COURSE FILE SUMMARY

COURSE INFORMATION			
College / Institute / Center:	Management & Technology	**Department:**	BIS Dept.
Program Title:	Bachelor of Business Administration	**Program Code:**	AS, ES
Course Title:	**Decision Support Systems**	**Course Code:**	**S 415**

# Hours:	------- 2 hr -------- Lecture	----- 2 hr ------ Lab / Tutorial	-	------ 3 hr -------- Credit

Pre Requisites: S325 Project Information System (Advanced Database)

COURSE AIM

Understanding and utilizing the concepts of Decision Support Systems (DSS) to support managerial decision-making. It covers an integrated interdisciplinary collection of subjects: DSS components, DSS technology levels, managerial cognitive styles, DSS development. And the use of modeling languages. Applications of decision support systems, executive information systems and expert systems in a business environment are studied. Relationships between decision support systems, Knowledge-base systems, data /user/ machine interface system management and model management are explored.

COURSE OBJECTIVES

- To acquaint the student with the conceptual foundations of decision support systems;
- To train the student on how to identify the informational needs of an organization and propose appropriate managerial models to help analyzing different business scenarios, develop feasible solutions, interpret results, and suggest possible decisions;
- To train the student on how to use computerized analysis aids to enhance the management decision making processes for major functional areas in an organization;
- To emphasize organization environment, technology, decision models, and performance evaluation as the major determinants of decision support systems success;
- To introduce the student brief to executive knowledge acquisition and validation, knowledge representation, inference techniques, and Neural Network Systems(NNS);
- To highlight the use of major methodologies of developing decision support systems to suit the organizational needs and capabilities.

STAFF REQUIREMENTS

	Qualifications	Special Skills	Number
Lectures	Ph.D.		1
Tutorials			
Laboratories / Workshops	Bsc.CS or Ms.C.		1

LECTURE SCHEDULE

#	Lecture Week	Hrs	Description
1	1st.	2	1. Management Support Systems overview
2	2nd.	2	2. Decision Making Systems
3	3rd.	2	3. Decision Support Systems
4	4th.	2	4. Modeling and Analysis
5	5th.	2	5. Modeling and Analysis
6	6th.	2	6. Group DSS (GDSS)
7	7th	2	7. Midterm Exam
8	8th.	2	8. Business Intelligence
9	9th.	2	9. Data Warehousing
10	10th.	2	10. Knowledge Management
11	11th.	2	11. Knowledge Management Cont.
12	12th.	2	12. Knowledge representation
13	13th.	2	13. Artificial Intelligence and Expert Systems
14	14th.	2	14. Neural Networks (ANN)
15	15th.	2	15. Case Studies
16	16th.	2	16. Final Exam

TEXT BOOKS

Code*	Description
TB	**Decision Support Systems and Intelligent Systems** **Efraim Turban and Jay E. Aronson**. 2005, 7th edition, Prentice-Hall, Inc. http://www.prenhall.com/turban/dss/

REFERENCE BOOKS

Code*	Description
	Business Intelligence Roadmap, by Larissa T. Moss and Shaku Atre, Addison Wesley, 2006 **Decision Support Systems**, by Clyde W. Holsapple and Andrew B. Whinston, West Publishing Company.

TUTORIAL SCHEDULE

#	Tutorial Week	Hrs	Topic

LABORATORY WORKSHOP SCHEDULE

#	Laboratory Week	Hrs.	Code	Description
1	2nd	2	S 415	Int. to visual IFPS, creating a simple IFPS model
2	3rd	2	S 415	Graphs in IFPS, Reports, and Dummy models
3	4th	2	S 415	IFPS database and Queries
4	5th	2	S 415	IFPS Exam
5	6th	2	S 415	Introduction to SPSS views
6	7th	2	S 415	SPSS analysis and graphs
7	8th	2	S 415	SPSS Exam
8	9th	2	S 415	Introduction to Simulation and Case Discussion
9	10th	2	S 415	Company name, slogan, and group facilitator
10	11th	2	S 415	Main Office, address, and cost, company class or category and price per unit?
11	12th	2	S 415	Promotion and Advertising
12	13th	2	S 415	Salespersons, Loans (long term, short term), issuing stocks, machines and in-house service
13	14th	2	S 415	Training and Quality programs Market Research
14	15	2	S 415	Project Presentation

COMPUTER USAGE

PCs used to provide hands on practice for topics coverd in lectures

GRADING AND ASSESSMENT METHOD

Week #	Points	Written	Oral	Term Paper	Continuous	Practical
7	30	30				
12	0					
1-15	30				10	20
16	40	40				

READING MATERIAL

Code*	Description

* TB : Text Book   RB: Reference Book   ST: Standards / Codes   LN: Lecture Notes

SUPPLEMENTARY MATERIAL

Code*	Description
OS	Slides will be used for both the Lectures and the Lab sessions.
	IFPS
SW	SPSS
	Air Line Simulation

*PR: Periodical   SW: Software   VT: Video Tape   OS: Overhead Slide Projector
MD: Model   AC: Audio Cassette

EDUCATIONAL RESOURCES
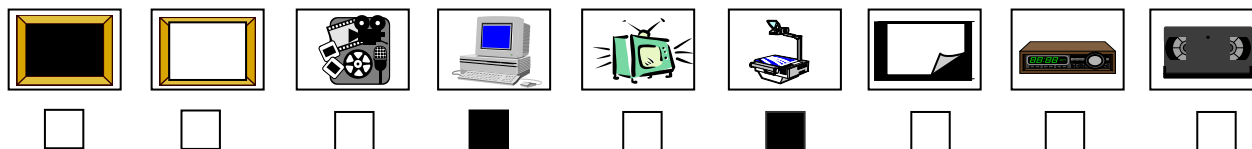
Prepared by:

Designation: Course Coordinator

Name: Dr. Walid Abdel Moez

Sign:

Date: 1/9/2010

Approved by:

Designation. Program Manager

Name: Dr. Walid Abdel Moez

Sign:

Date: 1/9/2010