Data Analytics Syllabus

Module 1: Introduction to Data Analytics

- Overview of Data Analytics
- Opportunities and Career Paths in Data Analytics
- Roles and Responsibilities of a Data Analyst
- Data Analytics Case Studies

Module 2: Data Visualization Using Power BI

- Fundamentals of Data Visualization
- Introduction to Power BI
- Data Visualization Using Power BI
- Advanced Data Visualization
- Slicers and Filters in Power BI
- Interactive Visualizations in Power BI
- Creating Paginated Reports
- Creating Dashboards in Power BI

Module 3: Data Cleaning & Transformation Using Excel / Power Query

- Data Cleaning Techniques
- Data Transformation Techniques
- Introduction to Power Query
- Data Types and Filters in Power Query
- Built-in Column and Row Transformations
- Creating Queries in Power Query
- Combining Two Data Sets

Module 4: Data Modelling & DAX

- Introduction to Data Modelling
- Data Modelling Techniques
- Creating Measures in DAX
- DAX Functions

Module 5: Publishing Your Dashboards

- Introduction to Power BI Service
- Collaboration Using Power BI

- Creating Dashboards Using Power BI Cloud / Service
- Publishing Your Dashboards

Module 6: Data Analysis Using Python Libraries

- Introduction to NumPy and Pandas
- Indexing and Slicing NumPy Arrays
- Indexing and Filtering Pandas DataFrames and Series
- Modifying Pandas DataFrames and Series

Module 7: Data Analytics Using Tableau

- Fundamentals of Tableau
- Essential Design Principles for Data Visualization with Tableau
- Creating Dashboards and Interactive Reports in Tableau