

**National Faculty Development
Programme
on
Electrical and Computer
Engineering
(EACE-2021)
January 4-8, 2021**



Organized by

**Department of Electrical Engineering
National Institute of Technology
Raipur-492 010 (Chhattisgarh)**

**Sponsored by AICTE Training and
Learning (ATAL) Academy and All
India Council of Technical
Education (AICTE) New Delhi**

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IMPORTANT DATES

Last date of receipt of application: 15 Dec 2020

Notification about selection (By Email): 20 Dec 2020

LIST OF SPEAKERS

1. Dr. Bhavesh R Bhalja, Associate Professor, Dept. of Electrical Engineering, IIT Roorkee.
2. Dr. Nita R. Patne, Associate Professor, Dept. of Electrical & Electronics Engineering VNIT Nagpur.
3. Dr. Anamika Yadav Associate Professor, Dept. of Electrical Engineering, NIT Raipur.
4. Dr. Narendra D. Londhe, Associate Professor, Dept. of Electrical Engineering, NIT Raipur.
5. Dr. Kesari Verma, Associate Professor, Dept. of Computer Application, NIT Raipur.
6. Dr. Arnab Ghosh, Assistant Professor, Dept. of Electrical & Electronics Engineering NIT Rourkela.
7. Dr. Bikesh Kumar Singh Assistant Professor, Dept. of Biomedical Engineering NIT Raipur.
8. Dr. Muneendra Ojha, Assistant Professor, Dept. of Computer Science, IIIT Naya Raipur.
9. Dr. Aleena Swetapadma, Assistant Professor, School of Computer Science, KIIT Bhubaneswar.
10. Dr. Varsha Varwandkar, Counselling Psychologist, Raipur.

About the Institute:

National Institute of Technology Raipur situated in the capital of Chhattisgarh, has proven to be "avant-grade" in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon'ble Dr. Rajendra Prasad on 14th September 1956. the institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by our Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railways station and 18 km from airport on NH-6, the Great Eastern Road.

About Departments:

The Department of Electrical Engineering came in existence since 1958. The department offers undergraduate, postgraduate as well as Ph.D. programs. The department is running several sponsored projects from the government organizations and it is one of the leading department of Institute.

The departments provide an outstanding research environment and offers academic program leading to the award of Ph.D. degree. Various multidisciplinary research programs are running in these departments. The Academy is envisioned to become a central hub of research and training activity.

Objectives of the course:

- To develop strong foundation for research in engineering/science fields
- Understanding the concept of AI
- Practical information on design and implementation of AI based schemes/ system
- Applications of AI in fields of Computer and Electrical Engineering.

Theme/Scope:

The goal of this training programme is to bring together the M.Tech and Ph.D. scholars, faculty members, researchers and scientists from universities, research institutes, and industry from all around the nation to exchange new ideas face to face, to establish research or mutual relations and to find opportunities for future collaboration.

Selection : Since the number of seats is limited to **200**, the selection will be made on first cum first basis and intimation will be sent to the candidates by email as per the schedule. However, the coordinator reserves the right of selection of participants subject to availability of resources. Three sessions per day will be conducted.

Resource Persons: Eminent Faculty Members from IITs, NITs, IIITs, and Foreign Universities will deliver the lectures and conduct hands-on sessions.

Programme Certificate:

Participants who attend the programme with minimum 80% attendance would be issued Certificates by AICTE Training And Learning (ATAL) Academy provided they score minimum 60% marks in the online test conducted at the end. The participants also have to provide Compulsory online Feed-back on the last date.

Course Contents :

- Introduction to Artificial Intelligence
- Deep Learning, Convolution Neural Networks
- Machine Learning, Optimization Algorithms
- Visualization, Data Pre-Processing, classification and regression analysis
- AI in Signal processing and Medical applications
- AI in Speech and Image Recognition
- AI in
- Power Systems, FACTS, Distributed Generation, renewable energy system.
- Smart grid, Microgrid
- AI applications in protection of uncompensated and FACTS compensated Transmission lines
- AI application in microgrid, smart grid
- Practical information on design and implementation of AI based system

Mode: Online session will be conducted through Google-Meet.

Registration Charges:- Nil. The applicants are requested to get themselves registered through the following link:

<https://atalacademy.aicte-india.org/signup>

or

<http://www.aicte-india.org/atal>

(Registration will be done ONLY through the above link. There is no registration fee)

Important Information:

- This FDP is only for faculty members, Ph.D. Scholars and M. Tech scholars from AICTE approved technical institutions.
- This course is free for all participants.
- On completion of the FDP an assessment of all participants will be done and digital certificates will be awarded to successful participants by ATAL Academy.