

Power BI

Power BI Syllabus

Module : 1 : Introduction to Power BI and Data Analytics

1. What is data analytics and business analytics
2. Business Analyst v/s Data Analyst
3. What is PowerBI
4. Why do we need Power BI
5. Tableau V/s Power BI
6. How a business problem is resolved [methodology]+ work of Power BI in it.
7. Power BI Components
 - Power BI Desktop
 - Power BI Services
 - Power BI Mobile
8. Installation of Power BI

Module : 2 : Data Flow and ETL Processes in Power BI

1. Entire Power BI flow (Data collection → Power BI Desktop → Power BI Services)
 - What are Servers
 - How data is Stored
 - ETL process
 - OLAP/OLTP/Data Warehouses, Data Lakes, Data Marts etc.
 - Data Cleaning
 - Data Transformation.
 - Data Visualization.
 - Power Query
 - DAX
 - Measures Etc.

- Publishing of dashboard, Self Service BI, Refresh Reports, Sharing of reports.
2. Power BI user Interface.
 3. Data types available, their Identification, and Changing Data Types.

Module : 3 : Visualizations and Editing in Power BI

1. Editing working area
2. Creating and editing visuals.
3. Elements such as cards, slicers, KPI, gauge, etc.
4. Bookmarks, hyperlinks, and page navigation.
5. Format Painter.
6. Area chart [Lasso setting], Area bubble chart, Area filled chart.
7. Integration of AI to create charts.
8. Tables, matrix creations, and differences between them.
9. Conditional Formatting.

Module : 5 : Advanced Features and Data Modeling

1. Tooltips.
2. Filters.
3. Drill up, Drill down, Drill Through.
4. Data Modelling (Data Relationships).
 - Cardinality.
 - Relationships.
 - Cross Filter Direction.

Module : 6 : Introduction to DAX and Logic Building

1. Data Modelling Continuation.
2. Filters v/s Slicers [performance].
3. Introduction to DAX
 - Basic Dax Queries.
 - If, switch Statements
 - DAX and logic building practice.

Module : 7 : Measures, DAX Queries and Logic Building

1. Consolidating Data (Grouping, Bins)
2. Measures (Continuation of DAX)
 - Questions and logic.
 - Difference between measures and columns.
 - Types of measures.

Module : 8 : Filter Context in DAX

1. Filter Context.
2. Queries and Logic building in Filter Context (DAX)

Module : 9 : Parameterized Charts and Visuals

1. Parameterized Charts Continuation.
2. measure Parameterized Charts + DAX.
3. Tree Map.
4. Scatter Plot.

Module : 10 : Power Query and Data Transformation

1. Quick Measures.
2. Introduction to Power Query.
3. Problems and issues with data and continuation of Power Query
4. Data Transformation using Power Query Editor.

Module : 11 : Advanced Data Transformation Techniques

1. Data transformation Continuation.
2. M- language.
3. Merge Queries.
4. Append Queries.
5. Connect of data from Servers (SQL servers)
6. Query Folding.
7. Python Integration.

Module : 12 : Data Preparation and Security

1. Pivot and Unpivot tables.
2. Granularity and Group by.
3. Row Level Security in Power BI.
4. Power BI Services Introduction.

5. DAX and measures using AI.

Module : 13 : Power BI Services and Roles

1. Power BI Services.
 - Publishing of Services.
 - Assignment of roles.
 - WorkSpaces.
 - Self Service BI.
 - Managed Access.
2. Power BI pricing.

Module : 14 : Power BI Roles and Capabilities

1. Power BI roles.
2. Self-Service Capabilities.
3. Reports (In Power BI Services).
4. Dashboard (In Power BI Services).
5. Reports V/S Dashboards.

Module : 15 : Power BI Architecture and Gateways

1. Power BI Architecture.
2. Gateways.
3. Refresh Time.
4. Embedded links.

Module : 16 : Interview Preparation for Power BI

1. Power BI Interview Questions.

Module : 17 : Gen AI Enabled Power BI

1. Gen AI Enabled Power BI
 - AI charts.
 - Analysis Using AI to Drive Insights from Created Charts.
 - Formatting background using AI.
 - Formatting charts using AI.

We are providing Training in Below Courses

Project Training

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Internship

C/C++	Python / Django	Data Analysis
DSA	React Js / Angular Js	Power BI
DBMS	MERN / MEAN	AI / ML
Mongo DB	Full Stack Development	Data Science
Java/Ad. Java		Generative AI

- ***Certified Courses.***
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- ***Courses with Hands-On Projects.***