COURSE FILE SUMMARY

Course Information			
College	*Management and Technology*	**Department**	*Business Information System*
Programme Title	*Bachelor of BA*	**Programme Code**	*A/E*
Course Title	*Info. Systems Analysis*	**Course Code**	*S226*
# hours	*2 h* **Lecture**	*2 h* **Lab/Tutorial**	*3 h* **Credit**
Pre Requisites :	*A/ES211*		

Course Aim

Techniques and philosophies of systems analysis are addressed. Include traditional versus structured design methods, computer-based tools for systems analysis, workbenches, design and analysis of database systems, maintenance of existing information systems, human/machine interfaces, and security and control

Course Objectives

Define the systems analyst's role and responsibilities in a typical organization. Define systems planning, systems analysis, systems design, systems implementation, and systems support. Describe a phased approach to information systems development and describe cross-life cycle activities that overlap the entire life.Define and perform data modeling, process modeling, and network modeling and explain their importance. Course then focuses on tools and techniques that the programmer or the analysts can use to document information systems.

Staff Requirements			
	Qualifications	**Special Skills**	**Number**
Lectures	*PhD Candedate*	*Analysis Skills*	*1*
Tutorials			
Laboratories / Workshops	*BSc or MSc*	*Analysis Skills*	*1*

Lecture Schedule			
Lecture			Description
#	Week	Hrs	
1	1	*2*	*Assuming the Role of the Systems Analyst*
2	2	*2*	*Understanding Organizational Style and Its Impact on Information Systems*
3	3	*2*	*Information Gathering: Interactive Methods*
4	4	*2*	*Information Gathering: Interactive Methods (Cont.)*
5	5	*2*	*Information Gathering: Unobtrusive Methods*
6	6	*2*	*Information Gathering: Unobtrusive Methods (Cont.)*
7	7	*2*	***7th Week Exam***
8	8	*2*	*Using Data Flow Diagrams*
9	9	*2*	*Using Data Flow Diagrams (Cont.)*
10	10	*2*	*Analyzing Systems Using Data Dictionaries*
11	11	*2*	*Describing Process Specifications*
12	12	*2*	*Describing Structured Decisions*
13	13	*2*	*Preparing the Systems Proposal*
14	14	*2*	*Quality Assurance through Software Engineering*
15	15	*2*	*Successfully Implementing the Information System*
16	16	*2*	***Final Exam***

Text Books	
Code*	Description
TB	*Systems Analysis and Design, 7/E, Prentice Hall*

Reference Books	
Code*	Description
RB	*Modern Systems Analysis and Design, 5/E, Prentice Hall*

Tutorial Schedule			
Tutorial			Topic
#	Week	Hrs	
1	1		
2	2		
3	3		
4	4		
5	5		
6	6		
7	7		
8	8		

Laboratory Workshop Schedule				
Laboratory				Description
#	Week	Hrs.	Code	
1	2	*2*	*S226*	*Quick Tour of Oracle Designer and Creating an Application System*
2	3	*2*	*S226*	*Modeling Business Requirments using Process Modeler*
3	4	*2*	*S226*	*Modeling Data Requirments using Entity Relationship Diagram*
4	5	*2*	*S226*	*Review Project Diagrams of PM and ERD*
5	6	*2*	*S226*	*Identifying Functions to Automate using Function Hierarchy Diagram*
6	7	*2*	*S226*	*Cross-Checking Business Functions and Data*
7	8	*2*	*S226*	*Cross-Checking Business Functions and Data(cont)*
8	9	*2*	*S226*	*Server Design and Generation*
9	10	*2*	*S226*	*Modeling Business Requirments using Dataflow Diagrams*
10	11	*2*	*S226*	*Modeling Business Requirments using Dataflow Diagrams (Cont.)*
11	12	*2*	*S226*	*Review Project Diagrams of FHD and DFD*
12	13	*2*	*S226*	*Using the Repository Object Navigator*
13	14	*2*	*S226*	*The Matrix Diagrammer and Generating Repository Reports*
14	15	*2*	*S226*	***Final Exam***

Computer Usage
The Computer will be used in all Lab sessions. Computers should be networked using a clinet/server architecture, where client machines are connecting to a database server containg the repository and modeling diagrams

Grading and Assessment Method							
Week #	Points	Written	Oral	Term Paper	Continuous	Thesis	Practical
7	30	*30*					
12	0						
1-15	10				*10*		
16	60	*40*					*20*

Reading Material	
Code*	**Description**
RB	*Inside Oracle Designer/2000*
RB	*Oracle Designer/2000 Handbook*

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

Supplementary Material	
Code*	**Description**
SW	*Microsoft Windows 2003 Standard Edition (Server Side)*
SW	*Microsoft Windows XP (Client Side)*
SW	*Oracle Designer or Oracle Developer Suite*
SW	*Oracel Database*

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

Educational Resources

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