



**Department of Computer Science and Engineering
National Institute of Technology Tiruchirappalli**

1. Course Outline			
Course Title	Database Management and Systems Lab		
Course Code	CS LR32		
Programme & Department	B.Tech. - CSE	No. of Credits	3
Pre-requisites Course Code	CSPC33	Faculty Name	Dr. E. Sivasankar Dr. M. Brindha
E-mail	sivasankar@nitt.edu brindham@nitt.edu	Telephone No.	0431 - 2503213
Course Type	Lab course		

2. Course Overview

This course mainly explores the internals of a Database Management Systems and its interface with front end tools for building real world applications.

3. Course Objectives

- To explore the features of a Database Management Systems
- To interface a database with front end tools.
- To understand the internals of a database system

4. Course Outcomes (CO)

- Ability to use databases for building client server applications.
- Ability to comprehend the internal working of a database system.
- Ability to design and develop a database using SQL and the mechanism in connecting with a Web based GUI

5. Course Outcomes (CO)	Aligned Programme Outcome (PO)							
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8
Ability to use databases for building client server applications.	S	M	M	M	S	S	B	M
Ability to comprehend the internal working of a database system.	S	S	M	M	S	S	M	M
Ability to design and develop a database using SQL and the mechanism in connecting with a Web based GUI	S	S	M	M	S	S	M	M

S = 0.6

M = 0.4

B = 0.0

6. Course Teaching and Learning Activities							
Sl. No	Title	Type		Mode of delivery			
		L	T	C & T	PP T	VL/V C	DEMO
1.	Working with Basic SQL commands. (DDL,DML,DCL)						√
2.	Inbuilt functions in RDBMS.						√
3.	Working with Nested Queries & Join Queries.						√
4.	Working with set operators & views in SQL.- Control structures						√
5.	Working with Procedures and Functions.						√
6.	Triggers						√
7.	Working with HTML forms , PHP & MySQL						√
8.	Dynamic & Embedded SQL						√
9.	Working with XML						√
10.	Database Design and implementation (Mini Project)						√

7. Course Assessment Methods				
Sl. No.	Mode of Assessment	Week/Date	Duration	Marks
1	Continuous assessment	Every week	3 hour	25
2	Cycle Test	7 th week	2 hour	25
3	Mini Project	10 th week		25
4	Semester Examination	11 th week	2 hour	25
Total				100

8. Essential Readings (Textbooks, Reference books, Websites, Journals, etc.)

Text Books:

1. Abraham Silberschatz, Henry F. Korth, and S. Sudharshan, "Database System Concepts", 6th edition, Tata McGraw Hill, 2011
2. Ramez Elmasri and Shamkant B. Navathe, "Fundamentals of Database Systems", 4th edition, Pearson/Addison wesley, 2007

COURSE EXIT SURVEY

1. Students' feedback through class committee meetings

2. Feedback questionnaire collected from students through MIS before end semester examination

COURSE POLICY

1. All the students are expected to attend all the contact hours. Anyhow students who fall short of 75% attendance to the contact hours are not eligible to appear for the final written examination of 50% weightage.
2. For valid reasons, students who fall on 50-75% attendance range have to attend a compensatory examination and have to attain more than 50%. Those who have secured less than 50% are not eligible to appear for the final written examination of 50% weightage.
3. In case of any student found guilty indulging in any mal practice, he/she will be awarded no marks in that particular assessment. If found using mobile phones or any other gadgets for any mal-practice during the final written examination, the answer sheet of the student will not be evaluated and will be awarded ZERO marks in the final written examination.

ADDITIONAL COURSE INFORMATION

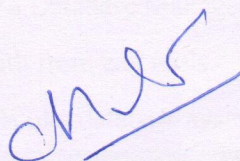
1. The Course Coordinator is available for consultation during the time intimated to the students then and there.

For Senate's Consideration

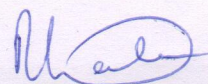

(E. SIVASANKAR)

(M. BRINDHA)

Course Faculty



Class Committee Chairperson



(R. LEELA VELUSAMY)

HoD