CS2032 DATA WAREHOUSING AND DATA MINING L T P C 3 0 0 3

COURSE OBJECTIVES

The student should be made to:

- To familiarize with data warehousing and preprocessing concepts.
- To explore business intelligence with OLAP tools.
- To understand basic data mining concepts.
- To familiarize with various tools and techniques used for Knowledge Discovery from data.
- To identify suitable algorithms for knowledge discovery applications.

COURSE OUTCOMES

After completing this course, the student will be able to:

- Store and prepare voluminous data for online processing. (K2)
- Handle high dimensional data for pattern discovery (K2).
- Understand data mining functionalities for knowledge discovery (K2).
- Apply various classification, clustering and data association rule minning algorithms (K3).
- Apply various data mining tools (K3).

DESCRIPTION OF ASSESSMENT TOOLS

Exams: 3 continuous assessments during the semester

Assignment: Solving data mining applications

COURSE ASSESSMENT MATRX

Assessment Tool	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Unit Test 1			Y	Y	
Unit Test 2				Y	Y
Unit Test 3	Y	Y			
Assignment				Y	Y

COURSE OUTCOMES MAPPED TO PROGRAMME OUTCOMES

		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
		K3	K4	K5	K4	-	K3	-	-	-	-	-	-
CO1	K2	2	2	1	2	0	3	0	0	0	3	0	0
CO2	K2	2	2	1	2	0	2	0	0	0	1	0	0
CO3	K2	2	2	1	2	0	0	0	0	0	1	0	0
CO4	K3	3	2	2	2	0	3	0	0	0	1	0	0
CO5	K3	3	2	2	2	0	3	0	0	0	3	0	0

Justification of CO- PO mapping

CO	Description	Knowledge level	Remarks
CO1	Store and prepare voluminous data for online processing	K2	a. Remember the components and architecture of data warehouse. b. Understand the techniques for data preprocessing and storing.
CO2	Handle high dimensional data for pattern discovery	K2	a. Remember multidimensional data model b. Understand the operations of OLAP tools.
CO3	Understand data mining functionalities for knowledge discovery	K2	a. Remember the data mining functionalities. b. Understand the interstigness patterns.
CO4	Apply various classification, clustering and data association rule minning algorithms	K3	a. Remember the fundamentals of various algorithms for data mining. b. Understand and apply suitable algorithm for the given data.
CO5	Apply various data mining tools	K3	a. Remember the various tools for data mining. b. Understand and apply the tools for solving real world applications

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