

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:	Introduction to Database	Course Code:	S211
# Hours:	----- 2 hr ----- Lecture	---- 2 hr ---- Lab / <u>Tutorial</u>	----- 3 hr ----- Credit
Pre Requisites: S121 Management Information Systems			

COURSE AIM

This course introduces the fundamental concepts necessary for the design, use, and implementation of database systems. The course emphasizes on the relational data model. The entity-relationship model is used for conceptual design and the SQL is used for physical design.

COURSE OBJECTIVES

- Introduce the fundamentals of database (DB) and database management systems (DBMS).
- Explain the database system development process.
- Provide the students with the fundamentals of data modeling.
- Provide in-depth knowledge of structured query language (SQL) and how it can be used to create and manipulate databases.
- Train the student on designing and implementing relational database using MS Access software.

STAFF REQUIREMENTS

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	Qualifications	Special Skills	Number
Lectures	Ph.D. CS or MIS	Practical Experience in DB	1
Tutorials	M.Sc. CS or MIS	Practical Experience in DB	1
Laboratories / Workshops	B.Sc. or M.Sc. CS or MIS	Practical Experience in DB	1

LECTURE SCHEDULE

Lecture			Description
#	Week	Hrs	
1	1 st .	2	Introduction to the database technology and its environment
2	2 nd .	2	Database development process
3	3 rd .	2	The Entity-Relationship (E-R) model
4	4 th .	2	The Entity-Relationship (E-R) model- continued
5	5 th .	2	The relational model
6	6 th .	2	Transforming ER model into relational model
7	7 th	2	Mid Term Exam
8	8 th .	2	Structured Query Language (SQL)
9	9 th .	2	SQL – DDL, DML and DCL
10	10 th .	2	SQL – more on Select statements
11	11 th .	2	Normalization
12	12 th .	2	Active database and triggers
13	13 th .	2	Data and database administration
14	14 th .	2	Client/server databases
15	15 th .	2	Revision
16	16 th .	2	Final Exam

TEXT BOOKS

Code*	Description
TB	Jeffery Hoffer, Mary Prescott, and Fred McFadden. Modern Database Management , 8 th Edition. ISBN: 0-013-127388-4. Prentice Hall, New Jersey. 2005
	http://www.prenhall.com/hoffer

REFERENCE BOOKS

Code*	Description
	Elmasri, R., and Navathe, S., Fundamentals of Database Systems (Pearson Education, Inc., 2004) fourth Edition (International Edition).
	C. J. Date, An Introduction to Database Systems , seventh Edition, Addison Wesley, Massachusetts, 2000.

TUTORIAL SCHEDULE

Tutorial			Topic
#	Week	Hrs	

LABORATORY WORKSHOP SCHEDULE

Lecture			Description
#	Week	Hrs	
1	2 nd	2	Introduction to MS Access
2	3 rd	2	Creating Tables and Relationships
3	4 th	2	Creating forms
4	5 th	2	Advanced forms and form customization
5	6 th	2	Advanced forms and form customization (cont)
6	7 th	2	Creating reports
7	8 th	2	Advanced reports and report customization
8	9 th	2	Creating queries using query-by-example (QBE) feature
9	10 th	2	Advanced queries
10	11 th	2	Macros
11	12 th	2	Revision and finalizing project work
12	13 th	2	Final Exam
13	14 th	2	Project Presentation

COMPUTER USAGE

PCs with MS office installed.

Week #	Points	Written	Oral	Term Paper	Continuous	Thesis	Computer Lab
7	40	30					
12	0						
1-15	10				10		
16	60	40					20

READING MATERIAL

Code*	Description

* TB : Text Book

RB: Reference Book


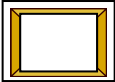







ST: Standards / Codes

LN: Lecture Notes

SUPPLEMENTARY MATERIAL

Code*	Description
OS SW	Slides will be used for the Lectures MS Access
<p>*PR: Periodical SW: Software VT: Video Tape OS: Overhead Slide Projector MD: Model AC: Audio Cassette NC: Notebook Computer</p>	

EDUCATIONAL RESOURCES

								
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Prepared by :

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Date: 1/7/2010

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