

**Faculty of Computers & Information Technology**

**Decision Support Systems**

**Information :**

**Course Code :** ISY 433

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Department of Information Systems

**Instructor Information :**

Title	Name	Office hours
Professor	Ayman El Sayed Khedr	2
Associate Professor	AMIRA MOHAMMED IBRAHIM IDREES	
Assistant Lecturer	Mohamed Attia Mohamed	1
Teaching Assistant	Maha Farghaly Ali Ahmed	1

**Area Of Study :**

This course covers the following topics: Introduction to decision support systems; DSS components; Decision making and DSS; DSS software and hardware; developing DSS; DSS models; types of DSS; group DSS; executive information systems; data mining; artificial intelligence and expert systems.

**Course Goals:**

The course is devoted to introduce decision support systems; show their relationship to other computer-based information systems, demonstrate DSS development approaches, and show students how to utilize DSS capacities to support different types of decisions

**Description :**

Problem solving, decision-making process, model building, types of computer based information systems Approaches and techniques to construct and implement an effective computer-based Decision Support Systems (DSS). Alternative software development tools or generators of a DSS. The role of computational tools (simulation, optimization, statistical and other quantitative models) and computer information systems (MIS, AI and ES) to support and enhance the capability of the DSS. Discussion and analysis of real life case studies of integrated DSS is stressed throughout the course.

**Course outcomes :**

**a.Knowledge and Understanding: :**

1 -	Be able to understand the importance of decisions in the work and the life
2 -	Be able to use DSS Software Tools
3 -	Understand how to Evaluating the Success/Failure of Decision Support Systems

**b.Intellectual Skills: :**

1 -	Discuss the advangates/disadvantages of different Types of decision support systems
2 -	Analyze practical cases from the life for different problems (technical , management)

3 -	Design models ,solutions and alternative choices reports decision makers
<b>c. Professional and Practical Skills: :</b>	
1 -	DSS software tools.
2 -	Database language
3 -	Statistical software tools
<b>d. General and Transferable Skills: :</b>	
1 -	Work in a group in order to analyze ,design , create a solutions for a technical problems in one report
2 -	Work with other groups in order to make different decisions and GDSS

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Decision Making and Computer Support : An overview	3	2	2
Management Support Systems	3	2	2
Decision Making Systems, Modeling and Support	6	4	4
Decision Support Systems: An overview	6	4	4
Data Warehousing, Access, Analysis, etc	6	4	4
Modeling and Analysis	6	4	4
Decision Support Systems Development	3	2	2
Collaborative Computing Technologies	3	2	2

**Teaching And Learning Methodologies :**

• Lectures
• Exercises
• Lab Work
• Cases

**Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
Assignments	15.00	3	
Class Discussion and Presentation	15.00	3	
Final-term Examination	40.00	15	
Midterm 1	15.00	6	
Midterm 2	15.00	12	

