

Course Descriptor MIFS 407 - Decision Support Systems

Proposed Academic Year	2020-2021	Last Reviewed Academic Year	2020-2021
Course Code	MIFS407	Course Title	Decision Support Systems
Credit hours	03	Level of study	Undergraduate
College / Centre	CoBA	Department	MIS
Co-requisites		Pre-requisites	MIFS101

1. COURSE OUTLINE

The course intends to provide students with necessary knowledge to understand how decision support systems (DSS) are designed, and the rationale behind them. The course introduces the concept of the DSS and its components, then swiftly build on that to introduce the business intelligence and the current replacement to the DSS. The concepts of Data mining and data warehousing will also be thoroughly discussed.

2. AIMS

The decision support systems will furnish students with the basic principles in making decisions to serve an organizational task. Making decision in light of the current technological era needs high awareness of the current challenges and available tools to aid the decision making process; the embedding of the business intelligence into the curriculum and how the students can effectively use it is a prime aim of the course.

3. LEARNING OUTCOMES, TEACHING, LEARNING and ASSESSMENT METHODS

Learning Outcomes (Definitive)	Teaching and Learning methods (Indicative)	Assessment (Indicative)
Upon successful completion of this course, students will be able to:		
1. Demonstrate an appropriate understanding about the concept of Decision Support Systems (DSS) and how it applies to information systems domain.	<ul style="list-style-type: none"> • Lectures • Seminars • Group Work • Computer Laboratory Work 	Exams, Quizzes, Class Presentation, Assignment, Case study Report. Class work Computer based class work
2. Apply known concepts, theories, and methods of enquiry in the decision making field to synthesize, analyze, and interpret information and assess possible DSS solution.	<ul style="list-style-type: none"> • Lectures • Seminars • Group Work Computer Laboratory Work	Exams, Quizzes, Class Presentation, Assignment, Case study Report. Class work Computer based class work



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3. Investigate and analyze business processes or needs to design business intelligence requirements specifications.	<ul style="list-style-type: none"> Lectures Seminars Group Work Computer Laboratory Work	Exams, Quizzes, Class Presentation, Assignment, Case study Report. Class work Computer based class work
4. Systematically develop solutions to develop a DSS for an organization.	<ul style="list-style-type: none"> Lectures Seminars Group Work Computer Laboratory Work	Exams, Quizzes, Class Presentation, Assignment, Case study Report. Class work Computer based class work

4. ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Final	30
MID	30
Assignment	30
Participation	10
TOTAL	100%

5. ACHIEVING A PASS

Students will achieve **03** credit hours for this course by passing **ALL** of the course assessments [*alternatively, list the compulsory pass assessments**] and achieving a **minimum overall score of 50%**

NB *Ensure that ALL learning outcomes are taken into account

6. COURSE CONTENT (Indicative)

An Overview of Business Intelligence, Analytics, and Decision Support
Foundations and Technologies for Decision Making
Data Warehousing
Knowledge Management and Collaborative Systems
Business Reporting, Visual Analytics, and Business Performance Management
Knowledge Management and Collaborative Systems
Automated Decision Systems and Expert Systems
Big Data Analytics
An Overview of Business Intelligence, Analytics, and Decision Support
Foundations and Technologies for Decision Making
Data Warehousing

