



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 and Engineering		
Course Title	Database Management and Systems Lab		
Course Code	CS LR32	No. of Credits	3
Course Code of Pre-requisite subject(s)	CSPC33		
Session	July 2019	Section (if, applicable)	A & B-V Semester
Name of Faculty	Dr. E. Sivasankar Dr. M. Brindha	Department	CSE
Email	sivasankar@nitt.edu brindham@nitt.edu	Telephone No.	0431- 2503213 0431- 2503218
Name of Course Coordinator(s) (if, applicable)	NA		
E-mail		Telephone No.	
Course Type	Lab Course		
Syllabus (approved in Senate)			
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. 			
COURSE OUTCOMES (CO)			
<ul style="list-style-type: none"> ➤ 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 			
Course Outcome (CO)	Aligned programme Outcome		
Ability to use databases for building client server applications.	1, 5,6		
Ability to comprehend the internal working of a database system.	1,2,5,6		



NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

Ability to design and develop a database using SQL and the mechanism in connecting with a Web based GUI	1,2,5,6		
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	Working with HTML forms , PHP & MySQL	Demo
8.	VIII Week	Dynamic & Embedded SQL	Demo
9.	IX Week	Working with XML	Demo
10.	X Week	Working with NoSQL	Demo
11.	XI Week	Database Design and implementation (Mini Project)	Demo
12.	XII Week	Database Design and implementation (Mini Project)	Demo
Text Book			
<ol style="list-style-type: none"> 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 METHODS-LAB				
S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1.	Continuous assessment	Every week	3 hours	50%
2.	Mini Project	Last two weeks	3 hours	20%
3.	Final Assessment	3 rd week of November	3 hours	30%
4.	Compensation assessment	Every week	3 hours	20% (only for 2 continuous assessments)
TOTAL				100%
*mandatory				
COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)				
1. Students' feedback through class committee meetings. 2. Feedback questionnaire from students – from MIS at the end of the semester.				
COURSE POLICY (preferred mode of correspondence with students, compensation assessment policy to be specified)				
<u>MODE OF CORRESPONDENCE (email/ phone etc)</u> Mode of Correspondence through Phone.				
<u>COMPENSATION ASSESSMENT POLICY</u> In case of emergency, the student should submit compensatory assignments on submission of appropriate documents as proof. Compensatory assessments would be framed according to the time frame available and the assessment task missed by the students.				
<u>ATTENDANCE POLICY</u> (A uniform attendance policy as specified below shall be followed)				
<ul style="list-style-type: none">➤ At least 75% attendance in each course is mandatory.➤ A maximum of 10% shall be allowed under On Duty (OD) category.➤ Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.				
<u>ACADEMIC DISHONESTY & PLAGIARISM</u>				
<ul style="list-style-type: none">➤ Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.➤ Zero mark to be awarded for the offenders. For copying from another student, both students get the same				



NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

penalty of zero mark.

- The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.
- The above policy against academic dishonesty shall be applicable for all the programmers.

ADDITIONAL INFORMATION

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

FOR APPROVAL

Course Faculty

(Signature)
11/8/19

CC-Chairperson

(Signature)
11/8/19

HOD

(Signature)
11/8/19