Course Type	Course Code	Name of Course	L	T	P	Credit
DP5	CSC303	**Database Management Systems Lab**	0	0	2	2

Course Objective

Students will have the ability to:

- Keep abreast of current developments to continue their own professional development.
- To engage themselves in lifelong learning of Database management systems theories and technologies this enables them to pursue higher studies.
- To interact professionally with colleagues or clients located abroad and the ability to overcome challenges that arise from geographic distance, cultural differences, and multiple languages in the context of computing.
- Develop team spirit, effective work habits, and professional attitude in written and oral forms, towards the development of database applications

Learning Outcomes

Students will be able to demonstrate their skills In drawing the ER, EER, and UML Diagrams. In analyzing the business requirements and producing a viable model for the implementation of the database.
In converting the entity-relationship diagrams into relational tables. To develop appropriate Databases to a given problem that integrates ethical, social, legal, and economic concerns.

Unit No.	Topics to be Covered	Lecture Hours	Learning Outcome
1	Introduction SQL-SQL*Plus	2	Students will learn about SQL
2	E-R Diagrams, Tables	2	Requirement gathering in terms of ER
3	My SQL Installation, DDL and DML Commands with Examples	2	Students will learn basic commands
4	Key Constraints,, Aggregate functions	2	Students will learn how to apply integrity constraints
5	Joins, Views, Indexing	2	Students will learn to perform indexing and joins
6	Pl/SQL	2	Students will learn about Pl/SQL
7	Triggers	2	Applying triggers
8	Cursors, Subprograms-procedure PL/ SQL	2	Programming with cursors and sub-programs
9	Functions of PL/ SQL	2	
10	Mini Project and extra programs	2	

Text Books:

1. Korth, Slberchatz,Sudarshan, :"Database SystemConcepts", 6th Edition, McGraw –Hill

Reference Books:

1. Elmasri and Navathe, "Fundamentals of Database Systems", 5thEdition, PEARSON Education.
2. Peter Rob and Carlos Coronel, "Database Systems Design, Implementation and Management", Thomson Learning, 5th Edition.
3. Raghu Ramkrishnan and Johannes Gehrke, "Database Management Systems", TMH.