

(Bachelor of Vocation) – Data Analytics

Duration: 3 Years (6 Semesters)

Program Type: Undergraduate Degree Program

Total Credits: 120–132 Credits (as per UGC . Guidelines)

Note: Subject codes may vary by university. The following is a standard university-style syllabus structure.

Semester I

Subject Code	Subject Name	Credits
DA101	Fundamentals of Information Technology	4
DA102	Mathematics for Data Analytics	4
DA103	Business Communication	3
DA104	Programming Fundamentals using Python	4
DA105	Computer Applications	3
DA106P	Python Programming Lab	4

Semester II

Subject Code	Subject Name	Credits
DA201	Database Management Systems	4
DA202	Statistics for Data Analytics	4
DA203	Data Visualization Techniques	4
DA204	Web Technologies Fundamentals	3
DA205	Environmental Studies	2
DA206P	Database & Visualization Lab	4

Semester III

Subject Code	Subject Name	Credits
DA301	Data Mining Concepts	4
DA302	Data Warehousing	4

Subject Code	Subject Name	Credits
DA303	Advanced Python for Analytics	4
DA304	Business Intelligence	4
DA305	Professional Ethics & Soft Skills	2
DA306P	Data Mining Lab	4

Semester IV

Subject Code	Subject Name	Credits
DA401	Machine Learning Fundamentals	4
DA402	Big Data Analytics	4
DA403	Predictive Analytics	4
DA404	Cloud Computing Basics	3
DA405	Internship-I	4
DA406P	Machine Learning Lab	4

Semester V

Subject Code	Subject Name	Credits
DA501	Artificial Intelligence for Analytics	4
DA502	Data Security & Privacy	4
DA503	Business Analytics	4
DA504	Data Governance & Compliance	3
DA505	Project Work-I	4
DA506P	Analytics Tools Lab (Power BI/Tableau)	4

Semester VI

Subject Code	Subject Name	Credits
DA601	Advanced Data Analytics	4
DA602	Deep Learning Fundamentals	4
DA603	Industry 4.0 & Analytics Applications	3
DA604	Entrepreneurship Development	3
DA605	Major Project / Dissertation	8

Subject Code	Subject Name	Credits
DA606	Viva Voce	2