

**AICTE Training and Learning (ATAL) Academy
Sponsored**



**One week Faculty Development Program
(FDP) on**

“Data Science and its Applications”

(Course Code: AVDR0156)

From

9th December to 13th December 2019

REGISTRATION FORM

Name:

Designation:

Organization:

Qualification:

Correspondence Address:

Tel. (O) (R)

(M)

E-Mail:

Accommodation Required: Yes / No

Date: Place:

Signature of Participant

- ❖ Online registration can be done through the link provided on institute website www.nitr.ac.in OR
- ❖ ATAL Academy website(Course Code:AVDR0156) <https://www.aicte-india.org/sites/default/files/ATAL/registration/>

Chief Patron
Prof. A.M. Rawani
Director, NIT Raipur

Patron
Dr. S. Gupta
Dean (R&C), NIT Raipur

Course Coordinators

Dr. Pradeep Singh
(Assistant Professor &Head)
&

Dr. Dilip Singh Sisodia
(Assistant Professor)

Department of Computer Science and Engineering
(CS&E), National Institute of Technology (NIT) Raipur

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Dr. Dilip Singh Sisodia (Email: dssisodia.cs@nitrr.ac.in)
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&

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Important Information:

- ❖ This FDP is only for faculty members & Ph.D. Scholars from AICTE approved technical institutions.
- ❖ This course is free for all participants.
- ❖ Only tea during sessions/working lunch will be provided to the participants.
- ❖ No TA/DA will be paid to any participant.
- ❖ Only limited shared accommodation (paid) in hostels may be provided to selected outsider participants on request and subject to availability.
- ❖ Participants will have to make their own stay arrangement during the five days.
- ❖ On completion of the FDP an assessment of all participants will be done and certificates will be awarded to successful participants by respective ATAL Academy.

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Data Science and its Applications

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Coordinators

Dr. Dilip Singh Sisodia

Dr. Pradeep Singh

Organized by



**Department of Computer Science &
Engineering
National Institute of Technology Raipur
(An Institute of National Importance)
G.E. Road, Raipur-492010, Chhattisgarh, India**

About the Institute



National Institute of Technology Raipur situated in the capital of Chhattisgarh, has proven to be "avant-grade" in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon'ble Dr. Rajendra Prasad on 14th September 1956. The institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by our Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railways station and 18 km from airport on NH-6, the Great Eastern Road.

About Department

The Department of Computer Sc. & Engineering was established in the year 2000. Currently, the Department offers B. Tech. with an intake of 102 and Ph. D. programmes in of Computer Science & Engineering. At present, the department has eight faculty members. The department has carried out active research in different fields of computer science and engineering.

Workshop Objectives

The workshop is aimed at imparting knowledge and training on the fundamentals of data science and its applications. The main objective is to make the participants familiar with data science and information retrieval techniques. Expert lectures will be delivered by faculty members from academia. This programme may be beneficial to Faculty members & Research Scholars who intend to practice/begin research in the field of processing and analysis of data using advance techniques such as AI/ML/DL etc.

The workshop is proposed to give an exposure to faculty and scholars to understand the techniques used in extracting valuable insights from vast amount of heterogeneous data using Data Science techniques. An entire session will be available for participants to discuss individual problems with the session experts. By the end of the FDP participants may be able to understand the basics of data science techniques such as classification/regression techniques, Model selection and evaluation procedures, unsupervised learning, dimension reduction techniques and applications of data science. Even more, there are Hands-on sessions (using MATLAB/Python/R) to make familiar with topics.

Important Information for Participants

- Seats are limited only 50 and the participants are selected on the basis of first come first serve basis.
- However, the course coordinators reserve the right of selection of participants subject to availability of accommodation/other resources.
- Intimation regarding selection will be sent to the candidates via email as per the schedule.
- Certificates will be issued to the participant's only after attending the complete course and post course successful assessment/quiz test.
- No TA/DA will be paid to the participants.
- However paid accommodation may be provided to outside candidates at the institute hostels, provided request for the same is made in the registration form, well in advance.

Topics to be Covered

This workshop will help you learn the foundations of Data Science and its applications in various fields. Keeping this in mind, we have proposed the following topics (but not limited) to be discussed during the short term programme.

- Introduction to Data Science
- Data pre-processing using Python/R programming
- Data analysis and regression techniques
- Machine Learning Techniques
- Supervise Learning
- Feature Engineering
- Feature selection
- Unsupervised Learning
- Dimension Reduction
- Introduction to Reinforcement Learning / Deep Learning
- Applications of Data Science in various fields
- Hands-on Session using MATLAB /Python/R.

About Speakers & Participants:

Speakers:

Experts from reputed organizations will be delivering the lectures and conduct hands-on sessions.

Target Participants:

Faculty members & Research Scholars from AICTE approved technical institutions.

Important Dates & Registration

- ❖ Last date of registration on or before 10-11-2019.
- ❖ Confirmation of participation to selected participants only on or before 15-11-2019 through E-mail only.
- ❖ FDP is schedule from **9th December to 13th December 2019**
- ❖ Online registration can be done through the link provided on institute website www.nitr.ac.in or ATAL Academy website(Course Code:AVDR0156) <https://www.aicte-india.org/sites/default/files/ATAL/registration/>