NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

DEPARTMENT OF COMPUTER APPLICATIONS

COURSE PLAN – PART I			
Name of the programme and specialization	M.SC. Computer Science		
Course Title	DBMS and Data mining lab		
Course Code	CAS754	No. of Credits	2
Course Code of Pre-requisite subject(s)	CAS767,CAS764		
Session	January 2019	Section (if, applicable)	-
Name of Faculty	Dr. S. Sangeetha	Department	Computer Applications
Official Email	sangeetha@nitt.edu	Telephone No.	0431-2503743
Name of Course Coordinator(s) (if, applicable)	Dr. Michael Arock		
Official E-mail	michael@nitt.edu	Telephone No.	0431-2503736
Course Type	☑ Laboratory course		

Syllabus

Exercises to construct and query databases

Exercises to implement data mining Algorithms using Data mining tools

COURSE OBJECTIVES

- To learn and work with ETL tools
- To learn and work with Data mining algorithms
- To apply mining techniques on realistic data

MAPPING OF COs with POs

Course Outcomes	Programme Outcomes (PO)
1. Work with ETL tools.	1, 5
2. Demonstrate classification and clustering in large dataset.	1,2,3,4,5
3. Ability to add mining algorithms as a component to the existing tools	1,2,3,4,5
4. Ability to apply mining techniques for realistic data	1,2,3,4, 5

COURSE PLAN – PART II

COURSE OVERVIEW

The DBMS and Data mining lab helps the students to learn the creation and manipulation of database to create data sources. It helps the students to access data by writing appropriate queries. It helps the students to mine the data to find useful information using data mining tools.

COURSE ACTIVITIES

S.No	WEEK	Topic
1	1	Problems to work on Data Definition and Manipulation in RDBMS
2	2	Querying the database
3	3	Querying the database
4	4	Extract Transform Load (ETL)
5	5	Finding Data Associations
6	6	Finding Data Associations
7	7	Data Classification
8	8	Data Classification
9	9	Data Clustering
10	10	Data Clustering

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Code Evaluvation 1	Week 4	1 Hr	25
2	Code Evaluvation 2	Week 8	1 Hr	25
3	Model Lab	Week 11	1hr 30 min	20
4	Final Assessment	At the end of the course	3 Hrs	30

ESSENTIAL READINGS :

1. https://www.bonobo-project.org/
2. https://scikit-learn.org/stable/

COURSE POLICY

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

FOR APPROVAL

Course Faculty _____ **CC- Chairperson** _____ 28/1/19 **HOD** _____