SCHEME OFCOURSEWORK

DEPARTMENTOFINFORMATIONTECHNOLOGY

CourseDetails:

CourseTitle	DataBase ManagementSystemsLab(DBMS)		
CourseCode	15CT1112	L T P C	0 0 3 2
Program:	B. Tech.		
Specialization:	CommontoIT&CSE		
Semester	IV		
Prerequisites	NIL		
Coursestowhichitis a prerequisite	DW&DM,DDB.		

CourseOutcomes(COs):

A graduate of engineeringwill beableto

CO1	Createrelationaldatabase.
CO2	Manipulatedata in database usingSQl.
CO3	Use aggregatefunctions
CO4	CreatePL/SQLprograms
CO5	Developprograms using triggersandcursors

CourseOutcome versusProgramOutcomes:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO-1	3	3	3	3	3						3	3	2		
CO-2		2		2									2		
CO-3	2		2	2									2		
CO-4		3	2		2								2		
CO-5	2	3		2									2		

S -Stronglycorrelated,M-Moderatelycorrelated,Blank-No correlation

AssessmentMethods:	Lab internalTest/Viva /Dailyperformance/End Exam

Teaching-Learning andEvaluation

Week	TOPIC/CONTENTS	Course Outcomes	Samplequestions	*TEACHINGLEARNINGSTRATEGY	Assessment Method& Schedule
1	IntroductiontoOracle, Creation of table, datatypes, Displayingtabledefiniti on UsingDESCRIBE, insertingrowsintotablea	CO1,CO 2	1. whatis DBMS? 2. whatisrelational d atabase 3. syntax forinsertinga rowinSQL	Lecture,PPT,Task-basedinteraction	Daily performance and viva
2	Projection, ORDER BY clause, Altering anddroppingof tables(useconstraintsw hilecreatingtables)exam plesusingSELECTcom mand	CO2,CO 3	1. Whatisthe use ofORDERBY? 2. How to updatea table?	Lecture,PPT,Task-basedinteraction	Daily performance and viva
3	Queries usingANY,ALL,IN,EXISTS,NOTEXISTS,UNION,	CO3,CO 4	1. Difference betweenALL and UNION? 2. Whatisa constraint?	Lecture, PPT,Task-basedinteraction	Daily performance and viva
4	INTERSET,Constraints. QueriesusingAggregate functions (COUNT,SUM, AVG, MAX andMIN), GROUP BY, HAVINGand	CO1	1. Listsomemath ematicalfuncti onswithitsuses ? 2. Whatisa view?	Lecture,PPT,Taskbasedinteraction	Dailyperformanceand viva

5	Queries using Conversion functions(to_char ,to_numberandto_date), stringfunctions(Concatenation,lpad, rpad, ltrim, rtrim,lower, upper, initcap,length,su bstrandinstr),datefunction s (Sysdate, next_day,	CO1	1. Listsomestrin gfunctionswit hitsuses? 2. Which formatesysdat e is displayed? 3. Differencebet weentrunkan d round	Lecture,PPT,Taskbasedi nteraction	Dailyperf or manceand viva
6	add_months, SUBQUERIES(Multi plelast_day, Subqueries, nested subqueries)	CO3	1. whatis anestedquery ?	Lecture,PPT,Taskbasedi nteraction	Dailype rfor mance and viva

			multiple query?		
7	Creation of simple PL/SQLprogramwhichinc ludes declaration section, executablesectionan d exception– Handling section (Ex.Student markscanbeselected from the tableand printed for thosewho securedfirst classandanexception canberaisedifnorecordswer efound). a. Insertdata intostudent tableanduse COMMIT,	CO3	Whatis 1. PL/SQL Whatis 2. differencebe tweenPL/S QL andSQL? How to handleExcepti ons? 3.	Lecture,PPT,Taskbasedinteraction	Dailyperfor manceand viva
8	LABCYCLE 'EST–I				

9	CONTROL STRUCTURES (IF statement,Loop… EndLoop,Exit command, WhileLoop,ForLoop,Got o statement).	CO1	1. whatdoes END do? howcan 2. beinfinitelo opexitedinb etween? IsGOTOago 3. odcontrolstr ucture?Why ?	Lecture,PPT,Taskbasedinteraction	Dailyperfor manceand viva
10	Nested loops using ERROR Handling, BUILT –IN Exceptions,USEdefinedEx ceptions,RAISE-APPLICATIONERROR.	CO1,CO2	1. How areloopsnestedi nSQL? 2. Difference betweenuser definedandb uilt-inexceptions 3. How to	Lecture,PPT,Taskbasedinteraction	Dailyperfor manceand viva
11	Programsdevelopment usingcreationofprocedures, passing parametersINandOUT ofPROCEDURES.	CO3, CO4, CO5	1. Whatis procedure? 2. How areinand out	Lecture,PPT,Task-basedinteraction	Daily performance and viva

			passed tothem?		
12	Program development using creationofstoredf unctions, invoke functions in SQL Statements and	CO3, CO4, CO5	1. How to invoke functionsinSQLs tatements? 2. How to store a function?	Lecture,PPT,Task-basedinteraction	Daily performance and viva
13	Programdevelopment using creation ofpacka gespecification,packageb odies,privateobjects, package variablesand cursorsandcallingstoredpa	CO3, CO4, CO5	1. What are package? 2. What is a cursor? How a 3. packagecan becalled?	Lecture,PPT,Task-basedinteraction	Daily performance and viva

14	Developprogramsusing featuresparametersinaCURSOR, FOR UPDATE CURSOR, WHERE CURRENTof clause and CURSOR variables.	CO3, CO4, CO5	1. What are featuresparameter? 2. What WHERE CURRENT clausedo?	Lecture,PPT,Task-basedinteraction	Daily performance and viva
15	DevelopProgramsusing BEFOREand AFTER Triggers,RowandStatementTriggersandINSTEADOFTriggers.	CO3, CO4, CO5	1. Whatisa TRIGGER? 2. Difference between rowand statementtrigger?	Lecture,PPT,Task-basedinteraction	Daily performance and viva
16	LABCYCLETEST-II				
17/18	ENDEXAM				