

Power BI Beginner to Advanced

Duration : 40 hours (5 days)

1. Introduction to Power BI

- Overview of Business Intelligence (BI)
- Introduction to Power BI and its components
- Installing and setting up Power BI Desktop

2. Getting Started with Power BI

- Understanding the Power BI interface
- Connecting to data sources (Excel etc.)
- Importing and transforming data using Power Query

3. Data Modeling

- Creating and managing data models
- Establishing relationships between tables
- Introduction to DAX (Data Analysis Expressions)

4. Data Visualization

- Creating basic visualizations (charts, tables, maps)
- Customizing visualizations (formatting, themes)
- Using slicers and filters for interactive reports

5. Advanced Data Modeling

- Advanced DAX functions and calculations
- Time intelligence functions
- Optimizing data models for performance

6. Advanced Visualizations

- Creating advanced visualizations (scatter plots, waterfall charts)
- Using custom visuals from the Power BI marketplace
- Designing interactive dashboards

7. Power BI Service

- Publishing reports to Power BI Service
- Sharing and collaborating on reports
- Setting up data refresh schedules

8. Power BI Mobile

- Overview of Power BI Mobile app
- Creating mobile-optimized reports
- Viewing and interacting with reports on mobile devices

9. Power BI and Excel Integration

- Using Power BI Publisher for Excel
- Analyzing Power BI data in Excel
- Exporting Power BI reports to Excel

10. Security and Administration

- Implementing row-level security (RLS)
- Managing user roles and permissions
- Administering Power BI workspaces

11. Case Studies and Projects

- Real-world Power BI projects (For example HR Analytics Dashboard etc.)
- Hands-on practice with sample datasets
- Presenting findings and insights

12. Best Practices and Future Trends

- Best practices for Power BI development
- Emerging trends in BI and data analytics
- Continuous learning and certification paths