

THE BHAWANIPUR EDUCATION SOCIETY COLLEGE

Power BI Essentials: From Data to Dashboard

Session	Topic	Subtopics	Activities	Duration
1	Introduction to Power BI	- What is Power BI- Power BI vs Excel- Components: Power BI Desktop, Service, Mobile- Data sources overview	- Install Power BI Desktop- Explore interface- Connect to Excel/CSV data	2 hrs
2	Data Loading & Transformation (Power Query)	- Data import from various sources- Data cleaning basics- Power Query Editor- Remove duplicates, filters, splits	- Hands-on cleaning tasks- Real-life data cleanup	2 hrs
3	Data Modeling & Relationships	- Understanding data model- Creating and managing relationships- Star vs Snowflake schema- Normalization concept	- Build model using 3 tables- Create calculated columns	2 hrs
4	DAX Basics (Data Analysis Expressions)	- Intro to DAX- Measures vs Columns- Basic functions: SUM, AVERAGE, COUNT- Filter functions: CALCULATE, FILTER	- Create KPIs using DAX- Hands-on practice with measures	2 hrs
5	Visualizations & Report Building	- Basic visuals: bar, line, pie, table- Slicers, filters, cards- Visual formatting- Drill-downs, interactions	- Create dashboard on sales data- Use slicers and filters	2 hrs
6	Publishing, Sharing & Best Practices	- Publish to Power BI Service- Workspaces & dashboards- Sharing reports- Refresh schedules- Best practices in design & performance	- Publish sample report- Set auto-refresh- Final Q&A & recap	2 hrs