Program Name	B. Tech. (Computer Engineering)	Semester – VII
Course Code	R4CO4001P	
Course Title	Data Mining and Data Warehousing Lab	
Prerequisite	Statistics, Data Structures and Algorithms	

COURSE OUTCOMES: Students will be able to		
1.	Investigate different data mining and data warehouse tasks and evaluate the algorithms with respect to their accuracy.	
2.	Compare the results of a data mining exercise and analyze the results.	
3.	Design a data mining solution to a practical problem.	

LIST	OF EXPERIMENTS:	Hrs	CO
1.	To perform a multidimensional data model using SQL queries. e.g., snowflake, star and fact constellation schema.	2	1
2.	To perform various OLAP operations such as: slice, dice, roll up, drill up etc.	2	1
3.	To perform data cleaning and preparing for operations	2	1,2
4. 5.	Study of Decision Trees and other classification Algorithms. To perform association rule mining	4 4	2,3 2, 3
6.	Study of predictive algorithms.	2	2, 3
7.	Study of clustering and its different techniques.	4	2, 3
8.	To perform text mining on the given data warehouse and perform correlation analysis between for the given data sets	2	2, 3

TEXTBOOKS

- Pang-Ning Tan, Michael Steinbach and Vipin Kumar, "Introduction to Data Mining", Pearson Education, ISBN: 978-93-3257-140-2
- Jiawei Han, Micheline Kamber, and Jian Pei, "Data Mining Concepts and Techniques", 3rd Edition, Morgan Kaufmann, ISBN: 978-93-80931-91-3

RECOMMENDED READING

- 1 M. Berry and G. Linoff, "Mastering Data Mining", John Wiley and Sons, 2nd Edition.
- 2 I.H. Witten and E. Frantk, "Data Mining: Practical Machine Learning Tools and Techniques", Morgan Kaufmann, 4th Edition.