



POWER BI

Module	Topics
Module-1: Introduction to Power BI	<ul style="list-style-type: none"> - Introduction to Business Intelligence (BI) - Stages of business intelligence (BI) - Use cases of BI - Various BI tools - Overview of Data warehouse & concepts - Introduction to Power BI - Why Power BI - Power BI Components - Power BI pricing structure - Building blocks of Power BI - Architecture of Power BI - Power BI vs. Tableau vs. QlikView - Introduction of Power BI Desktop - Installation of Power BI Desktop - The key features of Power BI workflow - Process of creating reports in Power BI
Module-3: Data Transformation	<ul style="list-style-type: none"> - Shaping data using Power Query Editor - Formatting data - Transformation of data - Understanding of Data types - Data profiling for data quality check - Naming conventions & best practices to consider - Working with Parameters - Merge Query - Append Query - Group by of data (aggregation of data) - Applied steps (query settings) - Duplicate & Reference tables - Transpose of data - Fill - Pivot & Un-pivot of data - Custom columns - Conditional columns

Module-4: Data Modelling & DAX	<ul style="list-style-type: none"> - Introduction of relationships - Creating relationships - Cardinality - Cross filter direction - Use of inactive relationships - Introduction of DAX - Why DAX is used - DAX syntax - DAX functions - Context in DAX - Calculated columns using DAX - Measures using DAX - Calculated tables using DAX - Learning about table, information, logical, text, iterator, - Time intelligence functions (YTD, QTD, MTD) - Cumulative values, calculated tables, and ranking and rank over groups - Date and time functions - DAX advanced features
Module-5: Data Visualization	<ul style="list-style-type: none"> - Deep dive into Power BI data visualization - Understanding Power View and Power Map - Data visualization techniques - Page layout & Formatting - Power BI Desktop visualization - Formatting and customizing visuals - Visualization interaction - Custom visualization in Power BI - Top-down and bottom-up analytics - Geographical data visualization using Maps
Module-6: Power BI Service Cloud	<ul style="list-style-type: none"> - Introduction to Power BI Service - Introduction of workspaces - Dashboard - Creating & Configuring Dashboards - Reports vs Dashboards - Sharing reports & dashboards - Ad-hoc analytics building - Introduction of Paginated Reports - Introduction of Power BI Report Server

Module-7: Power BI Administration	<ul style="list-style-type: none"> - Getting to understand Power BI Desktop settings - Aggregating data from multiple data sources - Power BI Service settings - Power BI Admin Portal - Administration activities - Power BI usage analysis - Installation & Configuration of data gateways - Scheduling auto data refresh - Real time data analysis using Direct Connectivity - Direct Query vs. Import Mode
Module-8: Embedded Power BI with API & Mobile View	<ul style="list-style-type: none"> - Introduction to embedded Power BI - Create embedded code - Manage embedded code - Integration of Power BI in SharePoint - Introduction of Power BI API - Power BI Embedded playground - Introduction to Power BI Mobile - Creating mobile-based reports & dashboards - Optimizing report for Power BI mobile app - Features of Power BI mobile app - Introduction of integrating Power BI & Excel - Power BI Analyze in Excel