

Data Analytics Course Syllabus (6 Months)

Course Duration: 6 Months | Schedule: 3 Days/Week | Class Duration: 2 Hours | Total Hours: 144

Month 1: Introduction to Data Analytics, Role of Data Analyst, Types of Data, Data Lifecycle, Statistics, Excel Basics, Data Cleaning, Formatting, Sorting, Filtering, Functions, Charts, Practical Assignment, Sales Data Analysis Project.

Month 2: Advanced Excel (Pivot Tables, Lookup Functions, INDEX-MATCH, IF Functions, Data Validation, Power Query, Dashboards) and SQL (Databases, MySQL, SELECT, WHERE, GROUP BY, HAVING, JOINS, Subqueries). Project: SQL Database Analysis.

Month 3: Python Installation, Variables, Loops, Functions, Lists, NumPy, Pandas, Reading CSV/Excel, Data Cleaning, Data Manipulation, Exploratory Data Analysis. Project: Employee Data Analysis.

Month 4: Power BI, Data Transformation, Data Modeling, DAX, Reports, Interactive Dashboards, Publishing, Charts, KPI Cards, Slicers, Data Storytelling. Project: Business Sales Dashboard.

Month 5: Descriptive Statistics, Probability, Correlation, Regression, Hypothesis Testing, Machine Learning Basics, Classification, Clustering, Scikit-learn, Model Evaluation. Project: Customer Segmentation.

Month 6: Capstone Project, Business Case Studies, Dashboard Presentation, Resume Building, LinkedIn Optimisation, Interview Preparation, Mock Interviews, Final Project Presentation.