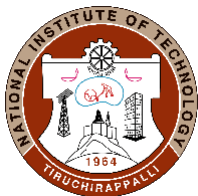




COURSE PLAN – PART I			
Name of the programme and specialization	M. Tech		
Course Title	DBMS Laboratory		
Course Code	CS608	No. of Credits	2
Course Code of Pre-requisite subject(s)		Semester	III
Session	JAN/2023	Section (if, applicable)	
Name of Faculty	Dr. Chandramani Chaudhary	Department	CSE
Official Email	chandramani@nitt.edu	Telephone No.	NIL
Name of Course Coordinator(s) (if, applicable)	NIL		
Official E-mail	NIL	Telephone No.	NIL
Course Type (please tick appropriately)	Elective course		
Syllabus (approved in BoS)			
<ol style="list-style-type: none"> 1. Working with Basic SQL 2. Working with Intermediate SQL. 3. Advanced SQL using procedures, functions and Triggers. 4. Database Design and Normalization techniques. 5. Working with XML 6. Accessing Databases from Programs using JDBC 7. Working with PHP and MySQL 8. Indexing and Query Processing 9. Query Evaluation Plans 10. Working with classification algorithms using Python / R programming 11. Working with clustering techniques using Python / R programming 12. Database Design and implementation (Mini Project) <p>Text Books</p> <ol style="list-style-type: none"> 1. Silberschatz, Henry F. Korth, and S. Sudharshan, “Database System Concepts”, 6th Ed., McGraw Hill, 2010. 2. RamezElmasri and Shamkant B. Navathe, “Fundamentals of Database Systems”, Seventh Edition, Pearson Education / Addison Wesley, 2016 			
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 database design and normalization techniques
- To understand the internals of a database system
- To implement supervised and unsupervised learning techniques on relational data using Python/R programming language

MAPPING OF COs with POs

Course Outcomes	Programme Outcomes (PO) (Enter Numbers only)
1. Comprehend the internal working of a database system	
2. Design database and apply normalization techniques	
3. Design and develop a database using SQL and the mechanism in connecting with a Web based GUI	
4. Apply Machine learning algorithms to the real time datasets using Python/R programming languages	

COURSE PLAN – PART II

COURSE OVERVIEW

In this course, students will learn about the design and implementation of web pages with Python, JavaScript, and SQL using frameworks like Django.

COURSE TEACHING AND LEARNING ACTIVITIES

(Add more rows)

S.No.	Week/Contact Hours	Topic	Mode of Delivery
2	23/0/2023 to 27/0/2023 3 hours	Working with Basic SQL	
3	30/01/2023 to 3/02/2023 3 hours	Working with Intermediate SQL.	
4	6/02/2023 to 10/02/2023 3 hours	Advanced SQL using procedures, functions and Triggers.	
5	13/02/2023 to 17/02/2023 3 hours	Database Design and Normalization techniques.	
6	20/02/2023 to 24/02/2023 3 hour	Lab Exam-1	
8	27/02/2023 to 3/03/2023 3 hours	Working with XML	



9	6/03/2023 to 10/03/2023 3 hours	Accessing Databases from Programs using JDBC	
10	13/03/2023 to 17/03/2023 3 hours	Working with PHP and MySQL	
12	20/03/2023 to 24/0/2023 3 hour	Lab Exam -2	
13	27/03/2023 to 31/03/2023 3 hours	Indexing and Query Processing	
14	3/04/2023 to 6/04/2023 2 hours	Query Evaluation Plans	
15	10/04/2023 to 13/04/2023 3 hours	Working with classification and clustering algorithms using Python / R programming	
16	17/04/2023 to 21/04/2023 3 hours	Database Design and implementation	

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Continous Assessment	Every lab session	3 hour	20
2	Lab exam -1	21/03/2023 to 24/0/2023	3 hour	30
3	Report	13/02/2023 to 15/04/2023	3 hours	20
4	Final Assessment *	As per academic schedule	3 hours	30

***mandatory; refer to guidelines on page 4**

COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)

1. Students' feedback through PAC meetings
2. Feedbacks are collected before final examination through MIS or any other standard format followed by the institute
3. Students, through their Class Representatives, may give their feedback at any time to the course faculty which will be duly addressed.



COURSE POLICY (including compensation assessment to be specified)

MODE OF CORRESPONDENCE (email/ phone etc)

Email and Phone

COMPENSATION ASSESSMENT POLICY

1. One compensation assessment will be given after completion of Cycle Test 1 and 2 for the students those who are absent for any assessment due to genuine reason.
2. Compensatory assessments would cover the syllabus of Cycle tests 1 & 2
3. The prior permission and required documents must be submitted for absence signed by HoD/CSE.

ATTENDANCE POLICY (A uniform attendance policy as specified below shall be followed)

- 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.

ACADEMIC DISHONESTY & PLAGIARISM

- 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 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 programmes.

ADDITIONAL INFORMATION, IF ANY

1. The Course Coordinator is available for consultation during the time intimated to the students
2. Relative grading adhering to the instructions from the office of the dean (Academic) will be adopted for the course.

FOR APPROVAL



NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

Course Faculty	CC- Chairperson	HOD
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Guidelines

- a) The number of assessments for any theory course shall range from 4 to 6.
- b) Every theory course shall have a final assessment on the entire syllabus with at least 30% weightage.
- c) One compensation assessment for absentees in assessments (other than final assessment) is mandatory. Only genuine cases of absence shall be considered.
- d) The passing minimum shall be as per the regulations.

B.Tech. Admitted in				P.G.
2018	2017	2016	2015	
35% or (Class average/2) whichever is greater.		(Peak/3) or (Class Average/2) whichever is lower		40%

- e) Attendance policy and the policy on academic dishonesty & plagiarism by students are uniform for all the courses.
- f) Absolute grading policy shall be incorporated if the number of students per course is less than 10.
- g) Necessary care shall be taken to ensure that the course plan is reasonable and is objective.