



NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE PLAN – PART I			
Name of the Programme and Specialization	B. TECH., (COMPUTER SCIENCE & ENGINEERING)		
Course Title	DATABASE MANAGEMENT SYSTEMS LABORATORY		
Course Code	CSLR51	No. of Credits	2
Co-requisites Course Code	CSPC52	Pre-requisites	-
Session	July 2021	Section (if, applicable)	V Semester – B Section
Name of Faculty	Dr. M. SRIDEVI	Department	CSE
Email	msridevi@nitt.edu	Telephone No.	0431 - 2503216
Name of Course Coordinator(s)	-		
E-mail	-	Telephone No.	-
Course Type	Laboratory Course		
COURSE OBJECTIVES			
<ul style="list-style-type: none"> 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 To identify Structure Query Language statements used in creation and manipulation of Database To identify the methodology of conceptual modeling through Entity Relationship model 			
COURSE OUTCOMES (CO)			
<ul style="list-style-type: none"> Identify Structure Query Language statements used in creation and manipulation of Database. 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 Analyze and design a real database application. 			
Course Outcome (CO)		Aligned Programme Outcome	
Identify Structure Query Language statements used in creation and manipulation of Database.		3,5,11	
Ability to use databases for building client server applications.		1,3,5,6,10,12	
Ability to comprehend the internal working of a database system.		2,3,6,7,11	
Ability to design and develop a database using SQL and the mechanism in connecting with a Web based GUI.		1,3,5,6,7,8,10,12	
Analyze and design a real database application.		1,2,3,4,6,8,10,12	



COURSE PLAN – PART II

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.

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week	Topic	Mode of Assessment
1.	I Week	Working with Basic SQL commands.(DDL, DML, DCL)	Demo
2.	II Week	Inbuilt functions in RDBMS.	Demo
3.	III Week	Working with Nested Queries & Join Queries.	Demo
4.	IV Week	Working with set operators & views in SQL- Control structures	Demo
5.	V Week	Working with Procedures and Functions.	Demo
6.	VI Week	Working with Triggers	Demo
7.	VII Week	ER Model to Relational Model- Normalization	Demo
8.	VIII Week	Working with Python & MySQL, Embedded SQL	Demo
9.	IX Week	Working with XML	Demo
10.	X Week	Working with NoSQL	Demo
11.	XI Week	Database Design and implementation - Working with HTML forms, PHP & MySQL Application	Demo
12.	XII Week	Database Design and implementation - Working with HTML forms, PHP & NoSQL Application	Demo

Text Book

1. Silberschatz, Henry F. Korth and S. Sudharshan, “Database System Concepts”, 7th Edition, Tata McGraw Hill, 2019.
2. J. Date, A. Kannan and S. Swamynathan, “An Introduction to Database Systems”, 8th Edition, Pearson Education, 2006.
3. S.K.Singh, “Database Systems Concepts, Design and Applications”, First Edition, Pearson Education, 2006.



COURSE ASSESSMENT METHODOLOGY FOR LAB

S. No.	Mode of Assessment	Week/Date	Duration	% Weightage
1.	Continuous Assessment	1 st to 10 th weeks	3 hours	50%
2.	Mini Project (Time Bound)	11 th & 12 th weeks	3 hours	20%
3.	Final Assessment (Technical Quiz/Demo)	As per Academic schedule	3 hours	30%
4.	Compensation Assessment (For Mini Project)	After completion of Mini project	3 hours	20%

COURSE EXIT SURVEY

- Feedbacks are collected before final examination through MIS or any other standard format followed by the institute
- Students may give their feedback at any time to the course faculty which will be duly addressed.
- The students may also give their feedback during Class Committee Meeting.

COURSE POLICY

MODE OF CORRESPONDENCE

- Mode of Correspondence through Email & MS Teams.

COMPENSATION ASSESSMENT POLICY

- If a student is unable to attend mini project lab classes due to genuine reasons, student is permitted to attend the compensation assessment only for mini project.

ATTENDANCE POLICY

- As per the regulations.


ACADEMIC DISHONESTY & PLAGIARISM

- As per the regulations.

ADDITIONAL INFORMATION

- The students can get their doubts clarified at any time with the faculty member.

FOR APPROVAL

 10.08.2021 Dr. M. SRIDEVI Course Faculty	 Dr. C. MALA CC-Chairperson	 Dr. RAJESWARI SRIDHAR HOD
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