

# Faculty Development Program On AI & ML and its Application

Under the banner of  
**Electronics and ICT academy at National  
Institute of Technology Patna**

**18<sup>th</sup> May to 24<sup>th</sup> May, 2020**



## Patron

**Prof. P. K. Jain**  
Director, NIT Patna

## Coordinators

**Dr. Bharat Gupta, NIT Patna**  
**Dr. Shelly Garg, GNIOT, Gr. Noida**

## Organized by

Electronics and ICT Academy, National Institute of  
Technology Patna, Patna- 800005. India.

[www.nitp.ac.in/ict/](http://www.nitp.ac.in/ict/)

## Supported by

Ministry of Electronics and Information Technology,  
MeitY, Govt. of India.

## About NIT Patna

National Institute of Technology Patna is the 18<sup>th</sup> National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28.01.2004. NIT Patna marked its humble beginning in 1886 with the establishment of pleaders survey training school which was subsequently promoted to Bihar College of Engineering Patna in 1924. This made this institute the 6<sup>th</sup> oldest Engineering Institute of India. The Institute is situated on the south bank of holy river Ganges behind Gandhi Ghat (where the ash of father of the Nation, Mahatma Gandhi was offered in the river Ganges). The campus has a picturesque river view with historic building presenting a spectacle of architecture delight and natural beauty. The Institute imparts high level education training, research and development in science, engineering technology and humanities along with high quality education and values at UG, PG and Ph.D. level. At present the Institute offers courses in six major technical disciplines viz. Architecture, Civil Engineering, Computer Science & Engg., Electrical Engg., Electronics & Communication Engg. And Mechanical Engg. It also consists of well-established departments of Physics, Chemistry, Mathematics and Humanities and Social Sciences.

## Electronics and ICT Academy

Ministry of Electronics and Information Technology, Government of India has instituted seven Electronics and Information & Communications Technology (ICT) Academies of which, the academy of NIT Patna is one. The

Academy at NIT Patna aims to design and organize basic as well as specialized training programmes in niche areas of electronics and ICT for the development of required knowledge base, skills and tools to equip the teaching community with better knowledge and understanding.

## Objective and Scope

**Artificial Intelligence** is a way of **making a computer, a computer-controlled robot, or a software think intelligently**, in the similar manner the intelligent humans think. AI is accomplished by studying how human brain thinks, and how humans learn, decide, and work while trying to solve a problem, and then using the outcomes of this study as a basis of developing intelligent software and systems.

- The objective of the FDP is to introduce fundamentals of data mining and machine learning & AI with real-time applications.
- This FDP will be a very useful platform for faculty and researchers to update their knowledge
- This FDP also focuses on exploring various research opportunities and challenges in the field of machine learning, AI and its applications.
- Learn the various aspects of data handling and how information can be extracted from data.

## Objectives of the Program

- ✚ To impart the knowledge of Machine Learning, artificial intelligence, and its tools and techniques

- To impart the importance of machine learning in industry and academics
- To impart interactive learning through lectures, discussion, and hands-on session on Python.
- To gain experience of doing independent study and research.

### Topics to be covered

- Python for Data Analysis-NumPy
- Python for Data Analysis-Pandas
- Getting Started with Machine Learning
- Logistics Regression using Machine Learning
- Artificial Neural Networks

### Resource Persons

**Industry Experts from Edulabs,** Esoir Business Solution LLP, Gurugram, Haryana, India.

### One-week FDP includes

One week Training will be taken by one Industrial Expert with the experience of 6-8 years in the industry and has delivered more than 1000+ sessions in India and abroad. The training hour is 5-6 hours/ each day. Mode of training is Instructor-led live online

- 40 Hours Instructor-led live online Hands-on based learning & Interactive Query Session.**
- Soft copy of study material, Training PPT's & Projects code
- Participants will get recorded sessions after completion of training.

### Who Can Participate

Faculty members of UGC/AICTE recognized Universities and Engineering colleges all over India, Research scholars (PhD only), students and Industry personals, however priority will be given to the faculty members.

### Registration Fee

- Faculty/ Research Scholar (PhD): Rs. 250/-
- Students: Rs. 250/-,
- Industry and others: Rs. 1000/-

### Registration Process

- Registration fee will be paid though online mode, the account details for this purpose is

**Account Name: NIT Patna**  
**Account No.: 50380476798**  
**IFSC Code: ALLA0212286**

- Link for registration:  
<https://forms.gle/bXBjZn61hYQgYAKE6>
- The brochure of the program may be downloaded from the Institute website [www.nitp.ac.in](http://www.nitp.ac.in).
- Last date of registration: 17.05.2020 (till 14.00 PM)**

**Total -100 seats and the selection will be done on first-cum-first-serve basis.** PDF file of online filled registration form with proof of registration fee paid will be sent through email to **Dr. Bharat Gupta/ Dr. Shelly Garg (email: [eictapatna@nitp.ac.in](mailto:eictapatna@nitp.ac.in) and [hodec@gniot.net.in](mailto:hodec@gniot.net.in)).** Copy to

## Faculty Development Program on **AI, ML & Its Application** (18<sup>th</sup> to 24<sup>th</sup> May, 2020)

### REGISTRATION FORM

- Name (block letter): .....
- Gender: .....
- Caste:.....
- DOB:.....
- Designation .....
- Organization: .....
- Address for communication: .....
- .....
- .....
- Pin code: ..... Ph. No.: .....
- E-mail: .....
- Highest Academic Qualification: .....
- Specialization: .....
- Experience (in years):  
(a) Teaching: ..... (b) Industrial: .....
- Aadhar No:.....

### DECLARATION

I do hereby agree to abide by the rules and regulations of the FDP.

Place: .....

Date:.....

.....  
Signature of the Applicant