

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI DEPARTMENT OF COMPUTER APPLICATIONS

	COURSE PL	AN – PART I	
Name of the programme and specialization	M.Sc. Computer Science	ee	
Course Title	DBMS and Data mining	g Lab	
Course Code	CAS 754	No. of Credits	2
Course Code of Pre- requisite subject(s)	-		
Session	Jan 2022	Section	-
Name of Faculty	Dr. S. Sangeetha	Department	Computer Applications
Official Email	sangeetha@nitt.edu	Telephone No.	0431-2503743
Name of Class committee Chairperson	Dr.B.Balaji		
Official E-mail	balaji@nitt.edu	Telephone No.	
Course Type (please tick appropriately)	☑ Core course ☐ Elective course		
Syllabus (approved in Bo	oS)		
Exercises to implem	ct and query databases. ent Data mining algorith	nms using ENCOG and	I WEKA
COURSE OBJECTIVE			
To work with E7To implement m	l query databases. IL tools ining algorithms. techniques on realistic	data	
MAPPING OF COs with	POs		
	Course Outcomes		Programme Outcomes (PO)
Work with ETL tools			1,5
Demonstrate the classifi	ication, clustering and et	c. in large data sets.	1,2,3,4,5
Ability to add mining al	gorithms as a componer	nt to the exiting tools.	1,2,3,4,5
Ability to apply mining	techniques for realistic	data.	1,2,3,4,5

COURSE PLAN - PART II

COURSE OVERVIEW

DBMS and Data mining lab helps the students to learn creation and manipulation of database. It enables the students to access the data by writing appropriate SQL queries. Data mining part of the course helps the student to learn preprocessing and mining useful information in the data using datmining tools.

COURSE TEACHING AND LEARNING ACTIVITIES

Week	Topic		
1	Problems based on Data Definition Language		
2	Problems based on Data Manipulation		
3	Problems based on simple SQL queries		
4	Problems based on Complex SQL queries		
5	ETL and Data Preprocessing		
6	Implementation of Association Mining algorithms		
7	Implementation of Classification Algorithms		
8	Implementation of Clustering Algorithms		
9	Project work		
10	Project work		
11	Project work		
12	Project work		

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1.	Code Evaluation-	Week 5	2 hours	20
2.	Code Evaluation-	Week 9	2 hours	20
3.	Project	At the end of the course	4 weeks	30
CPA	Compensation Assessment	At the end of the course	1 Hr	20
4	Final Assessment	At the end of the course	3 Hrs	30

Essential Reading

http://vlabs.iitb.ac.in/vlabs-dev/labs/dblab/index.php

https://pandas.pydata.org/docs/user_guide/index.html

https://scikit-learn.org/stable/user_guide.html

COURSE EXIT SURVEY

The students through the class representative may give their feedback at any time to the course faculty which will be duly addressed.

COURSE POLICY (including compensation assessment to be specified)

ATTENDANCE POLICY

As per Institute policy

ACADEMIC DISHONESTY & PLAGIARISM

> 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.
- > The students are expected to come out with their original solution for problems given as assignment, and tests/examinations.

ADDITIONAL	INFORMATION,	IF	ANY
------------	--------------	----	-----

FOR APPROVAL

Course Faculty

CC- Chairperson

HOD

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 whichever is		(Peak/3) or (Cl whichever is lov	lass Average/2) wer	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.