Department of Computer Science and Engineering
National Institute of Technology Tiruchirappalli

1. Course Outline			
Course Title	DBMS AND DATA MINING LAB		
Course Code	CAS 754		
Department	CA	**No. of Credits**	2
Pre-requisites Course Code	-	**Faculty Name**	Dr.S.DOMNIC
Course Co-ordinator			
E-mail	domnic@nitt.edu	**Telephone No.**	0431-2503745
Course Type	Core Laboratory Course		

2. Course Overview
DBMS and Data Mining Laboratory is to make students well versed in query language and data mining algorithms. Students will be given exercises to create tables for different problems in the database. Also, exercises will be given to perform operations on the created tables as well as mining the data using tool.

3. Course Objectives
- To make students to understand DBMS concepts using SQL   - To explore data mining tool for analyzing data   - To provide training to solve real time problems by applying DMBS concepts.

4. Course Outcomes (CO)
- Ability to create database for any real time problem.   - Ability to retrieve data from tables of the database using SQL.   - Ability to analyze data using data mining tools .

Course Outcome (CO)	Aligned Programme Outcome (PO)											
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12
Ability to create database for any real time problem.	M	B	B	B	M	B	B	S	B	B	B	M
Ability to retrieve data from tables of the database using SQL.	M	B	B	B	M	B	B	S	B	B	B	M
Ability to analyze data using data mining tools	M	B	B	B	M	B	B	S	B	B	B	M

S = 0.6   M = 0.4   B = 0.0

6. Course Teaching and Learning Activities

Week	Topics covered
1.	Execution of DDL commands
2.	Execution of DML commands
3.	Querying the database tables using simple queries, nested queries and joins
4.	Execution of Pl/SQL programs :procedures
5.	Execution of Pl/SQL programs : functions
6.	Execution of Pl/SQL programs: cursors
7.	Execution of triggers
8.	Implementation of K-means algorithm
9.	Implementation of K-medoids
10.	Execution of Classification algorithms using WEKA

The assessment in this course has practical component only. The assessment in practical component has periodical evaluations, record writing, and end semester examination whose details are given in Table . The assessment in Practical will be done for a total of 100 marks.

S.No	Mode	Marks
1.	Regular lab exercises evaluation and Lab record preparation	50
2.	Internal exam	25
3.	External exam	25
	Total	100

7. Course Exit Survey (mention the ways by which the feedback about the course is assessed and indicate the attainment level)

- The students through the class rep may give their feedback at any time to the course co-ordinator 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.

8. Course Policy (including plagiarism, academic honesty, attendance, etc.)

- **Plagiarism**
  The students are expected to come out with their original algorithm design and code for problems given during the class work, home work, term project, laboratory exercises, and tests/examinations. If found to copy from internet/other students, zero marks will be assigned and disciplinary action will be taken.
- **Attendance**
  100% is a must. However, relaxation upto 25% will be given for leave on emergency requirements (medical, death, etc.) and representing institute events.
- **Academic Honesty**
  i) Possession of any electronic device, if any, found during the test or exam, the student will be debarred for 3 years from appearing for the exam and this will be printed in the Grade statement/Transcript.
  ii) Tampering of MIS records, if any, found, then the results of the student will be with held and the student will not be allowed to appear for the Placement interviews conducted by the Office of Training & Placement, besides (i).

9. Additional Course Information

- The students can get their doubts clarified at any time with their faculty member with prior appointment.

For Senate's Consideration

Course Faculty

(Dr.S.Domnic)
Staff in Charge

(Ms.Bakiya)
Class Committee Chairperson

(Dr.S.Balasundaram)
HoD(CA)