COURSE DESCRIPTIONS

Faculty	Science and Information Technology				
Department	Computer Science			NQF level	6
Course Title	Database Application	Code	501491	Prerequisite	--------
Credit Hours	3	Theory	3	Practical	0
Course Leader	M. Mohammad Al-issa	email		mohammadal-issa@jadara.edu.jo	
Lecturers	M. Mohammad Al-issa	emails		mohammadal-issa@jadara.edu.jo	
Lecture time	08.30-09.45 Sun :Wed	Classroom		Distance learning	
Semester	Summer	Production		Updated	2020-2021
Awards	Bachelor Degree			Attendance	Fulltime

Short Description

- This course includes: The technical approach to database design and real implementations using ORACLE (SQL, PL-SQL, FORMS, REPORTS, and GRAPHICS).

- The specific focus of the proposed course is to study several areas in which privacy and technology are thought to be in conflict, decide if these conflicts are real and, if so, discuss what could reasonably be done about them in the areas of both technology and policy. The subtext of this thrust is that much of the current debate over the privacy-invasiveness of technology rests on misunderstandings of what is really possible with technology and which technologies constitute the most potent threats to individual privacy.

Course Objectives

Students will learn how to

a) learn designing database systems and designing reusable system software.
b) learn how to use ORACLE in developing real systems.
c) gain experience in developing and implementing database systems.
d) Be able to apply database systems technology to solving real-world problems.
e) examine theoretical and practical ideas underlying relational databases.

Learning Outcomes

A. Knowledge - Theoretical Understanding

The student upon completion this course will be able to:
a1: An ability to Designing and implementing database systems (K1)
a2: Develop programming skills using ORACLE (K2)

B. Knowledge - Practical Application

The student upon completion this course will be able to
a3: Students should learn how to build real database systems(K3)

C. Skills - Generic Problem Solving and Analytical Skills

b1: Use control structures to solve problem, error detection and correction. (S1)

D. Skills - Communication, ICT, and Numeracy

b2: Apply development of Application and problem-solving using GUI. (S2)
E. Competence: Autonomy, Responsibility, and Context
Teaching and Learning Methods
Distance Learning
Assessment Methods
By quizzes, home works and exams

Course Contents					
Week	**Hours**	**CLOs**	**Topics**	**Teaching & Learning Methods**	**Assessment Methods**
1,2,3	9	a1	Introduction to ORACLE, and SQL language	Distance learning	home works
4,5,6	9	a1, a2	Database using SQL(DDL,DML,DCL)	Distance learning	quiz
6,7	6	a3, b1	SQL Integrity Relationships	Distance learning	Mid Term
8,9,10	9	a1, b1, b2	Oracle Express User Interface	Distance learning	
11,12	6	a1, b2	Oracle Express Applications	Distance learning	Final Exam

Infrastructure	
Textbook	Elmasri & Navathe, "Fundamentals of Database Systems", Addison Wesley
References	SBN-13: 978-0-13-397077-7
Required reading	
Electronic materials	**Available on :** **http://elearning.jadara.edu.jo/CourseContent/index/11919/**
Other	**Any other book related to Oracle Application Programming**

Course Assessment Plan									
Assessment Method	**Grade**	**CLOs**							
		a1	**a2**	**a3**	**b1**	**b2**	**b3**	**c1**	
Midterm	30 %	15%	8%	7%	0%	0%	0%	0%	
Second (if applicable)	0%	0%	0%	0%	0%	0%	0%	0%	
Final Exam	50%	5%	5%	10%	15 %	15 %	0 %	0 %	
Coursework	20%	4%	4%	4%	4%	4%	0%	0%	
‫ي ع د‬ Assignments	5%	0%	0%	5%	0%	0%	0%	0%	

	Case study	0%	0%	0%	0%	0%	0%	0%	0%
	Discussion and interaction	5%	5%						
	Group work activities	0%	0%	0%	0%	0%	0%	0%	0%
	Lab tests and assignments	0%	0% online						
	Presentations (<mark>simulation</mark>)	5%	5%						
	Quizzes	5%	0%	0%	0%	0%	5%	0%	0%
Total		100 %	24%	17%	21%	19%	19%	0%	0%

Plagiarism
Plagiarism is claiming that someone else's work is your own. The department has a strict policy regarding plagiarism and, if plagiarism is indeed discovered, this policy will be applied. Note that punishments apply also to anyone assisting another to commit plagiarism (for example by knowingly allowing someone to copy your code). Plagiarism is different from group work in which a number of individuals share ideas on how to carry out the coursework. You are strongly encouraged to work in small groups, and you will certainly not be penalized for doing so. This means that you may work together on the program. What is important is that you have a full understanding of all aspects of the completed program. In order to allow proper assessment that this is indeed the case, you must adhere strictly to the course work requirements as outlined above and detailed in the coursework problem description. These requirements are in place to encourage individual understanding, facilitate individual assessment, and deter plagiarism.