



Power Bi Course Details

1. Introduction to Power BI

- **Overview of Power BI**
 - Definition and Importance of Power BI
 - Components of Power BI (Power BI Desktop, Power BI Service, Power BI Mobile)
- **Getting Started with Power BI**
 - Installing Power BI Desktop
 - Navigating the Power BI Interface

2. Data Sources and Data Connections

- **Connecting to Data Sources**
 - Importing Data from Various Sources (Excel, SQL Server, Web, etc.)
 - Understanding Data Connectivity Modes (Import, DirectQuery, Live Connection)
- **Data Transformation with Power Query**
 - Introduction to Power Query Editor
 - Basic Data Transformation (Filtering, Sorting, Grouping, Pivoting, and Unpivoting)
 - Advanced Data Transformation (Merging Queries, Appending Queries, Conditional Columns)

3. Data Modeling

- **Creating a Data Model**
 - Understanding Data Modeling Concepts
 - Creating Relationships between Tables
 - Managing and Editing Relationships
- **Enhancing the Data Model**
 - Creating Calculated Columns and Measures
 - Using DAX (Data Analysis Expressions) Basics
 - Implementing Time Intelligence Functions

4. Data Visualization

- **Introduction to Data Visualization**
 - Principles of Effective Data Visualization
 - Choosing the Right Visuals for Your Data
- **Creating Basic Visuals**
 - Bar and Column Charts

- Line and Area Charts
- Pie and Donut Charts
- Tables and Matrices
- **Advanced Visuals and Custom Visuals**
 - Scatter and Bubble Charts
 - Maps and Geospatial Visuals
 - TreeMaps, Waterfall, and Funnel Charts
 - Importing and Using Custom Visuals from the Power BI Marketplace

5. Interactive Dashboards and Reports

- **Designing Interactive Reports**
 - Adding and Customizing Visuals
 - Using Slicers and Filters
 - Creating Drill-Through Reports
- **Enhancing Report Interactivity**
 - Implementing Bookmarks and Selections
 - Using Drilldown and Drill-Up Features
 - Designing Responsive Layouts

6. Publishing and Sharing

- **Publishing Reports**
 - Publishing to Power BI Service
 - Managing and Refreshing Datasets
- **Sharing and Collaboration**
 - Sharing Reports and Dashboards
 - Collaborating in Workspaces
 - Embedding Reports in Websites or Applications

7. Power BI Service Features

- **Overview of Power BI Service**
 - Navigating Power BI Service Interface
 - Understanding Workspaces, Datasets, Reports, and Dashboards
- **Data Refresh and Gateway**
 - Configuring Data Refresh Schedules
 - Setting up and Using On-Premises Data Gateway
- **Power BI Mobile**
 - Overview of Power BI Mobile App
 - Viewing and Interacting with Reports on Mobile Devices

8. Advanced Analytics with Power BI

- **Introduction to Advanced Analytics**
 - Using Built-in Analytics Features
 - Implementing Trend Lines, Clustering, and Forecasting
- **Integration with Other Tools**

- Integrating Power BI with Excel
- Using Power BI with Azure Machine Learning
- Introduction to Power BI and R/Python Integration

9. Security and Administration

- **Managing Security**
 - Row-Level Security (RLS)
 - Managing Users and Permissions
- **Power BI Administration**
 - Understanding Power BI Admin Portal
 - Monitoring Usage and Performance
 - Managing Premium Capacity

10. Best Practices and Real-World Scenarios

- **Best Practices in Power BI**
 - Designing Efficient Data Models
 - Optimizing Performance
 - Creating User-Friendly Reports
- **Case Studies and Real-World Projects**
 - Implementing End-to-End Power BI Solutions
 - Industry-Specific Use Cases (Finance, Marketing, Operations, etc.)
 - Presenting and Sharing Final Projects