

Visualization and Reporting Data Tools

Drawing insights from data for Business Intelligence

PROGRAMME
Master 1

SEMESTER
Semester 2

CREDITS
2 ECTS

CONTACT HOURS
12h Lectures

Course Description

The PowerBI Essentials course is designed to equip participants with the skills and knowledge necessary to effectively utilize PowerBI for data visualization and analysis. PowerBI is a powerful business intelligence tool that allows users to transform raw data into meaningful insights, enabling informed decision-making and data-driven strategies.

Throughout the course, participants will learn how to leverage PowerBI's features and functionalities to create visually compelling reports and interactive dashboards. They will gain proficiency in data modeling, data transformation, and data visualization techniques, enabling them to unlock the full potential of their data.

This course is shared with Master 2 Eachat

Learning Outcomes

- Locate, aggregate, integrate, and cleanse data from diverse sources using Power BI.
- Construct rigorous business intelligence reports and dashboards from raw data.
- Select and employ appropriate charts and visualizations to facilitate accurate data interpretation.
- Develop a comprehensive grasp of the principles of data modeling using DAX.
- Enhance efficiency by automating manual reporting processes through Power BI.

Indicative Content

- 1. Data Integration:** Locating, aggregating, and cleansing data from diverse sources.
- 2. Data Modeling:** Principles of data modeling and using DAX.
- 3. Data Visualization:** Selecting appropriate charts for data interpretation.
- 4. Dashboard Creation:** Constructing interactive business intelligence reports.
- 5. Automation:** Automating manual reporting processes for enhanced efficiency.

Teaching & Learning Approach

This course aims to equip students with the practical skills to undertake real-world business intelligence reporting. Instruction bridges the theoretical understanding of data analysis principles with hands-on technical application using Power BI.

Assessment

Individual / Team's Report