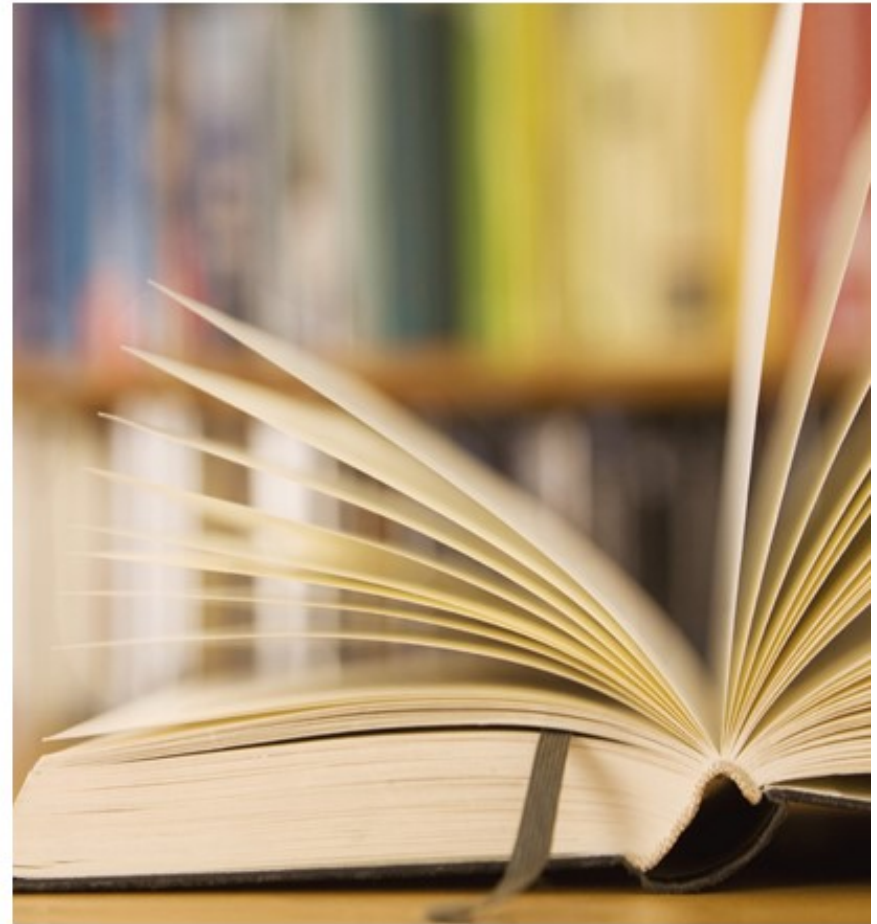**SKAAY Data Labs**
Training|Development|Consulting

POWER BI
(Course Curriculum)

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Syllabus & Course Outline

Course Name	Power BI
Duration	Weekend (10-12 weekends)/Weekdays (2-3 weeks)
Delivery Mode	Classroom/Online
Key Features	100+ Quizzes, Lab/Workshop Sessions, Demo Interview Sessions, Job Assistance Group
Training kit	Welcome kit, Course related software, Notes, Practice questions, & Others

Microsoft Power BI is a business intelligence platform that offer teams a comprehensive data analytics toolset. The software is designed to assist businesses in their efforts to systematically analyse data and share 360 degree insights. **As per Gartner Magic Quadrant for Analytics & Business Intelligence Platforms, Power BI is the Market Leader**

Training course is extensively designed with Basics to Advanced level Power BI concepts. During the training, we cover case studies, labs & workshop sessions.

Target Audience: Those with engineering background, MBA, MIS, Data analyst can learn Power BI to enhance their technical skill in the field of Business Intelligence.

Prerequisites: No prior exp require on any technology. Good if audience have basic knowledge of excel/SQL

Figure 1. Magic Quadrant for Analytics and Business Intelligence Platforms

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Get Started

- Why Power BI
- Overview/Introduction of Power BI
- Parts of Power BI
- Download Power BI Desktop
- Flow of work in Power BI
- Building blocks of Power BI
- Understanding Power BI Licensing
- Staying in Sync with monthly updates
- Power BI vs SSRS

After completing this module, folks will be able to understand
➢ History of Power BI, Comparison with BI tools, Building blocks & Licensing etc.

