Business Intelligence

MIST 420

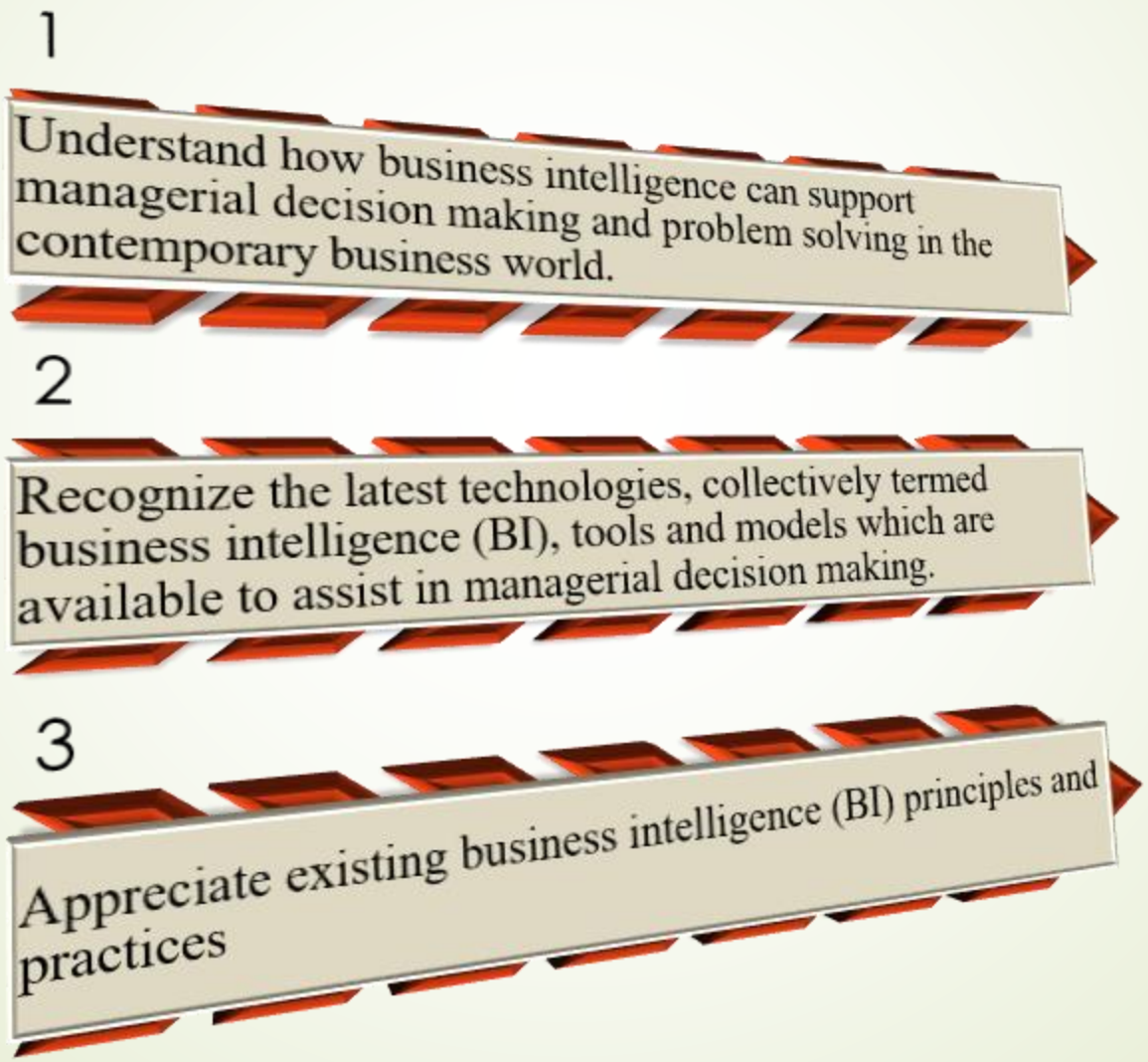
Course Description

- The course provides students with an understanding of the principles of decision making in organizations, an appreciation of the concepts of business intelligence systems (BI) across various disciplinary areas, and the acquisition of basic skills in the construction of BI systems. Students will gain hands-on experience with major BI applications.

Course Objectives

- The course provides students with an understanding of the principles of decision making in organizations, an appreciation of the concepts of business intelligence systems (BI) across various disciplinary areas, and the acquisition of basic skills in the construction of BI systems. Students will gain hands-on experience with major BI applications.

Course Learning Outcomes



Course Learning Outcomes

1. Understand how business intelligence can support managerial decision making and problem solving in the contemporary business world.

2. Recognize the latest technologies, collectively termed business intelligence (BI), tools and models which are available to assist in managerial decision making.

Course Path

Chapter 1
Data Analytics Overview

- What is Data Analytics
- Why Study Data Analytics
- Business and Data Analytics
- Applications of Analytics
- Analytics Methodology
- Global Bike Company

Chapter 2
Data Acquisition

- Structured and Unstructured Data
- Data Sources
- Data Gathering
- ERP System
- Informational system

Chapter 3
Dimensional Data Modeling

- Database Structure
- Data Warehousing
- Data Warehouse Modeling
- Star Schema
- Other Data Structures

Course Path

Chapter 4
Data Extraction, Transformation, and Loading

- ETL process.
- Data Harmonization
- Transformation rules
- ETL process chains

Chapter 5
Slicing and Dicing

- Slicing and Dicing Example
- Pivot Table
- Data Manipulation
- OLAP Tools to Analyze Multidimensional Data

Chapter 6
Data Visualization

- Charting Overview
- Types of Variables
- Types of Charts
- Which Chart Is Most Appropriate for My Visualization?
- Charting Considerations
- Other Visualization Techniques

Course Path

Chapter 7
Reports and Dashboards

- Reports
- Attributes of Well-designed Reports
- Authoring Reports
- Dashboards
- Types of Dashboards
- Dashboarding Process

Chapter 8
Datamining

- What is Data Mining?
- Big Data features
- Drives big data
- Data Mining Overview
- Data Mining Process
- In-memory databases

Review Class

- Solve previous exam

Course Path

Chapter 7
Reports and Dashboards

- Reports
- Attributes of Well-designed Reports
- Authoring Reports
- Dashboards
- Types of Dashboards
- Dashboarding Process

Chapter 8
Datamining

- What is Data Mining?
- Big Data features
- Drives big data
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Courses duration

Chapter NO.	Duration
Chapter 1	1h:30m
Chapter 2	2h
Chapter 3	1h:30m
Chapter 4	1h:30m
Chapter 5	1h:30m
Chapter 6	1h:45m
Chapter 7	1h:30m
Chapter 8	1h:30m
Review Class	1h:30m


Thank you