

Business Analytics-III

Course Name	Business Analytics-III		
Course code	ODS2603		
Course credit	3		
Trimester	III		
Course Level Goal (CLGs)	This course aims to equip students with the knowledge and skills required for advanced analytics using Python in the context of business. Students will develop a solid understanding of Python programming, data manipulation, and various regression models. Upon completion, they will be proficient in leveraging Python for data-driven decision-making and solving complex business challenges.		
Course Outcomes (COs)	Course Outcome	Bloom's Taxonomy Category	Level Number
	CO1: Recall and understand advanced analytics concepts and techniques	Remember, Understand	Level 1, Level 2
	CO2: Apply analytics models and tools to complex business datasets	Apply	Level 3
	CO3: Analyze business trends and patterns using multivariate analysis	Analyze	Level 4
	CO4: Evaluate predictive models and data-driven strategies	Evaluate	Level 5
	CO5: Create advanced analytics solutions and dashboards	Create	Level 6
Pre-Requisite	Business statistics		
Course Outline	Module 1: Introduction to Python for Data Analytics Python Environment Setup and Installation (2 hours) Introduction to Python IDE and Jupyter Notebook (2 hours) Variables and Dictionary in Python (2 hours) Datatypes and Operators in Python (1 hour) Module 2: Control Flow and Functions in Python If, Elif, and Else Statements (1 hour) For and While Loops (1 hour) Break, Continue, and Pass (1 hour)		

	<p>Functions and Object-Oriented Programming in Python (1 hour)</p> <p>Module 3:</p> <p>Data Manipulation and Computation with Python Libraries</p> <p>Mathematical Computation in Python using NumPy (2 hours)</p> <p>Scientific Computation in Python using SciPy (2 hours)</p> <p>Data Manipulation in Python using pandas (4 hours)</p> <p>Module 4:</p>
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	Regression Models in Business Analytics Data Cleaning Techniques (2 hours) Correlation Analysis (2 hours) Analytical Framework for Simple Linear Regression (2 hours) Introduction to Multiple Linear Regression and its Applications (2 hours) Logistic Regression Model and its Applications (4 hours)
References	Python programming- Reema Thareja- Oxford publishing Deep Learning using Python- Rose-Wiley