NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI
DEPARTMENT OF COMPUTER APPLICATIONS

COURSE PLAN – PART I			
Name of the programme and specialization	Master of Computer applications		
Course Title	Data mining lab		
Course Code	CA707	No. of Credits	2
Course Code of Pre-requisite subject(s)	CA721		
Session	JUNE 2019	Section	A & B
Name of Faculty	Dr. S. Sangeetha	Department	Computer Applications
Official Email	sangeetha@nitt.edu	Telephone No.	0431-2503743
Name of Course Coordinator(s)	Dr.B.Janet		
Official E-mail	janet@nitt.edu	Telephone No.	0431-2504741
Course Type (please tick appropriately)	☑ Core course	☐ Elective course	

Syllabus (approved in BoS)

Syllabus:

- Exercises to understand the data sets and Data preprocessing using ETL tools
- Demonstrate the working of algorithms for datamining tasks such as association rule mining, classification, clustering and Regression

COURSE OBJECTIVES

- To Extract Transform and Load data
- To perform classification, clustering in large datasets

MAPPING OF COs with POs

Course Outcomes	Programme Outcomes (PO) (Enter Numbers only)
1. Work with Extract Transform and Load	1,2,3
2. Demonstrate classification and clustering in large dataset.	1,2,3,5
3. Ability to add mining algorithms to the tools	4,5
4. Ability to apply mining techniques for realistic data	1,2,3

COURSE PLAN – PART II

COURSE OVERVIEW

Data mining lab help the students to identify the data sets, understand the characteristics of the dataset, preprocess the data set and make it ready for mining. The course help them in implementing Association rule mining, Classification and clustering algorithms to mine the real time or benchmark data to get useful information out of it.

COURSE TEACHING AND LEARNING ACTIVITIES

Week	Topic
1	Introduction to Data Mining
2	Extract Transform Load (ETL)
3	Extract Transform Load (ETL)
4	Data Associations
5	Data Classification
6	Data Clustering
7	Project / Assignment based on real-time/benchmark dataset
8	Project / Assignment based on real-time/benchmark dataset
9	Project / Assignment based on real-time/benchmark dataset
10	Project / Assignment based on real-time/benchmark dataset
11	Project / Assignment based on real-time/benchmark dataset

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1.	Code Evaluation-1	3rd week	3 weeks	15
2.	Code Evaluation-2	6th week	3 weeks	15
3.	Project / Assignment	11th week	4 weeks	40
CPA	Compensation Assessment*	At the end of the course	1 Hr	15
4	Final Assessment *	At the end of the course	3 Hrs	30

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.
- The students may also give their feedback during Class Committee meeting.

COURSE POLICY (including compensation assessment to be specified)

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.

ADDITIONAL INFORMATION, IF ANY

The Course Coordinator is available for consultation office from 4 pm to 5 pm on Tuesday every week.

FOR APPROVAL

Course Faculty _____ **CC- Chairperson** _____ **HOD** _____