

جامعة الزيتونية الأردنية Al-Zaytoonah University of Jordan كلية العلوم وتكنولوجيا المعلومات Faculty of Science and Information Technology



" عراقة وجودة" "Tradition and Quality"

Detailed Course Description - Course Plan Development and Updating Procedures/ Computer Information Systems Department

QF01/0408-3.0E

Faculty	Faculty of Science And Information Technology	Department	Computer Information Systems
Course Number	0113325	Course Title	Database Management System
Number of Credit Hours	3	Pre-Requisite/Co-Requisite	Databases

Brief Course Description

SQL, data definition language DDL, data manipulation languages DML, and data control language DCL, PL/SQL, Control Structure statements, Functions, Procedures, Packages and Triggers. Records and tables, Oracle developer Forms include Triggers and LOVs, property palette, Writing PL/SQL in trigger, Item types, canvas types. Different Style of Reports. Practical applications and Projects.

	Course Goals and Learning Outcomes		
Goal 1	Building the Database using Data Definition Language, Data Control Language and DML.		
Learning Outcomes			
Goal 2	To write and execute programs using PL/SQL.		
Learning Outcomes	 2.1 Use the Relational model and how it is supported by SQL and PL/SQL. 2.2 Enhance the knowledge of the processes of Database Development and Administration using SQL and PL/SQL 2.3 Solve Database problems using Oracle 12c SQL and PL/SQL. This will include the use of Procedures, Functions, Packages, and Triggers. 2.4 Handle runtime errors 		
Goal 3	Using Forms Builder to start our application development.		
Learning Outcomes	 3.1 Create and run simple forms and add functionality to a form by writing PL/SQL code. 3.2 Create multiple-form applications. And using menu. 3.3 Display form modules in multiple windows. 		
Goal 4	Use Reports Builder and design different styles of reports		
Learning Outcomes	4.1 Create and run simple reports.4.2 Create and rum different styles of reports with forms		
Textbook	 1. Oracle Database 12c The Complete Reference (Oracle Press) 1st Edition by Bob Bryla , Kevin Loney ,2014, McGraw-Hill. 2. Oracle Forms and Reports 12c Documentation 		
Supplementary References	 Oracle SQL Developer, 2016,by Ajith Narayanan, Packet Publishing. Advanced Oracle PL/SQL Developer's Guide - Second Edition, 2016 by Saurabh K. Gupta. Packet Publishing. Murach's Oracle SQL and PL/SQL for Developers, 2nd Edition, by Joel Murach, 2014. Mike Murach and Associates, Inc. 		



جامعة الزيتونية الأردنية Al-Zaytoonah University of Jordan كلية العلوم وتكنولوجيا المعلومات Faculty of Science and Information Technology



" عراقة وجودة" "Tradition and Quality"

Detailed Course Description - Course Plan Development and Updating Procedures/ Computer Information Systems Department

QF01/0408-3.0E

4. Oracle PL/SQL Language Pocket Reference: A Guide to Oracle's PL/SQL Language Fundamentals 5th Edition, by Steven Feuerstein, Bill Pribyl, Chip Dawes, 2015, O'Reilly Media, Inc

Course Timeline				
Week	Number of Hours	Course Topics	Pages (Textbook)	Notes
01	1 1 1	 SQL. Review DDL Commands, Database objects. DML: insert, delete, update Data Control Language Oracle data dictionary 	77-102 275-292	
02	1 1 1	SQL. & SQL plus - All Select Statements. - Sub queries Single-Value Functions. - Character & Numeric & Date Functions	105-239	
03	1 1 1	 PL/SQL. Introduction to PL/SQL Declaring variables and assigning values. Conditional logic Case Statements 	545-567 295-308	
04	1 1 1	PL/SQL: - Loops - Cursors - Exception handling	567-580	
05	1 1 1	PL/SQL: - Triggers. - Types of Triggers - Trigger Syntax	581-603	
06	1 1 1	PL/SQL - Function. - Procedures. - Packages	603-624	
07	1 1 1	Forms Builder: - Forms Compiler and Forms runtime - Query builder - Data Block Form	Oracle Forms 12c Documentation	Text2
08	1 1 1	 Object navigator. Layout editors tools Property palette 	Oracle Forms 12c Documentation	Text2
09	1 1	Writing code with Developer.Procedure Builder and PL/SQL.	Oracle Forms 12c	Text2



جامعة الزيتونــة الأردنيـة Al-Zaytoonah University of Jordan كلية العلوم وتكنولوجيا المعلومات Faculty of Science and Information Technology



" عراقة وجودة" "Tradition and Quality"

Detailed Course Description - Course Plan Development and Updating Procedures/ Computer Information Systems Department

QF01/0408-3.0E

		<u> </u>	· p · · · · · · · · · · · · · · · · · ·		
	1	- Triggers		Documentation	
10	1 1 1	 Using Graphical el The form runtime e Creating a form ma 	Oracle Forms 12c Documentation	Text2	
11	1 1 1	 Item types List items, check box, radio buttons LOVs, Canvases. 		Oracle Forms 12c Documentation	Text2
12	1 1 1	 Developer Application design. Application interface. Database object creating. Creating the Database schema. 		Oracle Forms 12c Documentation	Text2
13	1 1 1	Menu EditorsLibrary editorUsing Property pal	Oracle Forms 12c Documentation	Text2	
14	1 1 1	 Form search types Multiple Tables form (master-detail) More Triggers. 		Oracle Forms 12c Documentation	Text2
15	1 1 1	Reports Builder. - Tabular reports, Form like report. - Group left and group above report, Matrix report - Report views		Oracle report 12c Documentation	Text2
16	1 1 1	Projects Discussion Final Exam			
Theoretical Course Evaluation Methods and Weight		Participation = 10% First Exam 20% Second Exam 20% Final Exam 50%	Practical (Clinical) Course Evaluation Methods	Semester Stu Work = 50 (Reports, Res Quizzes, E	0% search,

and Weight Final Exam 50%		Meth	ods	Quizzes, Etc.) Final Exam = 50%		
Approved by Head of		Date of Appro	val			
Department		Dute of Approval				
Extra information (to be updated every semester by corresponding faculty member)						
Name of Teacher		Office Number				
Phone Number (Extension)		Email	@zuj.edu.jo		edu.jo	

Office Hours