of Technology, Warangal**  
(Under TEQIP Phase - III)

## Preamble :

Artificial Intelligence is so pervasive today that you probably use it dozens of times a day without knowing it. Artificial intelligence involves two basic ideas. First, it involves studying the thought processes of human beings. Second, it deals with representing those processes via machines (like computers, robots, etc.). The traditional problems (or goals) of AI research include learning, natural language processing, planning, knowledge representation, perception and the ability to move and manipulate objects. Signal processing: a field at the heart of science and everyday life. The notion of "signal processing" might seem like something impenetrably complex, even to scientists. Acquiring, shaping and transforming data, cleaning it for the sake of improved analysis and extraction of useful information – all of this is what experimental science is about. The aim of the workshop is to contribute to the cross fertilization between the research on AI algorithms and their applications to Signal Processing.

## Major Course Contents :

- Introduction to AI and ML
- Signal processing & its Applications
- Python Fundamentals
- AI and It's Applications for Signal Processing
- CNN for Audio and Video Processing
- AI for Speech Processing
- Pattern Recognition and Image Processing
- Social Signal Processing

Hands on session on the above topics will be provided.

## Faculty Conducting this Programme :

The programme will be conducted by the faculty members from NIT Warangal. Experts from Academia, Industry and Research will handle the theory and hands-on sessions.

## Eligibility :

The programme is open to the faculty and student participants / Research Scholars of all engineering, colleges, and other allied disciplines in India. Industry personnel working in the concerned/allied discipline can also attend.

## Registration Fee and Selection:

- Faculty : Rs. 1,000/- Only
- Industry participants : Rs. 2,000/- Only
- Students / Research Scholars : Rs. 250/- Only

Fee should be paid through NEFT / internet banking to the following account

Account Name	TEQIP III Funds
Account Number	37583198741
Name	State Bank of India
Branch	REC Warangal (NIT Campus)
IFSC	SBIN0020149

**Important Note:** Please enter "AISPA" in remark while doing transaction which is mandatory

Selection will be done based on *first-cum-first-serve basis*. Selected candidates will be intimated through e-mail only. On receipt of the proof (Transaction ID) of online payment of registration fee, the applicants will be sent confirmation of their participation through Email immediately

## How to Apply :

Interested candidates can apply online by clicking below link

<https://forms.gle/FB9kTLXFTGDfJbyX8>

It is also mandatory to send scanned application form through e-mail to [ssp.nitw@gmail.com](mailto:ssp.nitw@gmail.com) as selection will be intimated only through mail.

## Important Dates :

Last date of receiving application : **01<sup>st</sup> December, 2020**  
Selection-list intimation before : **03<sup>th</sup> December, 2020**  
Duration of Program : **07<sup>th</sup> to 11<sup>th</sup> Dec, 2020**

## About the Institute, Department and Warangal :

National Institute of Technology (formerly Regional Engineering College), Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institution 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.

The Department of Electronics and Communication Engineering offers B.Tech. course in ECE, M.Tech. courses in Advanced Communication Systems (ACS), VLSI Design and Electronic Instrumentation. The Department has experienced faculty with good publications, well-established laboratories and liaison with reputed industries and R&D organizations.

Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 140Km. from Hyderabad. Warangal is well connected by rail and road. National Institute of Technology campus is 2 Km. away from Kazipet station and 12Km. away from Warangal station.

## Address for correspondence

### Post your application form to

Prof. T. Kishore Kumar, Coordinator,  
Department of Electronics and Communication Engineering,  
National Institute of Technology, Warangal,  
Warangal, Telangana - 506 004.

### Mail the scanned copies of filled-in and duly signed application form to

[ssp.nitw@gmail.com](mailto:ssp.nitw@gmail.com)

### For any enquiry contact:

Mobile: 8332969353 Office: 0870 -2462440