



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

(8th August 2022 – 19th 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:

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

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

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:

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

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):

Mrs. Debidasi Mohanty Dept. of Electrical Engg., VSSUT, Burla Email: ddmohanty_ee@vssut.ac.in Mobile: +91-8984269183	Dr. Sanjaya Kumar Panda Dept. of Computer Sc. & Engg. NIT Warangal Email: sanjaya@nitw.ac.in Mobile: +91-7978685893
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1. Name :
2. Designation :
3. Institution :
4. Email :
5. Reference No: _____ Bank: _____ Date: _____ Amount: _____
6. Address for Correspondence: _____
7. Educational Qualification: _____
8. Subjects taught so far: _____
9. No. of refresher courses/workshops attended: _____
10. Experience (in years): Teaching: _____ Research: _____ Industry: _____
11. Do you belong to SC/ST : YES / NO

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 Online 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.

Signature of the Applicant

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. is an employee of our Institute/Organization and is hereby sponsored to participate in the Online FDP on “**Applications of AI in Engineering**”, sponsored by Electronics & ICT Academy during **8th – 19th August 2022** at NIT Warangal.

Signature of Head of Institution
(with seal)

Address for correspondence

(Post your application form) at

Dr. Sanjaya Kumar Panda
Assistant Professor
Dept. of CSE
National Institute of Technology
Warangal – 506004
Telangana, India