

Kingdom of Saudi Arabia
The National Commission for Academic Accreditation & Assessment

450CIS-3
Decision Support Systems

Course Specification
First Semester 2016-2017

Course Specification

Institution : Najran University	Date of Report : 05-May-2017
College/Department : College of Computer Science and Information Systems, Department of Information Systems	

A. Course Identification and General Information

1. Course title and code : Decision Support Systems, 450CIS-3		
2. Credit Hours : 3		
3. Programs : Bachelor of Information Systems		
4. Name of the faculty member responsible for the course: Mr. Yahya Ali Abdelrahman		
5. Level of the Course offered : Level - 9		
6. Pre-requisites for this course : N/A		
7. Co-requisites for this course : N/A		
8. Location : Male Campus		
9. Mode of Instruction :		
a. Traditional classroom	<input checked="" type="checkbox"/> What percentage?	100
b. Blended (traditional and online)	<input type="checkbox"/> What percentage?	
c. e-Learning	<input type="checkbox"/> What percentage?	
d. Correspondence	<input type="checkbox"/> What percentage?	
e. Other	<input type="checkbox"/> What percentage?	
Comments:		

B. Objectives

1. Review and clarify the fundamental terms, concepts and theories associated with Decision Support Systems, computerized decision aids, expert systems, group support systems and executive information systems.
2. Examine examples and case studies documenting computer support for organizational decision making, and various planning, analysis and control tasks.
3. Discuss and develop skills in the analysis, design and implementation of computerized Decision Support Systems.
4. Examine user interface design issues and evaluate the user interfaces and capabilities of Decision Support Systems.
5. Improve hands-on skills using HTML, Microsoft Access and Excel, and JavaScript for building state-of-the-art Decision Support Systems, especially Web-Based systems that use advanced computing and networking technologies.
6. Understand that most Decision Support Systems are designed to support rather than replace decision makers and the consequences of this perspective for designing DSS.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
1. Concept Managerial Decision Support System	1	1
2. Concept Managerial Decision Support System	1	1
3. Making Decision in the Decision Support System Environment	1	2
4. Introduction to Decision Support System	1	2
5. DSS Compounds	1	2
6. DSS Compounds part2	1	2
7. Developing Decision Support System	1	2
8. Modeling and analysis	1	4
9. Expert Systems and Artificial Intelligence	1	1
10. Data warehousing	1	2
11. Data Mining	1	2
12. Designing and Building Decision Support Systems Designing and Building Decision Support Systems	1	2

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other	Total
Contact Hours	26	13	13			52

Credits	2					3
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3. Additional private study/learning hours expected for students per week.

5

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Method
1.0	Knowledge		
1.1		Lectures,	First Midterm Exam, Quiz 1, Final Examination,
2.0	Cognitive		
2.1		Lectures, Small Group Work, Small Group Discussion,	First Midterm Exam, Second Midterm Exam, Tasks Assignment (Participation,, Quiz 1, Quiz 2, Final Examination,
2.2		Lectures, Debate, Small Group Work, Small Group Discussion, Research Activities,	First Midterm Exam, Second Midterm Exam, Tasks Assignment (Participation,, Quiz 1, Quiz 2, Final Examination,
2.3		Lectures, Debate, Small Group Work, Small Group Discussion, Lab Demonstrations, Projects,	Second Midterm Exam, Tasks Assignment (Participation,, Quiz 2, Lab Class Performance, Reports (Report 1, Report 2, Fin, Final Lab Exam, Final Examination,
3.0	Interpersonal		
3.1		Lectures, Debate, Small Group Work, Small Group Discussion, Lab Demonstrations, Case Studies,	Second Midterm Exam, Tasks Assignment (Participation,, Quiz 2, Lab Class Performance, Reports (Report 1, Report 2, Fin, Final Lab Exam, Final Examination,
4.0	Communication		
4.1		Lectures, Small Group Work, Lab Demonstrations, Case Studies,	Tasks Assignment (Participation,, Quiz 2, Lab Class Performance, Reports (Report 1, Report 2, Fin, Final Lab Exam, Final Examination,
5.0	Psychomotor		

5.1		Lectures,	First Midterm Exam, Second Midterm Exam, Tasks Assignment (Participation,, Quiz 1, Quiz 2, Final Examination,
5.2		Lectures,	First Midterm Exam, Second Midterm Exam, Tasks Assignment (Participation,, Final Examination,

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task	Week Due	Proportion of Total Assessment
1.	First Midterm Exam	5	15 %
2.	Second Midterm Exam	8	15 %
3.	Tasks Assignment (Participation,	2..1	3 %
4.	Quiz 1	3	4 %
5.	Quiz 2	7	4 %
6.	Lab Class Performance	2...	2 %
7.	Reports (Report 1, Report 2, Fin	2..1	5 %
8.	Final Lab Exam	13	12 %
9.	Final Examination	14	40 %

D. Student Academic Counseling and Support

1.

E. Learning Resources

- List Required Textbooks
 - Decision Support Systems and Intelligent System, Efraim Turban , Ramesh Sharda, Dursun Delen, 9th ed. Prentice-Hall.
 - Decision Support Systems and Intelligent System, Efraim Turban , Ramesh Sharda, Dursun Delen, 7th ed. Prentice-Hall.
- List Essential References Materials (Journals, Reports, etc.)
 - Hand Book On Decision Support Systems, F. Burstein, Springer, 2008
 - Making Hard Decisions Second Edition, Robert Clemen, Duxbury, 1996
- List Recommended Textbooks and Reference Material (Journals, Reports, etc)
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4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.) -
5. Other learning material such as computer-based programs/CD, professional standards or regulations and software. -

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) -
2. Computing resources (AV, data show, Smart Board, software, etc.) -
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) -

G. Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching		
Methods	Ways	Plan of Action
2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor		
3. Processes for Improvement of Teaching		
4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)		
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.		

Teaching Staff : Mr. Yahya Ali Abdelrahman

Signature : _____

Date of Report Completed : 26-Jan-2017

Received by : _____

Dean/Department Head

Signature : _____

Date : _____

