Certificate course on Power BI Course 3 Months Duration

Syllabus

Module 1:

- Introduction to Power BI
- What is Power BI?
- Components: Power BI Desktop, Service, and Mobile
- Power BI vs Excel vs Tableau
- Installing Power BI Desktop
- Understanding Power BI Interface

Module 2:

- Connecting to Data
- Importing Data from:
- Excel, CSV, SQL Server, Web, SharePoint, APIs
- Understanding Data Sources
- Data Loading Options (DirectQuery vs Import)
- Data Transformation Overview

Module 3:

- Power Query & Data Cleaning
- Power Query Editor Interface
- Data Transformation Techniques:
- Remove duplicates, blanks
- Pivot/Unpivot
- Merge and Append Queries
- Custom columns
- Data profiling, error handling

Module 4:

- Data Modeling
- Relationships in Power BI
- Star vs Snowflake Schema
- Normalization & Denormalization
- Creating Calculated Columns, Measures
- Introduction to DAX (Data Analysis Expressions)

Module 5:

- DAX Essentials
- Syntax and Functions
- SUMX, CALCULATE, FILTER, RELATED, IF, SWITCH
- Time Intelligence Functions
- Aggregation and Ranking
- Variables in DAX

Module 6:

- Data Visualization
- Visual Types:Bar, Line, Pie, Cards, Matrix, Table, Map, Treemap, Gauge

- Custom Visuals from Marketplace
- Formatting and Interactions
- Tooltips and Drillthroughs
- Bookmarks and Buttons
- Creating Report Themes

Module 7:

- Dashboards & Reports
- Page navigation
- Slicers and Filters
- Publishing to Power BI Service
- Creating Dashboards in Power BI Service
- Pinning visuals and tiles

Module 8:

- Power BI Service (Cloud)
- Workspaces, Apps, Sharing Reports
- Dataset Refresh Scheduling
- Row-Level Security (RLS)
- Dataflows and Gateways
- Power BI Mobile Overview

Module 9:

- Advanced Topics (Optional)
- Performance Optimization
- Paginated Reports (Power BI Report Builder)
- AI Visuals (Decomposition Tree, Key Influencers)
- Integration with Python/R
- Embedding Power BI in Apps

Module 10:

Real-World Projects and Administration
Power BI Administration:
Usage monitoring
Gateway configuration
Governance and compliance
Integration with:SharePoint,Microsoft Teams,Power Apps and Power Automate

Assessment & Certification Preparation

- Weekly assignments and quizzes
- Real-world case study: Sales, HR, Marketing, or Finance Dashboard Creation
- Capstone projects with real datasets (Sales, HR, Finance, etc.)
- Power BI PL-300: Microsoft Power BI Data Analyst certification prep (optional)