

SREE VIDYANIKETHAN ENGINEERING COLLEGE

# **(AUTONOMOUS)** SREE SAINATH NAGAR, TIRUPATI – 517 102

# **Department of Computer Science and Engineering**

### Lesson Plan cum Diary 2015-16

Name of the Subject : DATA WAREHOUSING AND DATA MINING(14MT20503)

Name of the faculty Members **Class & Semester** 

: Mr. P.Venkateswarlu Reddy : M. Tech. (CNIS) - I Semester

S. No.	Торіс	No. of periods required	Date(s) covered	No. of periods used	Book(s) followed	Topics for self study
	Unit-I: INTRODUCTION	TO DATA V	WAREHO	USE AND	DATA MIN	ING
1.	Data Warehouse	1			T1	
2.	A Multidimensional Data	1			T1	
	Model					
3.	Data Warehouse	1			T1	
	Architecture					
4.	Data Warehouse	1			T1	Classification
	Implementation					of Data
5.	From Data Warehouse to	1			T1	Mining
	Data Mining.					Systems
6.	Data Mining – Kinds of Data	1			T1	
7.	Data Mining Functionalities	2			T1	
8.	Primitives – Major Issues in	2			T1	
	Data Mining.					
	Total no of periods required:	10		•	riods used:	
	<b>Unit-II: DATA PREPROCE</b>	SSING, MI	NING FRE	QUENT P	ATTERNS	, AND
		ASSOCI	ATIONS	-		
9.	Descriptive Data	1			T1	
	Summarization					
10.	8	1			T1	
11.	Data Integration	1			T1	
	and Transformation					Discretization
12.	Data Reduction	2			T1	and concept
13.	Efficient and Scalable	3			T1	hirarchy
	Frequent Item set Mining					generation
	Methods					generation
14.	Mining various kinds of	1			T1	
	Association Rules					
15.	Constraint based association	1			T1	
	mining.					
	Total no of periods required:	10			riods used:	
	Unit-III: CLA	SSIFICATI	ON AND P	PREDICTI	ON	
16.	0 0	1			T1	
	classification and prediction					]
17.	classification by decision tree	2			T1	
	induction					
18.	Bayesian classification	2				Support

19.	Rule based classification	2			T1	Vector				
20.	classification by Back	2			T1	Machines				
	propagation									
21.	Prediction	1			T1					
22.	Accuracy and Error	1			T1					
	Measures.									
	Total no of periods required:	11	Tota							
Unit-IV: CLUSTER ANALYSIS										
23.	Types of Data in Cluster	2			T1					
	Analysis				11					
24.	A Categorization of Major	1			T1					
	Clustering Methods									
25.	Partitioning Methods	2			T1					
26.	Hierarchical Methods	2			T1	Constraint-				
27.	Density based Methods	1			T1	Based Cluster				
28.	Grid based methods	1			T1	Analysis				
29.	Model based clustering	1			T1					
	methods				11					
30.	Clustering high dimensional	1			T1					
	data				11					
31.	Outlier analysis.	2			T1					
Total no of periods required:13Total no of periods used:										
-	V: MINING STREAM, TIME	,	FEXT MIN	ING AND		IDE WEB				
32.	Mining data streams	2			T1					
33.	Mining Time Series Data	2			T1					
34.	Spatial Data Mining	2			T1	Multimedia				
35.	Text Mining	2			T1	Data Mining				
36.	Mining the World Wide	2			T1					
	Web.									
	Total no of periods required:		Total no of periods used:							
Gra	Grand total of periods required:									

#### **TEXTBOOKS:**

T1. Jiawei Han and Micheline Kamber, "Data Mining: Concepts and Techniques," Second Edition, Elsevier, 2009

#### **REFERENCE BOOKS:**

- R1. Margaret H Dunham, "*Data Mining Introductory and Advanced Topics*," Second Ed, Pearson Education, 2006
- R2. Amitesh Sinha, "Data Warehousing," Thomson Learning, 2007
- R3. Xingdong Wu, Vipin Kumar, "The Top Ten Algorithms in Data Mining," Taylor and Francis Group, 2009

## Signature of the faculty Member