
	Hashemite University	
	Prince Al-Hussein bin Abdullah II Faculty for Information Technology	
	Department of Computer Information Systems	

Course Syllabus

Year: 2020-2021

Semester: (1)

Course No.	Course Title	Designation	Prerequisite	Co-requisite	Credit Hours .Lectures /Lab
151002241	Introduction to database systems Lab	Required	151002240 concurrent	-	1 / 0

Instructor Name	E-mail	Office No.	Office ext.	Office Hours
Randa Obeidallah	Randa.ali@hu.edu.jo	3 rd floor 4	4628	Sun, Tue, Thu (10-11)
Hasan Al Da'jah	hidhaim@hu.edu.jo	3 rd floor 7	-	TBA

Coordinator's Name:	Hasan Idhaim
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Course Description	This course is a complement to the introduction to the database systems course. It aims to provide the students by a complete set of skills required to develop database systems using the ORACLE programming language which includes programming in the PL/SQL environment and writing programs using SQL. In addition, it includes exercises and practical applications which better suits the subjects covered in the introduction to the database systems course
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a) Textbook(s):
1. Elmasri R. and Navanthe S. B., "Fundamentals of Database Systems", 6th edition, Addison Wesley.
b) Additional References:
1. Recommended references/worksheets will be advertised in lectures and on Moodle during the semester
2. Alice Rischert, "Oracle SQL by Example" / 4th edition

Course Learning Outcomes CLOs
1. Demonstrate the use of Oracle SQL command editor. (2)
2. Illustrate Data Definition Language (DDL) and Manipulation Language (DML) clauses. (2)
3. Define Integrity Constraints (Check, Foreign Key, Column, and Table Constraints), Aggregate (group), Functions, nested query and Views. (2,3,5)
4. Explain the use of PL/SQL programming and procedures. (2,3,5)
Addressed Student Learning Outcomes (SLOs)
2,3 and 5

Topic Details	CLO number	Reference	No. of Weeks	Contact *hours
1. Introduction to ORACLE SQL commands	1	Explained in Class	1	2
2. Data Definition Language DDL(Create, alter, and drop schema objects)	2	Ch 4/ Worksheet	2	4
3. Data Manipulation Language DML(Insert, update, and select)	2	Ch 4/ Worksheet	2	4
4. SQL UNION, JOIN, and nested query	3	Ch 4 and Ch5 /Worksheet	2	4
5. Aggregate(group) , Functions(count, max, min, sum, and etc...functions)	3	Ch 5/ Worksheet	3	6
6. Integrity Constraints(Check, Foreign Key, Column, and Table Constraints)	3	Ch 5/ Worksheet	2	4
7. Programming in PL/SQL(Block and Cursor)	4	Worksheet	2	4
Total			14	28

Assessment method	Grade	Comments
Mid-term Exam	40%	Covers topics 1,2, 3,4 and 5
Projects / Quizzes	20%	TBA
Final Exam	40%	Covers all topics
Total	100%	