

<b>Course Title</b>	Microsoft Power BI Bootcamp
<b>Target Audience</b>	Individuals seeking to enhance skills in managing and presenting data using the Power BI application
<b>Prerequisites (if any)</b>	<ul style="list-style-type: none"> <li>• Basic knowledge of Data</li> <li>• How to use spreadsheets</li> <li>• Basic knowledge of Databases</li> </ul>
<b>Language of Instruction</b>	English / Urdu

<b>Course Description</b>
<p>The Power BI Bootcamp is tailored for individuals with pivotal roles in harnessing existing data resources to provide actionable insights.</p> <p>After successfully finishing this program, participants will have the capacity to work with essential stakeholders from various organisational departments to pinpoint business needs, refine and manipulate data, construct data models using Power BI, and empower report users to make informed decisions with user-friendly data visualisations and self-service analytics.</p>

<b>Course Learning Outcomes</b>	
	By the end of this course, the students should be able to:
LO1:	Understand business requirements and identify challenges. Create a strategy for final deliverables promptly.
LO2:	Source, transform and load data in Power BI proficiently.
LO3:	Apply Power Query expertise to structure data effectively.

LO4:	Use DAX functions to create more intricate measures.
LO5:	Select the most suitable visualisations for presenting and analysing data.
LO6:	Successfully upload, share, and secure Power BI online reports with various teams within an organisation.

<b>Assessments/Graded Components</b>			
In-class Assignments and class participation			
<b>Course Summary</b>			
<b>Lecture /Day</b>	<b>Module Name</b>	<b>Key Concepts/Topics Covered</b>	<b>Assessments</b>
1	Introduction to PowerBI	<ul style="list-style-type: none"> <li>• Business Analyst vs. Data Analyst</li> <li>• Understanding Data Relational Mapping</li> <li>• Revising some key concepts in Excel</li> <li>• Overview of Tables, Schema &amp; SQL</li> <li>• Getting Started with PowerBI</li> <li>• Power BI Desktop application walkthrough</li> <li>• Data Discovery: Source data from popular data sources</li> <li>• Power BI on-line service use-cases</li> <li>• Connecting Data sources to power the PowerBI dashboard</li> <li>• Designing our first Dashboard</li> </ul>	Lab/Quiz
2	Modelling data using the Power Query and DAX	<ul style="list-style-type: none"> <li>• Power Query use cases.</li> <li>• Model data using Power Query</li> <li>• Source and Transform data using Power Query</li> <li>• Combine, append, and merge queries in Power Query</li> <li>• Writing our first DAX</li> </ul>	Lab/Quiz

		<ul style="list-style-type: none"> <li>• Transforming the data in Power Query</li> <li>• Use DAX functions to create more complex measures</li> </ul>	
3	Analysing and Visualising data	<ul style="list-style-type: none"> <li>• Power Visuals and Custom Visuals</li> <li>• Perform analytics in Power BI</li> <li>• Dashboard</li> </ul>	Lab/Quiz
4	Power BI Online Service	<ul style="list-style-type: none"> <li>• Power BI Service Administration</li> <li>• Data refresh using gateways or cloud data source</li> <li>• Publish Power BI reports to websites</li> <li>• Power BI on-line service Workspaces and Security</li> <li>• Publish reports to online Power BI Workspace</li> <li>• Power BI Apps</li> </ul>	Lab/Quiz