DO1 100 D		
BCA 408: Da	ta Mining and Warehousing	
Teaching Scheme	Examination Scheme	
Lectures: 4 hrs/Week	Class Test - 20Marks	
Tutorials: 2 hrs/Week	Teachers Assessment - 10Marks	
	Attendance - 20 Marks	
Credits: 6	End Semester Even 100 marks	
Prerequisite: - BCA 201 Engineering N	fathematics and BCA 302 Database Manag	gement
Systems		
Course Objectives:		
 To have an idea about data mining and its To understand multidimensional behavior To apply data pre-processing concepts to data mining methods to information system 	s various applications. r of data and data warehouse architectures. clean, integrate and transform different datase ms and generate results for decision making s	ts, apply ystems.
 To analyze various data mining techniques To demonstrate data mining techniques to approach. 	s to solve problems. solve problems in other disciplines using mat	hematical
). To create and design intelligent program u	sing data mining techniques.	
Detailed Syllabus		
Juit-1 Definition, Data Mining as the Evolution of I KDP), Classification of Mining systems, Tech	information Technology, Knowledge Discoveniques involved.	ery Proce
nit-2 eeds, Pre-processing data, Data Cleaning, scretization, Concept of hierarchy generation.	Data integration and transformation, data	reduction
nit-3 finition, Differences between Operational	Database Systems and Data Warehouses	
AP, 3 Her Architecture of Data Warehouse,	Concept of ETL.	OLTP vs
it-4 ia Cube- A Multidimensional Data Model, St ltidimensional Data Models, OLAP operation	ars, Snowflakes, and Fact Constellations: Sc	OLTP vs
it-4 a Cube- A Multidimensional Data Model, St ltidimensional Data Models, OLAP operation it-5 oduction to Association Rule and Association Bayesian Classification algorithm, K-nearest	ars, Snowflakes, and Fact Constellations: Sc Rule Mining, Classification: Decision Tree neighbor, Clustering: Cluster Analysis.	OLTP vs hemas for Induction
it-4 ta Cube- A Multidimensional Data Model, St ltidimensional Data Models, OLAP operation it-5 oduction to Association Rule and Association Bayesian Classification algorithm, K-nearest t-6 ing Complex Data Types, Methodologies of D	Concept of ETL. ars, Snowflakes, and Fact Constellations: Sc a. Rule Mining, Classification: Decision Tree neighbor, Clustering: Cluster Analysis. Data Mining, Data Mining Applications, Web	OLTP vs hemas for Induction Mining.
 AP, 5 Ther Architecture of Data Warehouse, it-4 a Cube- A Multidimensional Data Model, St ltidimensional Data Models, OLAP operation t-5 oduction to Association Rule and Association Bayesian Classification algorithm, K-nearest i-6 ng Complex Data Types, Methodologies of E t and Reference Books Data Mining -Concepts and Techniques, Han, Kat Data Mining Introductory and advanced topics, M 	Concept of ETL. ars, Snowflakes, and Fact Constellations: Sc a. Rule Mining, Classification: Decision Tree neighbor, Clustering: Cluster Analysis. Data Mining, Data Mining Applications, Web mber, Harcourt India, 2006. largaret H Dunham, Pearson, 2002.	OLTP vs hemas fo Induction Mining.

Course Outcomes:

After completing the course, students will be able to:

7. Understand the functionality of the various data mining and data warehousing component.

- 8. Appreciate the strengths and limitations of various data mining and data warehousing models.
- 9. Explain the analyzing techniques of various data.
- 10. Describe different methodologies used in data mining and data ware housing.
- 11. Compare different approaches of data ware housing and data mining with various technologies.

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