NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

DEPARTMENT OF COMPUTER APPLICATIONS

COURSE PLAN – PART I			
Name of the programme and specialization	**MCA**		
Course Title	**Data Mining Lab**		
Course Code	**CA707**	**No. of Credits**	**2**
Course Code of Pre-requisite subject(s)	**CA721**		
Session	**July 2020**	**Section (if, applicable)**	**A**
Name of Faculty	**Dr. U. Vignesh**	**Department**	**Computer Applications**
Official Email	**uvignesh@nitt.edu**	**Telephone No.**	**9994887741**
Name of PAC Chairman	**Dr. B. Janet**		
Official E-mail	**janet@nitt.edu**	**Telephone No.**	**0431-2504741**
Course Type (please tick appropriately**)**	✓ **Core course**		

Syllabus (approved in BoS)
Exercises to
Understand the data sets and data preprocessing using ETL tools
Demonstrate the working of algorithms for data mining tasks such association rule mining, classification, clustering and regression
COURSE OBJECTIVES
To extract transform and load data.
To perform association rule mining, classification and clustering in large data sets.
MAPPING OF COs with POs

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

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COURSE PLAN – PART II		
COURSE OVERVIEW		
The main objective of this **lab** is to impart the knowledge on how to implement classical models and algorithms in **data mining** and to characterize the kinds of patterns that can be discovered by association rule **mining**, classification and clustering.		
COURSE TEACHING AND LEARNING ACTIVITIES (Add more rows)		
S.No.	**Week/Contact Hours**	**Topic**
1	1	Introduction to Data Mining
2	2	Preprocessing – ETL Tools
3	3	Preprocessing – ETL Tools
4	4	Data Association
5	5	Data Classification
6	6	Data Clustering
7	7	Project/Assignment based on Real time/Benchmark Datasets
8	8	Project/Assignment based on Real time/Benchmark Datasets
9	9	Project/Assignment based on Real time/Benchmark Datasets
10	10	Project/Assignment based on Real time/Benchmark Datasets

11	11	Project/Assignment based on Real time/Benchmark Datasets

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 Course	1 Hrs	15
4	Final Assessment *	At the end of Course	3 Hrs	30

*mandatory; refer to guidelines on page 4

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

- The students through the class representative may give their feedback at any time to the course chairman which will be duly addressed.
- The students may also give their feedback during class committee meeting.
- Course Outcome Survey' form will be distributed on the last working day to all the Students and the feedback on various rubrics will be analyzed.
- The COs will be computed after arriving at the final marks.

COURSE POLICY (including compensation assessment to be specified**)**

One Compensation assessment will be conducted for students who were absent for Code Evaluation activity due to genuine reasons.

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 get their doubts clarified at any time with their faculty member.

FOR APPROVAL

(Dr. U. Vignesh)
Course Faculty

(Dr. B. Janet)
CC- Chairperson

(Dr. P. J. A. Alphonse)
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 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.