

FACULTY OF COMPUTER APPLICATIONS

Programme	B. Sc. IT (Hons.)					Branch/Spec.	Computer Applications					
Semester	III					Version	1.0.0.0					
Effective from Academic Year				2025-26		Effective for the batch Admitted in			June 2024			
Subject Code	U23A2DM2		Subject Name			Database Management System-II						
Teaching scheme						Examination scheme (Marks)						
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total			
	L	TU	P	TW		Theory	50	50	100			
Credit	2	-	2	-	4							
Hours	2	-	4	-	6							
Objective:												
Students can apply the knowledge for Data Management and Data Administration and can perform the role of DBA.												
Pre-requisites:												
Must have basic knowledge of DBMS & RDBMS.												
Course Outcomes :												
Name of CO		Description										
CO1		They learn about creation of database, deletion of database, creation of a tablespace and manage account of different schemas.										
CO2		Manage different database tasks very easily using Enterprise Manager.										
CO3		They will learn about PL/SQL basics and exception handling in PL/SQL.										
CO4		They will learn about procedure, function, trigger and package.										
	Mapping of CO and PO											
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	3	2	3	1	1	1	2	1	2	1
CO2	1	2	3	1	3	1	2	1	1	2	2	1
CO3	1	0	3	0	3	1	2	1	1	0	2	1
CO4	1	0	3	0	3	1	2	2	2	1	2	1

Theory syllabus		
Unit	Content	Hrs
1	Database Configuration Assistant & Managing Database Storage Structures Creating an Oracle Database: Objectives, Planning the Database, Database Configuration Assistant (DBCA), Using DBCA to create a database, Password Management, Creating a Database Design Template, Using the DBCA to Delete a Database Managing Database Storage Structures How Table Data Is Stored, Creating a New Table space, Storage for Locally Managed Table spaces, Table spaces in the Preconfigured Database, Altering a Table space, Actions with Table spaces, Dropping Table spaces, Viewing Table space Information, Gathering Storage Information, Viewing Table space Contents, Enlarging the Database	9
2	Managing the Oracle Instance Objectives, Management Framework, Starting and Stopping Database Control, Oracle Enterprise Manager, Accessing Oracle Enterprise Manager Using SQL*Plus and iSQL*Plus to Access Your Database	8
3	PL/SQL-I Introduction to PL/SQL, The PL/SQL Block Structure, Control structure, Processing a PL/SQL block,PL/SQL cursors: What is cursor?, Types of cursor, Cursor FOR loops, Exception handling in PL/SQL : Types of exceptions in PL/SQL	7
4	PL/SQL-II Create Procedure, Drop Procedure, Create Function, Drop Function, Create Trigger, Drop Trigger, Create Package, Drop Package	6
Practical Content:		
List of programs specified by the subject teacher based on above mentioned topics		
Text Books:		
1	SQL, PL/SQL The Programming Language of Oracle by Ivan bayross (4th Edition), BPB Publications	
2	Oracle DBA Bible by Janathan Gennick, Carol McCullough-Dieter and Gerrit- Jan Linker, WILEY-Dreamtech Publication	
Reference Books:		
1	Database Management Systems by Raghu Ramakrishnan and Johannes Gehrke	
2	An Introduction to Database Systems by C.J. Date,McGraw Hill	
Web References / MOOC / Certification Course		
1	https://www.coursera.org/learn/oracle-database-platform	
2	https://www.coursera.org/learn/oracle-database-platform#about	
3	https://www.edx.org/learn/databases/ibm-relational-database-administration-dba#syllabus	

Question Paper Scheme:

University Examination Duration: 2 Hours

Note for Examiner:

Q-1 Must be common from any topics from the syllabus.

Q-2 And onwards must be from specific topics and internal choice or option can be given.

Paper Structure:

Q-1 Must be from all Unit Any Five out of seven **(25 Marks)** [CO1, CO2, CO3, CO4]

Q-2 Must be from Unit 1: Any Two out of Three **(06 Marks)** [CO1]

Q-3 Must be from Unit 2: Only one question without any option **(05 Marks)** [CO2]

Q-4 Must be from Unit 3: Any Two out of Three **(08 Marks)** [CO3]

Q-5 Must be from Unit 4: Any Two out of Three **(06 Marks)** [CO4]