Power BI - Data Visualization

(465-207 PUBLIC MANAGEMENT INFORMATION SYSTEMS)

(Section 01,02)

<mark>Part 1</mark>

Data Visualization ?

- Overview of Data Visualization
- Data Visualization tools

Introduction to Power BI

Getting Started with Power BI

- Overview of Power BI and its components
- Installing Power BI Desktop
- Understanding the Power BI ecosystem (Power BI Service, Power BI Mobile)

Data Sources and Transformation

- Connecting to various data sources (Excel, SQL, web, etc.)
- Introduction to Power Query for data transformation
- Basic data cleaning and shaping techniques

Data Modeling

- Understanding data relationships (one-to-many, many-to-many)
- Creating and managing data models
- Introduction to DAX (Data Analysis Expressions) basics

Part 2

Visualization and Reporting

Creating Visualizations

- Overview of available visualizations in Power BI

- Creating basic charts (bar, line, pie)

- Customizing visuals and formatting options

Building Reports and Dashboards

- Arranging visuals on a report page

- Utilizing slicers and filters for interactivity

- Introduction to creating dashboards in Power BI Service

Sharing and Collaboration

- Publishing reports to Power BI Service

- Understanding sharing options and permissions

- Best practices for report design and storytelling with data