

POST GRADUATE DIPLOMA COURSES

PG DIPLOMA IN DATA SCIENCE

Today, data is at the heart of every successful organization, with data professionals playing a pivotal role in business decisions. This program is ideal for all working professionals and prior programming knowledge is not required. It covers job-critical topics like data analysis, data visualization, regression techniques, supervised learning and unsupervised learning in-depth.

Duration – One year

Eligibility – Graduates who have studied mathematics or statistics as cognate subjects and secured 40% in the cognate subject and 50% marks in aggregate of all optional subjects at the degree level or B.C.A with Mathematics up to +2 are eligible.

Outcome – Students will be industry-ready with the following knowledge:

1. Mathematical foundation, statistical and machine learning theories for analytics
2. Programming skills to implement the analytics and machine learning concepts
3. Basic concepts of economics, accounts, ethical aspects of data analytics and so on

Syllabus -

SUMMARY OF CREDITS

<u>Semester 1</u>	Title	Number of Hours of teaching per week	Number of credits
Theory	Data Analysis Using Excel	4	4
Theory	Business Communication	2	2
Theory	Analytics with R & Tableau	4	4

Theory	Database Management Systems	4	4
Theory	Ethics in Data Science	3	3
Practical	Data Analysis Using Excel Lab	2	1
Practical	Analytics with R & Tableau Lab	2	1
Practical	Database Management Systems Lab	2	1
Total Credits		20	
<u>Semester 2</u>	Title	Number of Hours of teaching per week	Number of credits
Theory	Python Programming	4	4
Theory	Business Analytics	4	4
Theory	Data Mining and predictive Analytics	4	4
Theory	Time Series Model	4	4
Theory	Information Technology	4	4
Practical	Python Lab	2	1
Practical	Data Mining and predictive Analytics Lab	2	1

Practical	Project/Internship Work		10
Total Credits		32	