ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
DATA SCIENCE AND MACHINE LEARNING
(26th August 2022 – 4th September 2022)
Timing: 3 PM to 7 PM
Organized by
E & ICT Academy, NIT Warangal, Telangana
in association with
School of Information Technology and Engineering (SITE)
Vellore Institute of Technology, Vellore, Tamilnadu
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 role is to offer faculty development programmes (FDPs) in standardized courses and emerging areas of electronics, information communication technologies, training and consultancy services for Industry, curriculum development for Industry, CEP for working professionals, advice and support for technical incubation and entrepreneurial activities.

This Online FDP is devoted to address the need to enhance the knowledge about the latest development pertaining to **Data Science and Machine Learning** is being conducted at **SITE, VIT Vellore, Vellore – 632014, Tamil Nadu**. The whole course is handled by academicians and industry experts.

Major Course Contents:

- Introduction to Data Science and Machine Learning
- Python Environment, Setup and Essentials
- Exploratory Data Analysis
- Data Pre-processing
- Mathematical and Scientific Computing with Python
- Neural Networks
- Probability and Statistics for Data Science
- Random Variables and Distributions
- Supervised, Unsupervised and Semi-Supervised Learning
- Regression Techniques and Implementations using R
- Data Visualization Techniques using R
- Nearest Neighbor Based Classifiers
- Bayesian Learning
- Natural Language Processing
- Clustering Paradigms and Associated Algorithms
- Reinforcement Learning
- Applied Machine Learning using Open-Source Tools
- Decision Trees and Evaluation Parameters for Classifiers
- Recommender Systems
- Advanced Recommender Systems
- Case Studies on Data Science and Machine Learning

Faculty conducting this programme:

The programme will be conducted by the faculty members from **SITE, VIT Vellore, Vellore – 632014, Tamil Nadu** and NIT Warangal. Academicians in the concerned field from IITs/NITs/IIITs/IISERs/NISERs/Abroad are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

Eligibility:

The program is open to the faculty of engineering colleges, MCA colleges and other allied disciplines in India. Industry personnel working in the concerned/allied discipline can also attend.

Registration Fee Particulars:

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

Participants need to pay the registration fee online using the following details

Online Transfer Details
Account Name: Electronics & ICT Academy NITW
Account No: 62423775910
IFSC: SBIN0020149

How to apply:

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

https://forms.gle/daY742eNmR8HfxhT8

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 100 (hundred). The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD/online payment 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:

Last date for submission of Application	22 / 08 / 2022 (11:59 PM)
Selection List by E- mail	25 / 08 / 2022 (11:59 AM)
Duration	26 / 08 / 2022 (Friday) to 04 / 09 / 2022 (Sunday)

About VIT Vellore:

Vellore Institute of Technology was founded in 1984 as Vellore Engineering College by the Chancellor Dr. G. Viswanathan. Students from more than 60 countries are studying at VIT. It is now the 9th best University of India, 10th best in research, 12th best in engineering, and 18th best in overall categories as per NIRF 2022. National Assessment and Accreditation Council (NAAC) has accredited VIT with the highest grade A++ in 2021 (4th cycle). It is one of the top 10 institutions of India and within the top 801-900 Universities of the world as per Shanghai ARWU Ranking 2021.

The School of Information Technology & Engineering (SITE) emphasizes the fields of Information Technology, Software Engineering and Domain Specific Applications so as to facilitate the evolution of skills in students to help them attain a higher degree of knowledge, global competency and excellence, for the betterment of the society.

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

Coordinator(s):

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