

Joint Online Faculty Development Programme

Data Science for All

(NIT Patna, NIT Warangal, IIIT DM Jabalapur)



Jointly Organized By
E & ICT Academy, NIT Patna

July 27 to August 7 , 2020

[Click here to register](#)

Supported By :

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

Academic Level Coordinators :

Dr. Prabhat Kumar, NIT Patna,

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About NIT Patna:

National Institute of Technology Patna is the 18th National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erst while Bihar College of Engineering Patna on 28/01/2004. The Institute imparts high level education training, research and development in science, engineering technology and humanities alongwith 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.

About E&ICT Academy NIT Patna:

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 required knowledge base, skills and tools to equip the teaching community with better knowledge and understanding.

Contact Details: E & ICT Acacemy ,NIT Patna (office)

Website: <http://www.nitp.ac.in/ict/> Email: eictapatna@nitp.ac.in

Landline: 0612 - 237 1715 / 237 2715 (Ext: 344)

http://www.nitp.ac.in/ict/Contact_us.php

Speakers :

- Prof DVLN Somayajulu IIITDM Kurnool
- Prof RBV Subramayam NIT Warangal
- Dr Atul Gupta IIITDM Jabalpur
- Dr T Ramakrishnudu NIT Warangal
- Dr Nagesh Bhattu NIT Andhra Pradesh
- Dr Anand Kumar NITK Surathkal

Course Contents

- **Mathematical Foundations of Data Sciences :**
Matrices, Vectors, Vector Spaces, Matrix Decomposition, Singular Value Decomposition, Statistical Measures, Probability basics, density function, variance, conditional probability, Markov Chains.
- **Data Processing :**
Dimensionality Reduction, Principal Component Analysis.
- **Machine Learning basics :**
Regression, Classification – Decision Trees, Naïve Bayesian Classifier, Clustering, Handling Large Datasets: MapReduce.
- **R for Data Science :**
Data Wrangling, Data Visualization, Programming.
- **Python for Data Science :**
Normal Python, NumPy, Pandas, Matplotlib.
- **Deep Learning**
- **Scikit, Keras and TensorFlow:**
Practice on ML topics.

Course Fee

Certification Fee:

Faculty/ PhD Scholar = **Rs.500/-**
(SC/ST = **Rs. 250/-**)
Others (Except Faculty/PhD-Scholar): **1000/-**
(SC/ST = **Rs. 500/-**)

Online payment details :

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

Link for registration :

<https://forms.gle/N3WZZtJC41E9qHUo8>