



**ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)**  
**ON**  
**APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN ENGINEERING**

(8<sup>th</sup> August 2022 – 19<sup>th</sup> August 2022)



**Organized by**  
**E & ICT Academy, NIT Warangal, Telangana**  
*in association with*  
**Department of Electrical Engineering,**  
**Veer Surendra Sai University of Technology, Burla - 768018, Odisha**  
*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 programmes (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 Online FDP is devoted to address the need to enhance the knowledge about the latest development pertaining to **Applications of Artificial Intelligence in Engineering** is being conducted at **Department of Electrical Engineering, Veer Surendra Sai University of Technology, Burla – 768018, Odisha**. The whole course is handled by academicians and industry experts.

**Major Course Contents:**

- Artificial Intelligence
- Data Preprocessing Techniques
- Artificial Neural Networks
- Fuzzy Systems and Neuro Fuzzy systems
- Metaheuristic Optimization and its Applications
- AI Techniques for Optimization
- Supervised and Unsupervised Learning
- Soft Computing
- Various AI toolboxes in MATLAB
- Architecture for Real Time Use of AI Techniques
- Renewable and Non-Renewable Energy
- Smart Grid
- Smart Vehicles
- Power System Automation
- Fault Analysis, Diagnostics and Monitoring Through AI Techniques
- SCADA
- Demand Side Management and Response
- Electricity Market Forecasting
- SVM, Decision Tree and Random Forest
- Case Studies

**Faculty conducting this programme:**

The programme will be conducted by the faculty members from Veer Surendra Sai University of Technology, Burla – 768018, Odisha and NIT Warangal. Academicians in the concerned field from IITs/NITs/IIITs/IISERS/NISERS/Abroad are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

**Eligibility:**

The program is open to the faculty of engineering colleges, MCA colleges and other allied disciplines in India. Industry personnel working in the concerned/allied discipline can also attend.

**Registration Fee Particulars:**

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

Participants need to pay the registration fee online using the following details

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

**How to apply:**

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

**<https://forms.gle/rduCUpx3BbRiPjo8>**

**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. In case a candidate is not selected, the DD/online payment 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.

**Important dates:**

<b>Last date for submission of Application</b>	<b>05 / 08 / 2022 (11:59 PM)</b>
<b>Selection List by E- mail</b>	<b>06 / 08 / 2022</b>
<b>Duration</b>	<b>08 / 08 / 2022 (Monday) to 19 / 08 / 2022 (Friday)</b>

**About Veer Surendra Sai University of Technology, Burla:**

Veer Surendra Sai University of Technology (VSSUT), Burla, formerly known as the University College of Engineering (UCE), Burla, is a State Govt. Unitary University located in Burla, Sambalpur, Odisha. Established in 1956, it is the oldest engineering college in Odisha. UCE Burla, its former name, was officially changed to its current name on 12 February 2009, as a result of a resolution by the Govt. of Odisha to accord it with the status of a unitary university. VSSUT was declared to be eligible to receive central assistance under Section 12B of the UGC Act in 2012.

**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. programs in various specializations. All B. Tech. and M. Tech. programmes of NIT Warangal are NBA accredited.

**Coordinator(s):**

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