	Data Mining
Teaching Scheme Lectures: 1 hrs/Week Tutorials: 1 hr/Week Credits: 2	Examination Scheme Class Test -6 Marks Teachers Assessment – 3 Marks Attendance – 6 Marks End Semester Exam – 35 marks
Prerequisite: - CSH301 RDBMS	End Selficster Dam 33 marks
Course Objectives:	
<ul> <li>mining process.</li> <li>3. Differentiate OnLine Transaction Proces</li> <li>4. Learn Multidimensional schemas suitable</li> <li>5. To understand how to identify associate find them.</li> </ul>	ove the quality of data and efficiency and the ease of the
Detailed Syllabus	
UNIT 1- Data Mining:	formation Technology, Knowledge Discovery Process ques involved.
JNIT 2- Data Preprocessing: Needs, Pre-processing data, Data Cleaning, discretization, Concept of hierarchy generation	Data integration and transformation, data reduction,
JNIT 3- Data Warehouse:  Definition, Differences between Operational OLAP, 3 Tier Architecture of Data Warehouse	Database Systems and Data Warehouses, OLTP vs., Concept of ETL.
J <b>NIT 4- Data Warehouse Modeling:</b> Data Cube- A Multidimensional Data Model, S Multidimensional Data Models, OLAP operation	Stars, Snowflakes, and Fact Constellations: Schemas foon
Data Cube- A Multidimensional Data Model, S Multidimensional Data Models, OLAP operation	ociation Rule Mining, Classification: Decision Tre
Data Cube- A Multidimensional Data Model, S Multidimensional Data Models, OLAP operation of the Milt State of the Milt S	ociation Rule Mining, Classification: Decision Tre
Data Cube- A Multidimensional Data Model, S Multidimensional Data Models, OLAP operation of the Mining Techniques: Introduction to Association Rule and Association, K-nearest neighbor, Clustering: Cluster Grant Company of the Mining Trends:	ciation Rule Mining, Classification: Decision Trester Analysis.  es of Data Mining, Data Mining Applications, We camber, Harcourt India, 2006.  Margaret H Dunham, Pearson, 2002.

## Course Outcomes:

After completing the course, students will be able to

1. Understand the concept of data mining and its applications.

2. Understand pre-processing steps to improve the quality of data to ease data mining process.

3. Understand OLTP and OLAP as well as 3 tier architecture of data warehouse.

4. Understand various Multidimensional schemas and to apply OLAP operations.

5. Establish associations among objects by applying various algorithms.

6. Perform cluster analysis and understand the methodologies of data mining.