

PROGRAM	Master of Business Administration–Business Analytics
SEMESTER	IV
COURSE TITLE	Power BI
COURSE CODE	04MB0455
COURSE CREDITS	2
COURSE DURATION	28

COURSE OUTCOMES:

- Understand BI process and application of MS-Power BI in business analytics
- Apply software knowledge to cleanse and transform data and build relational databases
- Analyze data through a variety of basic and advanced visualization tools available in Power BI

COURSE CONTENTS:

Unit No	Unit / Sub Unit	Sessions
I	<p>Introduction to Business Intelligence and Power BI Understanding the business intelligence (BI) process, BI and Power BI, Power BI parts and pieces, The Power BI architecture – Power BI Desktop, Power BI Service, Power BI Report Server, Power BI Mobile App, installation and overview of the interface</p> <p>Interacting with Power BI Desktop Opening a Power BI report/ preparing an Environment, working with single and multiple report items, altering a report (slicer, filter), navigating through Power BI reports</p>	8
II	<p>Building Data Models: Gathering data – Get data, Power BI connection types, Transforming data, The Power BI Query Editor, Shaping and Cleansing Data, Loading Transformed Data, Combining Datasets, creating intermediate tables, building relationships, creating a tabular model, formatting-hierarchies, groups and bins</p> <p>Creating Power BI Visuals-I: Basic visuals, Column chart, slicer, Tables and Matrix visualization, Cards and Multi-row cards, Pie, Donut, Treemap Basic formatting of visuals</p>	10
III	<p>Creating Power BI Visuals-II: Gauge chart (highlighting performance wrt set target) Exploring Interactivity with different types of slicer (horizontal-list, dropdown, range), Scatter plot (play-axis: chart in motion), Drill through feature, Geographic visualizations-bing map, filled map, shape map, Other visual elements (text boxes, images and shapes)</p> <p>Visual Formatting: page-specific and chart specific, advanced formatting (conditional formatting, data bars), visualization analytics tab, advanced</p>	10

	interactivity and custom visualization-changing interactivity from highlights to filters in report settings, Synchronizing slicers, Bookmarks, Buttons Measures and Calculated Columns: Calculated columns, Measures	
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EVALUATION:

The students will be evaluated on a continuous basis and broadly follow the scheme given below:

	Component	Weightage
A	Continuous Evaluation Component (Assignments / Presentations/ Quizzes / Class Participation/ etc.)	20% (C.E.C.)
B	Internal Assessment (MCQ)	30% (I.A.)
C	End-Semester Practical Examination	50% (External Assessment)

SUGGESTED READINGS:
Text Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition and Year
T-01	Brian Larson	Data Analysis with Microsoft Power BI	McGraw-Hill Publications	1 st Edition, 2020
T-02	Devin Knight, Brian Knight, Mitchell Pearson, Manuel Quintana and Brett Powell	Microsoft Power BI Complete Reference	Packt Publishing	1 st Edition, 2018

Reference Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition and Year
R-01	Greg Deckler	Learn Power BI: A beginner's guide to developing interactive business intelligence solutions using Microsoft Power BI	Packt Publishing	1 st Edition, 2019.
R-02	Mitchell Pearson	Microsoft Power BI Quick Start Guide: Build dashboards and visualizations to make your data come to life	Packt Publishing	1 st nd Edition, 2018.