**SVKM’s**

**Narsee Monjee College of Commerce & Economics**

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| **Program: Bachelor of Commerce (Economics and Analytics)** | | | | | | **Semester: II** | |
| **Course: Power BI**  **Academic Year: 2023-2024** | | | | |  | **Code:** | |
| **Teaching Scheme** | | | | **Evaluation Scheme** | | | |
| **Lectures** | **Practicals** | **Tutorials** | **Credits** | **Internal Continuous Assessment (ICA)**  **(weightage)** | | | **Term End Examinations (TEE)**  **(weightage)** |
| **30** | **Nil** | **Nil** | **02** |  | | |  |
| **Learning objectives:**   1. Understand the fundamental concepts and components of Power BI, including data sources, data modelling, and visualizations. 2. Develop proficiency in creating and managing data connections, transforming and cleaning data, and building data models in Power BI. 3. Learn advanced techniques for creating visually appealing and interactive reports and dashboards using Power BI | | | | | | | |
| **Learning Outcomes:**   1. Ability to confidently navigate and utilize the Power BI interface to perform tasks such as connecting to data sources, transforming data, and creating visualizations. 2. Proficiency in building robust data models in Power BI, including defining relationships, creating calculated columns and measures, and implementing data hierarchies. 3. Competence in designing and creating professional-quality reports and dashboards in Power BI, incorporating advanced features such as slicers, drill-through actions, and custom visuals to enhance data analysis and insights | | | | | | | |
| **Detailed Syllabus: ( per session plan )**  **Session Outline For Power BI**  **Each lecture session would be of one hour duration (30 sessions)** | | | | | | | |

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| --- | --- | --- | --- |
| **Module** | **Module Content** | **Module Wise**  **Pedagogy Used** | **Module**  **Wise**  **Duration** |
| I | Introducing Power BI Getting started with Power BI, Uploading data to Power BI,  Introducing natural-language queries  Introducing Quick Insights  Introduction to reports Introducing Visual Interactions, Decorating the report, Saving the report , Pinning a report, Filtering a report | Lectures and Hands on | 10 Lectures |
| II | Sharing the dashboard, Inviting a user to see a dashboard , Inviting users outside your organization, Creating a group workspace in Power BI, Turning on sharing with Microsoft OneDrive for Business , Viewing reports and dashboards on mobile devices | Lectures and Hands on | 10 Lectures |
| III | Using Power BI Desktop , Contents Connecting to a database , Loading from multiple sources , Using Query Editor, Hiding or removing tables , Handling seasonality and sorting months | Lectures and Hands on | 10 Lectures |

Reference Book

Introducing Microsoft Power BI Alberto Ferrari and Marco Russo

PUBLISHED BY Microsoft Press A division of Microsoft Corporation One Microsoft Way Redmond, Washington 98052-6399

**EVALUATION PATTERN**

The performance of the learner will be evaluated for 50 marks in two components. The first component will be a Continuous Assessment with a weightage of 40% of total marks per course. The second component will be a Semester end Examination with a weightage of 60% of the total marks per course. The allocation of marks for the Continuous Assessment and Semester end Examinations is as shown below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Total Marks** | **External Component** | **Internal Component[ICA]** | **ICA Component** | |
| **Internal test** | **Assignment** |
| 50 | 30 | 20 | 10 | 10 |
| 1]For 100 Marks-ICA Test Component-3 test of 10 marks each, Best 2 to be considered.  2] Duration; 30 marks- 2 hours , 10 marks-20 Minutes 3] ICA Test-Offline | | | | |
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**1. Internal exam:**

1. **Class Test :10 Marks Paper Pattern (Pen Paper based): 20 minutes**

|  |  |  |
| --- | --- | --- |
| Que 1 | Fill in the Blanks |  |
|  |  | (04) |
| Que 2 | Descriptive Question | (03) |
| Que 3 | Descriptive Question | (03) |

1. **Marks Assignments / Case study / Mini Project**

**2. End term exam paper pattern:**

**30 Marks Duration: 2 hours**

1. Note: Examination shall be conducted in machine test form in Batches (Max Batch-size 30) in computer lab.
2. One External examiner is required along with internal examiner for conduct of examination.
3. Question paper should have maximum number of distinct sets, kept faced down on table, from which student will pick up one question paper.
4. Duration of the examination is 2 Hours
5. Marks distribution as given below

|  |  |  |
| --- | --- | --- |
| Que 1 | Practical Question 1 | (15) |
| Que 2 | Practical Question 2 | (15) |

Evaluation shall be done by examiners on machine in computer lab.

Answer sheet/Print out of Code is required