

MASTERING BUSINESS INTELLIGENCE

Master Excel, Power BI, and Tableau to analyze and visualize data and deliver professional reports.

Curriculum

- Excel for Data Analysis
- Introduction to PowerBI
- Data Preparation
- Data Visualization in PowerBI
- Introduction of Power BI Report Builder
- Overview of Power BI Service
- Introduction to Tableau
- Advanced Tableau Features
- Capstone Project

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Detailed course topics

Module 1: Excel for Data Analysis

- Data cleaning and preparation using advanced Excel functions.
- Working with PivotTables and PivotCharts for quick insights.
- Data transformation and integration using Power Query.
- Building interactive dashboards with slicers and dynamic charts.

Module 2: Power BI Desktop

- Connecting to and preparing data from various sources.
- Data modelling with relationships, measures, and calculated columns.
- Creating interactive dashboards with visuals like charts, maps, and slicers.
- Using DAX for advanced calculations and data analysis.

Module 3: Power BI Report Builder

- Creating paginated reports for detailed analysis.
- Connecting to datasets and managing queries in Report Builder.
- Exporting and printing reports for stakeholders.

Module 4: Power BI Service

- Publishing and sharing reports from Power BI Desktop.
- Managing datasets, workspaces, and dashboards.
- Configuring data refresh schedules and managing gateways.
- Implementing row-level security (RLS) for secure data access.

Module 5: Tableau Basics

- Connecting to data sources and performing data blending.
- Building visualizations like bar charts, maps, and scatter plots.
- Adding interactivity with filters, parameters, and sets.
- Designing dashboards and stories for presentations.

Module 6: Advanced Tableau Features

- Creating complex calculated fields and using LOD expressions.
- Publishing and sharing dashboards via Tableau Online.

Module 7: Capstone Project

- Cleaning and analyzing data in Excel.
- Building a dashboard in Power BI Desktop with paginated reports.
- Designing a Tableau dashboard for comparative insights.
- Publishing and presenting insights through Power BI Service and Tableau Online.

This outline ensures participants gain theoretical knowledge and practical skills in data analytics.

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