



# TECNIA

INSTITUTE OF ADVANCED STUDIES

NAAC ACCREDITED GRADE "A" INSTITUTE

DELHI | INDIA

## MASTER OF COMPUTER APPLICATIONS

### VALUE ADDED COURSE

Session 2019-2020

# DATA SCIENCE

## CERTIFICATE COURSE IN DATA SCIENCE

### Preface:

Value Added Courses are designed to raise students' Level above and beyond the academic curriculum. Envisage Modern Tool Usage, Learners to up-skill their skillsets; Bridging the gap between academia and corporate requirements; VAC Certificate In Office Automation will ne able to attain as under:-

- Broadening of Domain Knowledge
- Apply techniques of appropriate software's validation
- Acquire technical skills to lead as productive IT Professional
- Enhancing Employability

### Learning Outcomes:

At the end of this Course student will be able to:

- Demonstrate understanding of the mathematical foundations needed for data science.
- Collect, explore, clean, munge and manipulate data.
- Implement models such as KNN, Naive Bayes, linear and logistic regression & decision trees.
- Build data science applications using Python based toolkits.

### Note:

- Batches will commence w.e.f 16.09.2019 from 02:00 p.m. to 03:00 p.m.
- Each batch shall comprise of 60 students only.
- Minimum 75% attendance is required by the candidate for assessment.
- Assessment will be made on the basis of Viva Voce and written/Practical Exam.
- Successful learners after assessment will get the certificate of the VAC.

Duration: 30 Hours

Timing: 2:00 to 3:00 P.M

### Resource Person

Ms. Sania

### Registration Date :

26.08.2019 – 05.09.2019

### VAC Contents :

- Introduction to Data Science. (1 Hrs)
- Mathematics and Statistics for Data Science. (2 Hrs)
- Programming for Data Science. (4 Hrs)
- Data Wrangling and Pre-processing. (2 Hrs)
- Exploratory Data Analysis (EDA). (2 Hrs)
- Machine Learning Algorithms. (5 Hrs)
- Big Data Technologies. (3 Hrs)
- Data Mining and Pattern Recognition. (3 Hrs)
- Deep Learning and Neural Networks. (4 Hrs)
- Data Visualization and Communication. (2 Hrs)
- Ethical and Legal Considerations in Data Science. (2 Hrs)

*For any queries related to the VAC Certification course, Please Feel Free to Contact*

**Mr. Mohit**, VAC Coordinator

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