



FACULTY DEVELOPMENT PROGRAMME

on

Mathematical Foundations for Data Science (Online Mode)

(14th February 2022 to 18th February 2022)

Organized by

Center for Continuing Education, Dept. of CSE, & Dept. of Mathematics
National Institute of Technology- Warangal

About the 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. Data Science 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
- Data Science Tools-Python and R
- Mathematical foundation for Data Science
 - Linear Algebra and Probability-Data Distributions and Estimation-Statistics for Data Science -Hypothesis testing
 - Regression and Correlation Analysis
- Data Visualization and Exploratory data analysis
- Data Science Model Building
 - Mathematical Modelling-Model Building with Python/R
- Machine Learning for Data Science

Course Objectives:

- Acquire mathematical foundation on data science.
- Build and deploy data science model.
- Apply machine learning techniques to a build data model.
- Stay Industry relevant and grow in career.

Organized at:

The program will be coordinated and conducted by Dept. of CSE, at NIT Warangal. The whole course is handled by academicians and industry experts.

Resource Persons:

The Sessions will be handled by the experts From IITs/NITs/ Industries.

Eligibility:

The program is open to all Faculty, Research Scholars, Scientists/Industry Professionals and other eligible students can register the course.

How to apply:

Interested candidates can apply online by clicking below link.

<https://docs.google.com/forms/d/e/1FAIpQLSf9yBAGLRNquBbngOt-8SMFV2DqHZ7YjgURittzUVth4fofjg/viewform?vc=o&c=o&w=i&flr=o>

Participants details need to be filled and payment details uploaded by using above link in Google Forms **on or before 10th February, 2022.**

Important dates:

Last date to receive application & DD: **10th February, 2022**

Selection-list intimation by email: **11th February, 2022**

Duration of Program: **14th February 2022 to 18th February 2022**

Timings: 4 PM - 7PM

Registration Fees:

Faculty: **500 (Five hundred only).**

Industry Professionals: **1000 (One Thousand only).**

For Foreigner: **50 USD Dollars.**

Bank Account Details:

Account Name	CCE NITW
Bank Name	SBI
Account No	62403680215
IFSC Code	SBIN0020149
Branch	NIT Warangal

Confirmation mails will be sent two days before the Programme. Once Paid/Registered Participation is Confirmed.

The interested individuals may register on the FCFS basis the seats are limited to 250 only.

E-Certificate: Participants will get e-certificate upon completion of the course.

About the Institute, department and Warangal:

National Institute of Technology (formerly Regional Engineering College), 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 Institution imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering and M.Tech. and Ph.D programs in various specializations. Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 140 km. from Hyderabad. Warangal is well connected by rail and road. National Institute of Technology campus is 2 km. away from Kazipet junction and 12 km. away from Warangal station.



About Center for Continuing Education:

The Center for Continuing Education NIT Warangal organizes FDPs/Training programmes/Seminars/Workshops etc., in the frontier areas of Science, Engineering, Technology, Management, Humanities, Social Science and Socially relevant themes on self-financing basis in three different modes: (i) At NIT Warangal (ii) At NIT Warangal in collaboration with other organizations/ Engineering Colleges / Institutes iii) By NIT Warangal Faculty at the Host Organization/Institute.

About Department of CSE:

The Department of Computer Science and Engineering (CSE) offers B.Tech course in CSE, M.Tech courses in CSE, Information Security (IS) and Master of Computer Applications (MCA). The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Accenture, Infosys, TCS, EMC2, C-DAC, Motorola, NIC, Sun Micro Systems, SPSS and tie up with IISc in certain areas. Department conducts various sponsored programmes like GIAN, International and national conferences throughout the year.

About Department of Mathematics:

The Department of Mathematics is a highly reputed department which functions with excellence as its motto. The Dept. was started in 1959 along with the other Engineering and Science Departments and has established itself as a dynamic center for academic and research activities. The faculty members are actively engaged in research in diverse fields such as Mathematical modeling, Numerical Analysis, Fluid Mechanics, Geophysical fluid dynamics, Bio Mechanics, CFD, Operation Research, Linear Algebra and Coding Theory. The Dept. has so far produced 110 Ph.D.'s and presently 40 Research Scholars are working. AICTE recognized the Dept. as QIP centre for Ph.D. The Department offers M.Sc. (Applied Mathematics) and M.Sc. (Mathematics and Scientific Computing) Courses.

Address for Correspondence

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