COURSE FILE SUMMARY

COURSE INFORMATION

College:	Management & Technology	**Department:**	BIS Dept.
Program Title:	MIS Arabic & English	**Program Code:**	AS , ES
Course Title:	Information system Design	**Course Code:**	S318

# Hours	2 hr	2 hr	3 hr
	Lecture	Tutorial	Credit

Pre Requisites :

S226 Information Systems Analysis

COURSE AIM

This course is intended to provide the student with an understanding of design concepts, knowledge of design terms, and familiarity with design processes, tools, and notations. It is not intended to make him or her a software designer, because effective design requires considerable experience in software development. It is intended to help as a potential business systems analyst, to communicate efficiently and accurately with software development staff, including designers and programmers.

COURSE OBJECTIVES

- Building a solid understanding of system design and implementation phases of SDLC.
- Introducing several tools & techniques used in systems design & implementation.
- Emphasizing the use of systematic and structured methodologies.

STAFF REQUIREMENTS

	Qualifications	Special Skills	Number
Lectures	Ph.D. in CS or IS	Design Skills	1
Tutorials	BSc.in CS or MSc.	Design Skills	1
Laboratories / Workshops			

LECTURE SCHEDULE

#	Week	Hrs	Description
	Lecture		
1	1st.	2	Introduction to design phase.
2	2nd.	2	Selecting the best alternative design strategy.
3	3rd.	2	Generating alternative design strategy.
4	4th.	2	Physical database design.
5	5th.	2	Review of the Structure Query Language (SQL)
6	6th.	2	Designing physical Tables and Denormalization.
7	7th	2	**7th Week Exam**
8	8th.	2	Design elements.
9	9th.	2	Design architecture.
10	10th.	2	Designing forms and reports.
11	11th.	2	Designing interfaces.
12	12th.	2	System implementation and operation.
13	13th.	2	System implementation and operation (Conti).
14	14th.	2	Software application testing.
15	15th.	2	Why implementation sometimes fails.
16	17th	2	**Final Exam**

TEXT BOOKS

Code*	Description
	Joey F. George [et al.] , 2004, Object- oriented *Systems Analysis and Design, Pearson Education, Inc., Upper Saddle River, New Jersey.*

REFERENCE BOOKS

Code*	Description

TUTORIAL SCHEDULE

#	Week	Hrs.	Code	Description
	Tutorial			
1	2nd	2		Introduction to Object Orientation
2	3rd	2		Fundamentals of Object orientation I
3	4th	2		Fundamentals of Object orientation II
4	5th	2		Use case diagrams
5	6th	2		CRC / Scripts / Class Diagrams
6	7th	2		7th Week Exam
7	8th	2		Class Diagrams. Cont.
8	9th	2		State chart Diagrams.
9	10th	2		Activity Diagrams.
10	11th	2		Collaboration Diagrams.
11	12th	2		Sequence Diagrams.
12	13th	2		Comprehensive Exercises.
13	14th	2		Project Pre-Evaluation
14	15th	2		Project Evaluation
15	16th	2		Final exam

COMPUTER USAGE

Computer laboratory is required for all tutorials.

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

READING MATERIAL

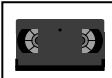| Code*	Description

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

SUPPLEMENTARY MATERIAL

Code*	Description
OS	Slides will be used along with the tutorial sessions
SW	Rational Rose

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

EDUCATIONAL RESOURCES

Prepared by :

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Sign:

Date: 1/7/2010

Approved by :

Name: **Dr.** Walid Abd El Moez

Sign:

Date: 1/7/2010