



Course Title: Structured Query Language

Course Code:

Number of Credits: 2

Level: 2

Learning Objective/Outcome (s): The objectives of this course is Build database using Data Definition Language Statements Perform basic CRUD operations using Data Manipulation Language statements like Insert, Update and Delete

Pre-learning:

knowledge of database.

Pedagogy:

Class Room
Case study

Course Outline:

Sr.No.	Topic	Hours
1	E-R Modeling and Table Design Identify Entities and their Relationships Drawing E-R Diagram Conversion of E.R. Diagrams into Tables	2
2	SQL Overview, data types, operators, DDL commands : create ,alter ,drop, truncate ,rename, Constraints, Index, Unique , Not NULL, Primary Key, Default Check Foreign Key	10
3	DML commands : Select , insert , update ,delete, , Queries using clauses : where, order by, group by, having, Intersect, union, distinct, between ,Nested queries. Aggregate functions: Max, Min, Avg, and Count	10
4	Introduction to Joins Cross Joins Inner Join Outer Join Self Join Co-related Sub Queries Set Operations using Unions, Intersect and Except	5
5	Implementing Views:- Introduction & Advantages of Views	03

	Creating, Altering, Dropping Views	
	Total	30

Book Recommended:

1. Learning SQL, Book by Alan Beaulieu
2. SQL The Complete Reference, 3rd Edition - McGraw-Hill Education

Suggested Assessment/ Evaluation Methods

Written Exam
 Project Work
 Assignments
 Quiz

Parallel/Similar courses the existing curriculum:

S.No.	Name of the course	Institute where it was offered
1	Introduction to SQL	San Diego state University
2	Database System	University of Hong Kong

Name of Member				
Designation				
Org. / Inst.				
Signature				

Name of the Expert:



Signature:

Date: