

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

	COURSE PLAN			
Name of the programme and specialization	M.Tech Computer Science			
Course Title	DBMS Laboratory			
Course Code	CS608	No. of Credits 2		
Course Code of Pre- requisite subject(s)	CS604 Advanced Databases			
Session January 2020		Section (if, applicable)		
Name of Faculty	Faculty Dr. A. Santhanavijayan		CSE	
Official Email vijayana@nitt.edu		Telephone No.	0431-2503217	
Name of Course Coordinator(s) (if, applicable)	Dr. A. Santhanavijayan			
Official E-mail	vijayana@nitt.edu	Telephone No.	0431-2503217	
Course Type (please tick appropriately)	Laboratory Course			

Syllabus (approved in Senate)

Do refer the link:

https://www.nitt.edu/home/academics/curriculum/M.Tech-CS-CS-2019.pdf

COURSE OBJECTIVES

- 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

		Programme Outcomes (PO)
1.	Comprehend the internal working of a database system	1,2,3,5,6,10,11
2.	Design database and apply normalization techniques	1,2,3,5,6,11
3.	Design and develop a database using SQL and the mechanism	1,2,3,5,6,7,10,11



in connecting with a Web based GUI	processing soci
the mal time datasets	1,2,3,5,6,7,10,11

COURSE PLAN - PART II

This course emphasizes the concepts of file organization, Query Optimization, and Transaction management for database applications.

	E TEACHING AND LEAD	Topic	Mode of Delivery	
S.No.	Week/Contact Hours	1917 1 1917 1 1919 1 1 1 1 1 1 1 1 1 1 1		
1	Week 1 / 3 Hours	Working with Basic SQL	Hands-On practice	
2	Week 2 / 3 Hours	Working with Intermediate SQL	Hands-On practice	
3	Week 3 / 3 Hours	Advanced SQL using procedures, functions and Triggers	Hands-On practice	
4	Week 4 / 3 Hours	Database Design and Normalization techniques	Hands-On practice	
5	Week 5 / 3 Hours	Working with XML and Accessing Databases from Programs using JDBC	Hands-On practice	
6	Week 6 / 3 Hours	Working with PHP and MySQL	Hands-On practice	
7	Week 7 / 3 Hours	Indexing and Query Processing and Query Evaluation Plans	Hands-On practice	
8	Week 8 / 3 Hours	Working with classification algorithms using Python / R programming	Hands-On practice	
9	Week 9 / 3 Hours	Working with clustering technique using Python / R programming	Hands-On practice	



10	Week 9 / 3 Hours	imp	Database Design an elementation (Mini Pr		Hands-On practice
COURS	E ASSESSMENT MET	HODS			
S.No.	Mode of Assessm	ent	Week/Date	Duration	% Weightage
1	Continuous Assessment		Regular Lab Session	3 Hours	50
2	Model Exam		2 nd Week of April	3 Hours	20
3	End Semester Exa	am	4 th Week of April	3 Hours	30

REFERENCES

- 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 EXIT SURVEY

Feedbacks are collected before final examination through MIS or any other standard format followed by the institute.

COURSE POLICY (including compensation assessment to be specified)

MODE OF CORRESPONDENCE (email/ phone etc)

E-mail

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

The students can clarify their doubts at any time during working hours from the faculty with prior appointment.

FOR APPROVAL

Course Faculty

Dr. A. Santhanavijayan

CC- Chairperson

Dr. R. Leela Velusamy

Dr. Rajeswari Sridhar



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				
2018	2017	2016	2015	
35% or (Class whichever is g	7770	(Peak/3) or (C	lass Average/2)	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.