

Microsoft Power BI

Course Curriculum

Course Overview: *This course gives hands-on classroom/online training to enable the student handle the Power BI application effectively, using it to adequately, import, model, analyze and create visualizations that will aid data driven business decision making processes.*

WEEK	DAY	MODULE	OBJECTIVES	TOPICS	HOURS
Week 1	Day 1	1. Business Intelligence & Data Visualization	Student will understand what business intelligence is and its importance for data-driven decision making	1. What is Business Intelligence? 2. What is Data Visualization? 3. Importance of Data Visualization	2
		2. Power BI vs Tableau	Make student understand the Strengths of Power BI and Tableau and their importance to the big-data community	1. Strengths of Power BI 2. Strengths of Tableau 3. Other BI tools	
		3. What is Power BI?	Student will understand why Power BI is important to a Data analyst and its standout features	1. Power BI and its uses	
	Day 2	4. Components & Architecture of Power BI	To understand the make-up and different parts of the power BI tool	1. Features of Power BI 2. Structure of Power BI	1
		5. Building Blocks of Power BI	This will ensure understanding of the Power BI services, their connectivity and various functions in a data analysis project	1. Breaking Down Power BI 2. Setup and Installation	1
	Day 3	6. Getting Started with Power BI	This will acquaint student with the interface and navigation of Power BI application	1. Power BI interface 2. Ribbons 3. Views	2
		7. Import Data	Student will learn how to import data from several sources into Power BI	1. Import Data from excel files 2. Import Data from csv files 3. Import data from json files	

WEEK	DAY	MODULE	OBJECTIVES	TOPICS	HOURS
Week 2	Day 4	8. Power BI Charts	Creating and modelling chart to for effective visualization will be understood here.	1. Chart Location 2. Chart Usage 3. Chart filters	2
	Day 5	9. Power BI Charts (Cont'd)	Creating and customizing charts and using the power BI App source.	1. Chart editing 2. Custom charts	2
	Day 6	10. Data Modelling	Student will learn and understand how to clean, transform and modify data for effective visualization and analysis	1. Data Cleaning 2. Data Transformation 3. Data Modelling	2
Week 3	Day 7	11. DAX functions	Understanding and using DAX formulas for in-depth analysis	1. DAX formula syntax 2. Calculated columns	2
	Day 8	12. Power BI KPI	Understanding KPIs and how to adequately represent it on Power BI	1. What is KPI 2. Power BI KPI capabilities	2
	Day 9	13. Power BI Reports	Report creating process	1. Sheets creation 2. Storytelling with visualization	2
Week 4	Day 10	14. Power BI Dashboards	Students will learn how to create and publish a captivating and insightful dashboard	1. Creating a Power BI dashboard 2. Publishing Dashboard	2
	Day 11	15. Questioning Your Dataset	Student will learn how to leverage the Question and Answer Function of Power BI	1. Power BI Q n A usage	2
		16. Apps	Student will understand what a Power App is and how to create it.	1. What is a Power App 2. Creating Power App	
	Day 12	Revision	Case Study and Revision. Final QnA Session.	1. Case Study 2. Revision	2
TOTAL					24