



Flow up of  
implementation  
syllabus

<b>Course Instructor</b>	Serri Ismael hamad				
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<b>Title</b>	Data Base				
<b>Course Coordinator</b>	Annual				
<b>Course Objective</b>	<p>1) To understand the various problems associated with designing and implementing a database system.</p> <p>2) Study database design from a realistic and logical perspective, modeling the database using relational, hierarchical or network databases.</p> <p>3) To understand and use data processing language in terms of querying data, updating and managing a database</p> <p>4) To develop and understand basic database management systems concepts such as: database security, integrity, concurrency, distributed databases, intelligent database, client/server principle (database server), data storage.</p> <p>5) Design and build a simple database system and demonstrate general proficiency with the basic tasks associated with modelling, design, and implementation of database management systems.</p>				
<b>Course Description</b>	The course description provides a necessary summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, demonstrating whether he has made the most of the available learning opportunities, and this must be linked to the program description.				
<b>Textbook</b>	<p>DATABASE SYSTEMS The Complete Book Jennifer Widom, Hector Gorrcia-Molina, Jeffrey D. Ullman Pearson Prentice Hall 2002-2009.</p> <p>Developing Information Systems: concepts, Issues, And Practice C. Avgerou And T. Cornford, 2nd Ed., Macmillan Press, 1998.</p>				
<b>Course Assessment</b>	Term Tests	Laboratory	Quizzes	Project	Final Exam
	30	15	5	-	50
<b>General Notes</b>					



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## Course weekly Outline

week	Date		Lab. Experiment Assignments	Notes
1	17/9/2023	System analysis and desidn – overview	Sql * plus structure	
2	24/9/2023	Element of system	Sql * plus instruction	
3	01/10/2023	Types of systems	Data retrieval(Select)	
4	08/10/2023	Systems models	Data manipulation language(update,delete)	
5	15/10/2023	Structure analysis :the life cycle of the SDLC system	DDL(create, alter, drop,rename,truncate)	
6	22/10/2023	Role of system analyst	Transaction control(commit,rollback,savepoint)	
7	29/10/2023	System planning	Data control language (grant,revoke)	
8	05/11/2023	Information gathering techniques	Select statement	
9	12/11/2023	Introduction of relationships model	Retrieve fields with aliases	
10	19/11/2023	Data model using ER and types of attributes	Using and implementing mathematical operations with select	
11	26/11/2023	Example about ER	Concatenation(  )	
12	03/12/2023	Example about ER	Using the statement(Distinct)to prevent duplication of records	
13	10/12/2023	Introduction of database and database models	Using (describe) show the internal structure	
14	17/12/2023	Classification of DBMS	Restricting and sorting data	
15	24/1/2023	Exams	Exams	
16	31/1/2023	Exams	Exams	



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University:  
College:  
Department:  
Stage:  
Lecturer name:  
Academic Status:  
Qualification:  
Place of work: Thi - Qar  
Pure Science

Computer science

second

serri Ismael hamad  
lecturer

master

Thi - Qar Pure science

17	28/1/2024	Joint application development (JAD)	Using where statement	
18	04/2/2024	Fesasibility study	Order by statement	
19	11/2/2024	Data flow diagrams(DFD)	Comparison operator	
20	18/2/2024	Decision tables	Logical operation	
21	25/2/2024	System design	Single –row functions	
22	03/3/2024	Documentation control	Number functions	
23	10/3/2024	Characteristics of System Testing	Data function	
24	17/3/2024	System Implementation and Maintenance	Conversion function	
25	24/3/2024	Risk Analysis	Group functions	
26	31/3/2024	Object Oriented Approach	Create groups of data using group by	
27	07/4/2024	Data Independence	Displaying data from multiple tables	
28	14/4/2024	Normalization	Equijoin	
29	21/4/2024	Problems without Normalization	Non equijoin	
30	28/4/2024	Example about normalization	Outer join	
31	05/5/2024	Structure Query Language (SQL)	Self-join	
32	12/6/2024	Exams	Exams	

تؤيد اللجنة العلمية مطابقة الخطة التدريسية لمفردات منهج المادة الدراسية

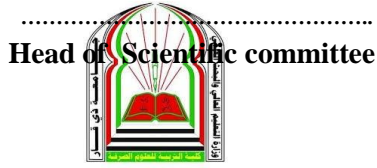
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Instructor Signature(Lab.)

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Instructor Signature(Theoretical)

Republic of Iraq  
The Ministry of Higher Education  
& Scientific Research  
2024-2023



University:  
College:  
Department:  
Stage:  
Lecturer name:  
Academic Status: Dean  
Qualification:  
Place of work:



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