Query Editor & Data Transformation	Connect to Data (Talk about different Connectors)
	Parts of Query Editor
	New Query, Manage Columns, Reduce Rows, Sort, Transform
	Table, Any column, Text column & Date-Time column & Structured column:
	General, From Text, Date & Time:
	Layout, Data Preview, Go to column:
	Query Dependencies
Combine	Merge Queries (Will talk about different joins)
	Append Queries
	Manage parameter
Parameters	Create parameter
	Edit parameter
	Combine Files
Session Diagnostics	Introduction to Query diagnostics

After completing this module, folks will be able to understand
➤ Usage of different connectors, Data cleansing & manipulation tasks, Parameters, Query diagnostics & many more.

| ☑ SQL Server | ☑ Power BI & DAX | ☑ Azure with AI | ☑ MSBI Stack (SSIS, SSRS & SSAS) |
| ☑ Full Stack Python | ☑ O365 | ☑ Power Automate | ☑ Power Apps |

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Data Modelling & Manage Relationships	
	Cardinality
	Autodetect Relationship
	Edit/Delete Relationship
	Cross filter direction
Introduction to DAX (Data Analysis eXpression)	What is DAX & Usage of DAX
	DAX data types
	Dax operators
	Calculated Columns vs Measures
	Calculated Table (Date table)
	Variables
	Formatting DAX code
	Common DAX Function: (SUM, SUMX, COUNT, AVERAGE, MIN, MAX, IIF, SWITCH, AND, OR, NOT, ISBLANK, LEN, LOWER, MID, REPLACE, DATE, MONTH, YEAR, QUARTER, FORMAT, FILTER, CALCULATE, SUMX, COUNTX,TOPN, RANKX, SUMMARIZE, DATESYTD, DATESMTD, DATESQTD, ALL, FILTER, CALCULATE

After completing this module, folks will be able to understand
➢ Concept of data modelling, Types of relationship & Introduction to DAX.

Visualizations	
	Talk about best practices in Power BI
	Creating reports using different visualization
Show Panes	Filters & Types of Filter
	Bookmarks & their usage
	Selection
	Edit Interactions
	Sync slicers
Drill Actions	Switch to next level
	Expand next level
	Drill up
	Drill down
	Drill through
Data Groups	

After completing this module, folks will be able to understand
➤ Different types of visualization, drill features & others

☑	SQL Server	☑	Power BI & DAX	☑	Azure with AI	☑	MSBI Stack (SSIS, SSRS & SSAS)
☑	Full Stack Python	☑	O365	☑	Power Automate	☑	Power Apps

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Row Level Security (RLS) & Report Sharing	
	Introduction to RLS (P1)
	Manage Roles
	Validate Data against roles
	Report Publishing
Power BI Report Services	Data centre location
	Dataset Security (RLS – P2)
	Permissions
	Workspace (My workspace & Other workspace)
	App in Power BI Service
	Export Report to Pdf & PowerPoint
	Report Subscription
	Usage Metrics
	Save a copy, Download the .pbix file
	Bookmarks
	Analyze in Excel Updates

After completing this module, folks will be able to understand
➢ RLS, Publishing of reports, Apps & Others.

☑	SQL Server	☑	Power BI & DAX	☑	Azure with AI	☑	MSBI Stack (SSIS, SSRS & SSAS)
☑	Full Stack Python	☑	O365	☑	Power Automate	☑	Power Apps

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Data Gateway	
	Download & Install Data Gateway
	Introduction to Data Gateway
	Types of Gateway
	Refreshing Data & User Credentials
Power BI for Mobile	Download & Install app
	View BI Reports & Dashboards
	Groups in Power BI Mobile app
	Share from Mobile app

After completing this module, folks will be able to understand
➤ Usage of Gateway & Mobile app.

THANK YOU!!!

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