ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) on
Signal and Image Processing Techniques For Next Generation Applications
(04th March – 13th March 2022)
Organized by
Department of Electronics & Communication Engineering
in association with
Electronics & ICT Academy, NIT Warangal (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, Govt. of India. The principle'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:
The research and developments in the area of signal and image processing play a crucial role in addressing the challenges faced by the society. Now a days, machine learning and artificial intelligence based approaches have made their presence felt in vast areas encompassing healthcare, home, entertainment, industries to agriculture, defence etc. In lieu of this, the FDP intends to develop an understanding of healthcare applications, biomedical image analysis, speech recognition digital assistants, audio processing utilizing the benefit offered by machine learning and artificial intelligence. The focus will be on imparting basic knowledge integrated with their implementation on varieties of real life applications enabling the attendees to recognize the latest cutting-edge tools, techniques and their use right from theory to its implementation.

Major Course Contents:
- Recent trends in adaptive signal processing.
- Machine learning technique based speech processing.
- Deep learning technique for smart health care systems.
- Medical image analysis.
- Machine learning algorithms for audio signal processing (ANC, Hearing Aids).
- System Development for different IoT-enabled systems.
- Medical Signal Acquisition, Analysis and Processing.
- Computer-aided detection and diagnosis.
- Emerging Technologies in Digital Signal Processing.
- Industrial Applications of Machine learning.

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

How to apply:
A filled application form in the prescribed format duly signed and sponsored by appropriate authorities along with the proof of payment details should be scanned and sent through e-mail to SIPA.ece.nitw@gmail.com. After paying the fee participants are requested to fill the Google doc for confirmation of your interest (mandatorily) to attend this FDP: https://forms.gle/XB1iNJcXGRm5bpGx8

Selection Criteria:
Selection will be done based on first-come-first-serve basis to a maximum number of 100. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the amount will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Registration Fee Particulars:

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty and Research Scholars</td>
<td>Rs.750/-</td>
</tr>
<tr>
<td>Industry Participants</td>
<td>Rs.2250/-</td>
</tr>
</tbody>
</table>

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

Online Transfer Details:

<table>
<thead>
<tr>
<th>Account Name</th>
<th>Electronics &amp; ICT Academy NITW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account No</td>
<td>62423775910</td>
</tr>
<tr>
<td>IFSC</td>
<td>SBIN0020149</td>
</tr>
<tr>
<td>Bank and Branch</td>
<td>State Bank of India, NIT (REC) Warangal</td>
</tr>
</tbody>
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Important Dates:

| Last date (Application & DD) | 02.03.2022 |
| Selection List by E-mail     | 03.03.2022 |
| Duration                     | 04.03.2022 to 13.03.2022 |

About NIT Warangal:
National Institute of Technology, 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 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. programmes in various specializations. All B.Tech and M.Tech programmes of NIT Warangal are NBA accredited.

About Department:
The Department of Electronics and Communication Engineering is one of the country’s larger ECE departments among all NITs in India. The ECE Department at NITW has been an international reputation of excellence in teaching, research and service. The ECE Department offers an Undergraduate program in Electronics and communication Engineering and three Postgraduate programs in EIES, VLSI, and ACS Specializations. The Department has experienced faculty and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like DRDO, ISRO, ECIL, Analog Devices Bangalore and C-DAC. Department conducts various sponsored programmes throughout the year.

Address for Correspondence:
Dr. Vasundhara
Assistant Professor
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National Institute of Technology Warangal
Warangal – 506 004 (Telangana State).
Email: SIPA.ece.nitw@gmail.com
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1. Name:
2. Designation:
3. Institution:
4. Email:
5. Mobile No:
6. Reference No:
   Amount:
   Bank:
   Date:
7. Address for Correspondence:
8. Educational Qualification:
9. Subjects taught so far:
10. No. of refresher courses/workshops attended:
11. Experience (in years):
   Teaching: Research: Industry:
12. Do you belong to SC/ST: YES /NO
   (If yes, please specify and attach a copy of caste certificate to claim the concession)

**Declaration:**
The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Date        Signature of the Applicant

**SPONSORSHIP CERTIFICATE**
Dr. /Mr. /Ms. ........................................... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “Signal and Image Processing Techniques For Next Generation Applications”, sponsored by Electronics & ICT Academy during 04\textsuperscript{th} March – 13\textsuperscript{th} March, 2022 at NIT Warangal, Telangana.

Signature of Head of Institution (With seal)

**Address for Correspondence:**

Dr. Vasundhara
Assistant Professor
Department Electronics & Communication Engineering
National Institute of Technology Warangal
Hanamkonda, Telangana, PIN: 506004

For more details about Electronics & ICT Academy, NIT Warangal, please visit: [https://nitw.ac.in/eict](https://nitw.ac.in/eict)

Interested Faculty are required to fill in the online registration form given in the [https://forms.gle/XB1iNJCxGRmSBpGx8](https://forms.gle/XB1iNJCxGRmSBpGx8)

**For more enquiries please contact:**

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Email: SIPA.ece.nitw@gmail.com

**Coordinator**

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