

REGISTRATION FORM

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Name:.....

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Category (Gen/OBC/SC/ST) :

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SPONSORSHIP CERTIFICATE

Mr./Ms.

Designation has been authorized to attend all sessions

of the FDP during the period from 17th Nov. 2018 to 21st Nov. 2018 at

Department of CSE, SAGE University Indore.

Authorised Signature

"Winning Award is a Habit @ SU"



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SAGE UNIVERSITY
Transforming Your Passion into Profession



FACULTY DEVELOPMENT PROGRAM On DATA SCIENCE USING PYTHON PROGRAMMING

17th November to 21st November 2018



Organized By

**Department of Computer Science & Engineering
SIRT, SAGE University, Indore**

Supported by

Electronics & ICT Academy, PDPM IIITDM, Jabalpur

An Initiative of

**Ministry of Electronics & Information Technology
Government of India**

Venue

**Department of Computer Science & Engineering,
SIRT, SAGE University, Indore**

ABOUT SAGE UNIVERSITY

SAGE University (SU) where technology, innovation and entrepreneurship come together to create a dynamic learning environment. Established by the legendary SAGAR Group of Education Society of central India. The SAGE Group is bringing the happiness to society since 1983 and currently under the umbrella of SAGE Group more than 9000 students are getting quality education. SU has been established by an Act of State Government of Madhya Pradesh, in exercise of powers conferred by Sub-Section (1) of Section 28 of the Madhya Pradesh Niji Vishwavidyalaya (Sthapna avam Sanchalan) Adhiniyam, 2007, as notified by the Higher Education Department, State Government of M.P. in the Ordinary Gazette of M.P. SU is located in the lush green environment away from hustle and bustle at the hill top in Indore.



ABOUT SIRT & CSE DEPARTMENT

SIRT Indore offers education with a purpose of generating excellent technocrats, smart managers and noble human beings. Our Vision is not to create road map only, but the compass to lead to metamorphose every individual aspirant of the country into a truly potential global technocrat preserving the traditional, moral and ethical values of our nation by means of delivering exemplary education and aggrandized further within high-tech discipline academic environment.

The Department of Computer Science and Engineering (CSE) established in the year 2005 with the aim of providing inclusive technology education to students from all over India and the world and thereby creating responsible citizens who would contribute to the betterment of their families, society and nation. The department offers B.Tech., M.Tech., Ph.D. & Diploma programs.

The vision of CSE department is to produce most favorable environment for quality and research oriented education in CSE.

About Electronics & ICT Academy, IIITDM, Jabalpur

Ministry of Electronics and Information Technology, Government of India has instituted four Electronics and ICT Academies with one academy at IIITDM Jabalpur with the primary objective preparing manpower for two important missions - 'Digital India' and 'Make in India'. The Academy aims at the design and implementation of scalable training programmes in niche areas of electronics and ICT for the development of required knowledge base, skills and tools to unleash the talent of Indian population. The Academy at IIITDMJ will partner with IIITM Gwalior, MANIT Bhopal, and IIT Indore run high quality specialized courses for faculty, students and unemployed graduates. In addition, the Academy will conduct customized training programmes and research promotion workshops for corporate sector and educational institutions. The Academy is envisioned to become a central hub of activities on training, consultancy work and entrepreneurship programmes.

About Data Science & Python

Data science is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from data in various forms, both structured and unstructured, similar to data mining. Data science is a concept to unify statistics, data analysis, machine learning and their related methods in order to understand and analyze actual phenomena with data. It employs techniques and theories drawn from many fields within the context of mathematics, statistics, information science, and computer science.

OBJECTIVES

The main objectives of this FDP are to:

1. Imbibe the principles of Data Science and to learn Python for exploring data science concepts.
2. Develop proficiency in using python data stack and libraries.
3. Learn how to employ statistical and machine learning algorithms to solve real life problems.

IMPORTANT DATES

- Last date of Online Registration : **10th Nov. 2018**
- Spot Registration will be permitted subject to availability of seats.
- Course Dates : **17th Nov. to 21st Nov. 2018**

COURSE CONTENTS

DAY 1: Introduction of Data Science, Crash Course on Basic Python, Introduction to data types, operations, data distributions.

DAY 2: Data Science with Numerical Data, Statistics, Correlation, Covariance, Noise, Cleaning of Data, Feature Selection, PCA and LDA.

DAY 3: Data Science with Text Data, basic tasks in NLTP, Real world Example, Data Science with Image, Basics of Image processing, Filters Dilation, Erosion, Opening closing.

DAY 4: Introduction to Machine Learning, Regression Models, Classifiers Clustering, Examples, Relating Data science and Machine Learning.

DAY 5: Introduction of Neural Networks, Introduction to Deep Learning, RNN, CNN, Demo Examples, Some Advanced topics of Data Science.

Contact :

Ms. Ayushi Godiya 95166 48438

Ms. Vaishali Thakur 78289 48002

RESOURCE PERSONS

1. **Prof. Amay Karkare**, CSE Department, IIT, Kanpur
2. **Prof. Aparajita Ojha**, CSE Department, IIITDM, Jabalpur
3. **Dr. Atul Gupta**, CSE Department, IIITDM, Jabalpur

WHO SHOULD ATTEND

This program is open to faculty and research scholars from all the colleges and universities. Industry personnel working in the concerned/allied discipline may also apply.

HOW TO APPLY

Interested candidate can fill the registration form online at <https://goo.gl/forms/PC2XdsAazfb1XBcE2> upload receipt on or before Date **10th November 2018**

REGISTRATION FEES

1. Faculty & Delegates Research scholars(Local) : **Rs. 1000/-**
2. Industry Delegates : **Rs. 5000/-**
3. Accommodation charges for out station participants : **Rs. 2500/-**

You can also make online payment as per the following information:

Name of Bank: **PUNJAB NATIONAL BANK, NAVLAKHA, INDORE**

ACCOUNT NO : **3238002100016802**

IFSC CODE : **PUNB0323800**

Account Type : **Current**

