



# FACULTY DEVELOPMENT PROGRAMME (FDP) ON DATA SCIENCE

(15<sup>th</sup>- 24<sup>th</sup> May 2021)

Organized by  
**E & ICT Academy, NIT Warangal**  
in association with



**St. Joseph's College of Engineering, Chennai**  
(An Autonomous Institution affiliated to Anna University)

(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's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

## About FDP:

The Faculty Development Programme will help to disseminate the knowledge in the domain of data science and Machine learning. It empowers the participants to understand how data science can be used to innovate and improve the business process. Machine Learning is a fast-growing field of Artificial Intelligence concerned with the study and design of computer algorithms for learning good representations of data, at multiple levels of abstraction. Since data is overwhelming, organizations are struggling to extract the powerful insights they need to make smarter business decisions. The participants will be trained with hands-on approach in order to have an in-depth insight into the domain of Data Sciences and expose them to Feasibility & future scope

## Major Course Contents:

- Introduction to Data Science
- Recommendation Systems
- Introduction to R Language and Statistical Analysis using R
- Introduction to Python
- Analyzing Social Network Graphs
- Data Acquisition and Data Science Life Cycle, Data Visualization
- Introduction to Machine Learning
- Unsupervised Learning Methods
- Supervised Learning Methods
- Linear Regression: Simple and multiple linear regressions
- Optimization methods
- Feature Selection Methods
- Dimensionality Reduction Methods (PCA)
- Hands on sessions on Unsupervised and Supervised Methods
- Supervised Learning Methods on Real Time Applications
- Support Vector Machines and Neural Networks
- Medical Data Analysis

## Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

## Registration Fee Particulars:

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

Participants need to pay the Registration Fee Online using the following details

Online Transfer Details
<b>Account Name: Electronics &amp; ICT Academy NITW</b>
<b>Account No: 62423775910</b>
<b>IFSC: SBIN0020149</b>
Bank and Branch: <b>State Bank of India, NIT (REC) Warangal</b>

## How to apply:

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

<https://forms.gle/1DkMDZYozu2D2PTA18>

## Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 60 (sixty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD 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:

<b>Last date (Application &amp; DD)</b>	<b>12.05.2021</b>
<b>Selection List by E- mail</b>	<b>13.05.2021</b>
<b>Duration</b>	<b>15/05/2021 to 24/05/2021</b>

## 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 programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

## About St. Joseph's:

St. Joseph's College of Engineering is a highly reputed educational institution located in Chennai, India. It was established in 1994 on a sprawling campus at Rajiv Gandhi Salai (OMR). The Institution offers 10 B.E./B.Tech. Degree programmes and 6 PG programmes. It has gained high reputation in the society over the past two decades through academic excellence testified by the number of university ranks and research work. The Institution has consistently stood top among colleges affiliated to Anna University, Chennai. National Institutional Ranking Framework (NIRF) by MHRD, Govt. of India has ranked the college among the top 200 Institutions in India.



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1. Name :
2. Designation :
3. Institution :
4. Email :
5. Mobile No :
- 6.

Reference No:
Amount:
Bank :
Date:

7. Address for Correspondence:
8. Educational Qualification:
9. Subjects taught so far:
10. No. of refresher courses/workshops attended:
11. Experience (in years):  
Teaching:    Research:    Industry:
12. Do you belong to SC/ST :    YES /NO

(If yes, please specify and attach a copy of caste certificate to claim the concession)

### 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.

Date

Signature of the Applicant

### SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. .... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on "Data Science", sponsored by Electronics & ICT Academy during **15<sup>th</sup>- 24<sup>th</sup> May, 2021** at NIT Warangal.

**Signature of Head of Institution (with seal)**

### Address for correspondence

Post your application form

### **Dr. V. MUTHULAKSHMI**

Associate Professor  
Department of Information Technology  
St. Joseph's College of Engineering  
OMR, Chennai – 600119  
Tamil Nadu, INDIA

It is requested to all the delegates, after completion of application form, all the payment details, screenshot of the payment and scanned application form has to be uploaded in the following online registration link.

### **Registration Link:**

For more details about Electronics & ICT Academy, NIT, Warangal, please visit:

<https://nitw.ac.in/eict>

For more enquiries please contact:

**Dr. V. Muthulakshmi**

**Mobile: 09944987551**

**Email: [hoditlabaffairs@stjosephs.ac.in](mailto:hoditlabaffairs@stjosephs.ac.in)**

**[fdp.eict@gmail.com](mailto:fdp.eict@gmail.com)**

## Coordinators

### **Dr. M. Srinivas**

Ph.D. (IITH), Post-Doc (Academia Sinica, Taiwan and ETS, Canada)  
Computer Science and Engineering  
NATIONAL INSTITUTE OF TECHNOLOGY  
WARANGAL – 506 004 (Telangana State)  
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### **Dr. V. Muthulakshmi**

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