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- Mr. Hridayesh Gupta, Assistant Professor, Department of CSE
- Mr. Praveen Kumar Tomar, Assistant Professor, Department of CSE

Organizing Committee Members

- Dr. Aadarsh Malviya, Associate Professor, Department of CSE
- Mr. Suman Jha, Assistant Professor, Department of CSE
- Mr. SreenuBanoth, Assistant Professor, Department of CSE
- Mr. Rajat Varshney, Assistant Professor, Department of CSE
- Ms. Pragya Singh, Assistant Professor, Department of CSE
- Ms. Sureshvati Devi, Assistant Professor, Department of CSE
- Mr. Anurag Upadhyay, Assistant Professor, Department of CSE
- Ms. Nandini Tomar, Assistant Professor, Department of CSE
- Ms. Deepshikha, Assistant Professor, Department of CSE
- Mr. ShivamAwasthi, Assistant Professor, Department of CSE
- Mr. Anuj Kumar, Assistant Professor, Department of CSE
- Ms. Niharika Namdev, Assistant Professor, Department of CSE
- Ms. Shilki, Assistant Professor, Department of CSE
- Ms. Anita Rana, Assistant Professor, Department of CSE

IT Coordinator

- Mr. Anurag Upadhyay, Assistant Professor, Department of CSE

Resource Persons

- Dr. Avunjit Chaudhary, CEO, Enterprise Building Training Solutions (EBTS), Thane (W), Maharashtra
- Dr. A M Govind Kumar, SeaportAI, Director-PDBD and Vice President-ZebPay, New Delhi
- Dr. A. Murlu Rao, Director (Computer Science), IGNOU, New Delhi
- Dr. Nanhey Singh, Professor Computer Science & Engineering, NSUT, New Delhi
- Dr. Karan Singh, Professor Computer Science, JNU, New Delhi
- Dr. Jyoti, Professor, Thapar Institute of Engineering and Technology, Patiala, Punjab
- Dr. Anu Bajaj, Professor, Thapar Institute of Engineering and Technology, Patiala, Punjab

IIMT
COLLEGE OF ENGINEERING
Greater Noida



— Aim For Excellence —

[Approved by AICTE & Affiliated to Dr. APJ Abdul Kalam Technical University, Uttar Pradesh, Lucknow]

Department of Computer Science & Engineering Organising Faculty Development Program (2022-23)

on

“DATA ANALYTICS AND MACHINE LEARNING”

DURING

5th Dec., 2022 - 10th Dec., 2022 | 16th Dec., 2022 - 20th Dec., 2022
(1st Week Online Mode) | (2nd Week Offline Mode)

SPONSORED BY -



Plot No. 19 & 20, Knowledge Park - III Greater Noida - 201310, Uttar Pradesh, India



www.iimtindia.net



About the Institute

The IIMT Group of Institutions established in 1994, one of pioneering Academic Institution in Greater Noida, committed to provide a value driven culture in a professional environment, is engaged in imparting education in the field of Engineering, Management, Education and Law.

IIMT College of Engineering is privileged to have Incubation Centre by MSME, under which various sponsored projects are running.

VISION

To be among the renowned Institutions providing Engineering and Management Education of Excellence, Empowered with Research, Innovation and Entrepreneurship with high ethical values, catering to the needs of industry and society.

MISSION

- To offer state of the art undergraduate and postgraduate program.
- To be a learner centric institute imbibing experimental innovation and lifelong learning skills, addressing societal problems with high ethical values for nation building.
- To deliver changing demands of industry and academia through our stakeholders.
- To contribute as a professional leader in the growing field of entrepreneurship and research

About The Department

The Department of **Computer Science & Engineering** offers B.Tech course, lays emphasis on deep understanding of fundamental principles, knowledge of Computing Devices, logic, circuits and computer architecture. The department has well equipped Computing Labs. along with latest softwares. The department has well qualified Faculties with PhD / M.Tech. qualifications from reputed institutions.

VISION

To produce globally competent Computer Science engineers empowered with research aptitude and high ethical values to cater to the emerging computing needs of the industry and society.

MISSION

Preparing graduates-

- To impart outcome based learning for emerging technologies in the field of computer science & engineering.
- To promote creative thinking and innovations by the students and faculty.
- To develop strong industry-academia relationship.
- To nurture students and infuse professional ethics, human values and positive attitude in the students.

Content of FDP to be covered

The Faculty Development Program aims at providing a platform, wherein eminent speakers from industry and academia share their knowledge of Data Science with participants.

- Introduction to Data Science
- Data Pre-processing using Python
- Data Analysis and Regression Techniques
- Introduction to Machine Learning Paradigm
- Supervised Learning
- Feature Engineering
- Feature Selection
- Unsupervised Learning
- Dimension Reduction
- Reinforcement Learning/ Deep Learning
- Applications of Data Science
- Hands on Sessions using Python/MATLAB

Contact Person

Prof. (Dr.) Prabhat Kumar Vishwakarma,

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Targeted Participants

Faculty members of the AICTE approved institutions, research scholars, PG scholars, Government officers /personnel, bureaucrats, technicians, researchers, practitioners, industry personnel and staff of host organizations.

Registration Fees

FREE for ALL participants



Selection Process

A limited number of seats are there. So, registered candidates will be selected for participation on first-cum-first-serve basis and selected candidates will be intimated through email only.



Schedule (Session Wise Planning) / 1st Week (Online Mode)

Day	Date/Time	Session-I	Break	Session-II	Break	Session-III
		7:00 PM - 07:50 PM		08:00 PM - 08:50 PM		09:00 PM - 09:30 PM
Day-1	05-12-2022 (Monday)	Inauguration		Introduction to Data Science		Data Pre-Processing using Python
Day-2	06-12-2022 (Tuesday)	Data Analysis & Regression Techniques		Machine Learning Paradigm		Supervised Learning
Day-3	07-12-2022 (Wednesday)	Feature Engineering		Feature Selection		Unsupervised Learning
Day-4	08-12-2022 (Thursday)	Dimension Reduction		Reinforcement Learning		Deep Learning
Day-5	09-12-2022 (Friday)	Applications of Data Science		Data Modelling : Predictive Modelling		Data Modeling : Fitting a Model
Day-6	10-12-2022 (Saturday)	Data Clustering : Hierarchical clustering		Association and Co-occurrences : ItemsThat goTogether		Association and Co-occurrences : Measuring Surprise

Schedule (Session Wise Planning) / 2nd Week (Offline Mode)

Day	Date/Time	Session-I	Break	Session-II	Lunch Break	Session-III	Break	Session-IV
		09:00 AM - 10:30 AM		10:40 AM - 12:40 PM		01:40 PM - 03:00 PM		03:10 PM - 05:00 PM
Day-1	16-12-2022 (Friday)	RAS Calculator Application		Descriptive Statistics In R		Reading And Writing Different Types of datasets		Visualizations
Day-2	17-12-2022 (Saturday)	Correlation And Covariance		Regression Model		Multiple Regression Model		Regression Model For Prediction
Day-3	18-12-2022 (Sunday)	Classification Model		Clustering Model		R script to find basic descriptive statistics using summary, str, quantile function on mt cars & cars datasets		R script to find subset of dataset by using subset (), aggregate () functions on iris dataset
Day-4	19-12-2022 (Monday)	Reading different types of datasets (.txt, .csv) from web and disk and writing infile in specific dislocation.		Reading Excel datasheet in R		Reading XML data set in R		Choose classifier for classification problem
Day-5	20-12-2022 (Tuesday)	Evaluate the performance of classifier		Project/Test (MCQ/Objective)		Solution Discussion		Valedictory