

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

Paper Code: CCCS312		Total Credit : 4 Total Marks : 70 Time : 3 Hrs
Title of Paper: Practical Based on CCCS310 and Elective Courses		
Unit		
Description		
	<ol style="list-style-type: none"> 1. To create ER diagrams using MS Access and at least one other such tool e.g. MS Visio. 2. To create a database from given ER diagram. 3. To understand Primary Key constraint. (<i>Given an ERD, the students shall identify suitable primary keys for each table.</i>) 4. To understand Foreign Key constraint. (<i>Identify suitable relationships and foreign keys and granularity of the relationship for given ERD.</i>) 5. The instructor shall formulate appropriate laboratory exercises which can result into good understanding of : <ol style="list-style-type: none"> a. Data definition commands: CREATE, ALTER, DROP and TRUNCATE. b. Data manipulation commands: INSERT, UPDATE and SELECT. c. Clauses in SQL : FROM, GROUP BY, HAVING, ORDER BY, IN d. Nested queries e. Aggregate functions: AVG, COUNT, FIRST, LAST, MIN, MAX, SUM f. Project, Union, Difference, Intersection, Cartesian Product and Natural Join. 6. To create forms and reports in MS Access: student should be able to create a tiny self sufficient application in MS Access. 7. To understand need of normalization: the instructor shall present students with a spreadsheet and show anomalies in it (e.g. data redundancy, multiple updates etc.) and show how relational database can be used to remove these anomalies. 8. To normalize given database (or spreadsheet) up to given normal form. 9. To understand the differences between various normal forms. 10. To understand design of a real life database used by an organization. 	

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I	Q.1 (A) Viva – Voce	20	70
	Q.1 (B) Practical	50	