## Name of the Course: PLSQL Practical

Sr.No.	Heading	Particulars			
1	Description the	PL/SQL, Oracle's procedural extension language for SQL,			
	course:	allows developers to include procedural language			
	Including but Not	components such as loops, conditional statements and			
	limited to:	functions. The course enables students with practical			
		experience in using PL/SQL for effective databa	se		
	N .1 1	programming and development.			
2	Vertical :	Skill Enhancement Course(SEC)			
3	Type:	Practical			
4	Credits :	2 credits			
5	Hours Allotted :	60 Hours			
6	Marks Allotted:	50 Marks			
7	Course Objectives(CO	,			
		d the basics of PL/SQL and gain knowledge about			
		conditional statement in PL/SQL.			
		nd working with cursors, collections and composite			
	data types in Pl				
		ise in creating stored procedures and functions.			
		blore the use of triggers to automate responses to events hin the database.			
		concept of Exception handling. r applications using packages.			
8	Course Outcomes (O				
	OC 1. Use PL/SQL variables ,data types, control and conditional statement.				
	OC 2. Apply sequences and cursor in PL/SQL.				
	OC 3. Work with Collection and Composite Data Types.				
	OC 4. Develop PL/SQL structures like functions, procedures and triggers for				
	database appli				
		and exceptions in PL/SQL programs.			
	OC 6. Develop PL/SC	L packages.			
9	Modules:-				
	Module 1:				
	1. PL/SQL Basics- Us	se of variables, Write executable statement,			
	Interacting with Ora	cle Server, Create anonymous PL/SQL			
	block,Sequences				
	2. Control Structure in PL/SQL- Using while loop, Do loop, For loop,				
	Use of GOTO state	Use of GOTO statement 30			
	3. Create conditional	statement using PL/SQL- Using if statement,	Hrs		
	Using if else statement, Using elsif ladder, Using case expression.				
	4. Create cursor in PL/SQL- Implicit cursor, Explicit cursor,				
	Parameterized cursor				
		mposite Data Types - Working with			
	Collections, Working	with Composite Data Types			

	Module 2:  1. Creation of Procedures in PL/ 2. Functions in PL/SQL 3. Creation of Trigger – Create R level trigger, Create instead of the Handling exceptions – Creation Creation of system defined exceptions – Creation of Package in PL/SQ	ow level trigger, Create Statement rigger of user defined exception, eption	30 Hrs	
10	Text Books  1. Programming with PL/SQL for Beginners , H. Dand, R. Patil and T. Sambare, X -Team  2. Oracle pl/sql Programming ,Feuerstein, S., & Pribyl, B. ," O'Reilly Media, Inc.".			
11	<ol> <li>Reference Books</li> <li>Oracle Database PL/SQL Language Reference, 12c Release 1 (12.1) E50727-04, Alpern, D., Belden, E., Agrawal, S., Baer, H., Castledine, S., Chang, T., &amp; Yang, M.</li> <li>Oracle PL/SQL for dummies, Rosenblum, M., &amp; Dorsey, P. (2006), John Wiley &amp; Sons.</li> <li>PL/SQL Programming, Ivan Bayross, BPB</li> </ol>			
12	Internal Continuous Assessment: 40%	Semester End Examination: 60%		
13	Continuous Evaluation through: Students are expected to attend each practical and submit the written practical of the previous session. Performing Practical and writeup submission will be continuous internal evaluation. 2.5 marks can be awarded for each practical performance and writeup submission totalling to 50 marks and can be converted to 20 marks.	30 marks practical exam of 2 hours		
14	Format of Question Paper: Duration 2 hours. Certified copy of Journal compulsory to appear for the practical examination  Practical Slip: Q1. From Module 1 13 marks Q2. From Module 2 12marks Q3. Journal and Viva 05 marks			