

ZYTRIX TRAINING

Build your skills for Brighter Future

POWER BI SYLLABUS

Module 1: Introduction to Power BI

Overview of Power BI and its capabilities

Understanding the Power BI ecosystem (Power BI Desktop, Power BI Service, Power BI Mobile)

Installing Power BI Desktop and setting up the development environment

Getting familiar with the Power BI user interface

Module 2: Data Sources and Data Preparation

Connecting to data sources (Excel, CSV, databases, web services, etc.) in Power BI Desktop

Data loading and data transformation using Power Query Editor

Data cleaning, shaping, and restructuring techniques

Introduction to M and DAX languages for data manipulation

Module 3: Data Modeling and Relationships

Understanding data modeling concepts in Power BI

Creating relationships between tables

Managing relationships (one-to-one, one-to-many, many-to-many)

Implementing calculated columns and measures

Module 4: Data Visualization

Introduction to data visualization principles

Creating basic visualizations (bar charts, line charts, pie charts, etc.)

Formatting and customizing visualizations

Working with slicers, filters, and drill-down functionality

Module 5: Advanced Data Visualization

Using advanced visualization types (treemaps, scatter plots, waterfall charts, etc.)

Creating custom visuals using Power BI marketplace

Implementing cross-highlighting and cross-filtering

Designing interactive dashboards and reports

Module 6: Power BI Service

Introduction to Power BI Service and Power BI Mobile

Publishing reports and dashboards to Power BI Service

Sharing and collaboration features in Power BI Service

Configuring security and access controls

Module 7: Data Analysis and Insights

Performing data analysis using Power BI

Creating and using calculated tables and calculated measures

Implementing time intelligence functions for date-based analysis

Detecting trends, outliers, and patterns in data

Module 8: Data Refresh and Scheduled Refresh

Configuring data refresh options in Power BI Service

Setting up scheduled refresh for datasets

Troubleshooting data refresh issues

Module 9: Power BI Administration and Governance

Administering Power BI tenant settings and admin portal

Implementing usage monitoring and auditing

Managing workspaces, apps, and content packs

Implementing data governance policies

Module 10: Power BI Integration with Other Tools

Integrating Power BI with Microsoft Excel

Using Power BI with Microsoft Office 365 and SharePoint

Embedding Power BI reports and dashboards in custom applications

Connecting Power BI to Azure services and other third-party tools

Module 11: Advanced Topics and Best Practices

Advanced data modeling techniques (star schema, snowflake schema)

Performance optimization tips for Power BI reports

Best practices for designing efficient and scalable Power BI solutions

Data storytelling and presentation techniques

Module 12: Project Work

Students work on real-world projects and case studies using Power BI, applying concepts learned throughout the course