ONLINE
FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
SMART GRID AND RENEWABLE ENERGY SOURCES
(23rd – 27th September 2024)

Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Andhra Loyola Institute of Engineering and Technology (Autonomous)

Vijayawada-520008, Andhra Pradesh, India.

in Association With

National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh.

(Sponsored by Ministry of Education, Government of India)

Objectives of Course:

The participants shall be able to understand the concepts of Artificial Intelligence in design optimization of various engineering systems. and apply in various engineering fields. This will give the knowledge to implement Artificial Intelligence and optimization techniques in MATLAB for Electrical and Electronics engineering applications. This FDP will cover the following concepts with hands-on sessions.

Major Course Contents:

- **Smart grid fundamentals, architecture, Network communications requirements in terms of protocols, delay, bandwidth, and cost as essential in smart grid security development.**
- **Security aspects in smart grid: network security, data security, cyber security issues**
- **Standards, protocols, secure standards for automation and communication for maintaining cyber security.**
- **IoT applications in smart grid for security.**
- **Advanced Metering Infrastructure Security.**
- **RES integration issues, Wide area measurements: Use of phasor measurement units (PMUs) to ensure accurate time information.**
- **AC/DC, DC/DC micro grids and power electronics applications**
- **Hands on Sessions**

Faculty conducting this programme:

The programme will be conducted by the faculty member from NITTTR, Chandigarh. Academicians from IITs are invited to deliver lectures in the programme. Experts from Industries will also be invited to deliver lectures in this workshop.

Eligibility:

The program is open to the Faculty of Engineering Colleges and other allied disciplines in India. Industry personnel working in the concerned discipline can also attend.

How to apply:

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

https://fdp.nitttrchd.ac.in/backingup/

Selection Criteria:

Selection will be done based on first-come-first-serve basis. The list of selected participants will be intimated through e-mail. Candidates will be issued satisfactory e-certificates on successful completion of the course.

Important dates:

Last date for submission of Application	21/09/2024
Selection List by E- mail	22/09/2024
Duration	23/09/2024 to 27/09/2024

About ALIET:

Andhra Loyola Institute of Engineering and Technology (ALIET) is well known for its academic, placement excellence, and social service, established in the year 2008 at Vijayawada, Andhra Pradesh. An ISO 9001:2015 certified institution. Our Institution is accredited with 'A+' Grade by NAAC. Situated at the foothills of the Eastern Ghats of Vijayawada, the campus of ALIET has a verdant look. This green campus engenders a conducive and serene ambience, giving a fillip to the learners' zeal and enthusiasm. ALIET has an efficient, experienced and dedicated faculty to offer a holistic education to the students. The Andhra Pradesh State Skill Development Corporation (APSSDC) has established a skill development centre in collaboration with Siemens, to train the students. Nearly 3000 students have been trained so far.

About NITTTR Chandigarh:

In realization of the need for training better quality technicians to meet the large scale industrialization of the country, the ministry of Human Resource Development (the then Ministry of Education), Government of India established four Regional Technical Teachers' Training Institutes. It was designed to meet the requirements of developing polytechnic education in the northern region covering the states of Jammu and Kashmir, Himachal Pradesh, Punjab, Haryana, Rajasthan, Uttar Pradesh, Uttrakhand, Delhi and Union Territory of Chandigarh. The Institute is registered under the Societies Registration Act, 1860 and is managed by a Board of Governors.

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SPONSORSHIP CERTIFICATE

1. Name:
2. Designation :
3. Institution :
4. Email :
5. Address for Correspondence:
6. Educational Qualification:
7. Subjects taught so far:
8. No. of refresher courses/workshops attended:
9. Experience (in years):

Teaching: Research: Industry:

Dr. /Mr. /Ms. …….. is an employee of our Institute/Organization and is hereby allowed to participate in the FDP on "SMART GRID AND RENEWABLE ENERGY SOURCES", organized by NITTTR, Chandigarh, during 23rd – 27th September 2024 at Andhra Loyola Institute of Engineering and Technology Vijayawada, Andhra Pradesh.

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.

Signature of Head of Institution (with seal)

Interested faculty members, please register:

https://fdp.nitttrchd.ac.in/backingup/

Remote Center Coordinator:
Dr. V. Anantha Lakshmi,
Assistant Professor,
Dept. of EEE,
Andhra Loyola Institute of Engineering and Technology,
Vijayawada-520008.
Email: anusarkinfo@gmail.com
Mobile:+91 9290812971

Signature of the Applicant