## Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj Master of Science (Computer Applications & Information Technology) Semester: IV

Paper Code: CCCS416		Total Credit :		
Title	of Paper: Practical Based on CCCS414 and Elective Courses	04		
		Total Marks :		
		Time : 3 Hrs		
	1. The instructor shall formulate appropriate laboratory exercises wh	ich can result into		
	good understanding of following PL/SQL concepts:			
	a. Block structure (three practicals)			
	c. Operators (three practicals)			
	d. Control structures (three practicals)			
	e. Procedures and functions (five practicals)			
	f. Cursors (three practicals)			
	g. Triggers (three practicals)			
	2. Hands-on understanding of any one distributed database (preferabl installation, understanding basic functions, study of algorithms used (At the end of the student shall write down the findings in the journal	y Apache HBase): d and applications.		
	(in the one of the student shall write down the infangs in the journal	•)		
	3. The instructor shall formulate appropriate laboratory exercises wh good understanding of following TCL commands on Oracle database	ich can result into :		
	a. Commit b. Bollback			
	c. Savepoint			
	4. To understand the architecture and design issues in following:			
	a. Multimedia databases			
	b. Mobile databases			
	d. Spatial databases			
	e. Temporal databases			
	5. To get hands-on experience with NoSQL databases (e.g. HBase, Mor	ngoDB)		
	6. To get hands-on experience with In-memory databases (e.g. Aerospik	ae)		
Floot				
Liett	Heap			
1.	Finding k-smallest element in mean-Heap.			
2.	Implement Queue using Heap.			
3.	Union of two given Heaps.			
4.	Given $n$ lists of sorted integers, find the smallest range that includes a	t least one number		
	from each of the <i>n</i> lists.			
5	Implementing sorting and searching algorithms (all algorithms as per svi	labus).		
5.	Imprementing sorting and something algorithms (an algorithms as per syn			
Graphs				
6.	Count simple paths for given graph G has simple paths from source S	to destination D?		
7	Assume that graph is represented using adjacent matrix.	nted using adjacent		
/.	matrix.	med using adjacent		
8.	Finding depth of directed acyclic graph (DAG).			

## Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj Master of Science (Computer Applications & Information Technology) Semester: IV

Paper Code :	Total Credit : 4 Total Marks : 70				
Title of Paper: Practical Based on CCCS414 and Elective Courses			Time : 3 Hrs		
Unit	Unit Description		Total Marks		
Ι	Q.1 (A) Viva – Voce	20	70		
	Q.1 (B) Practical	50			