	DATAWAREHO	USIN	G AND	DATA	MINING			
VI Semester: IT   CS				<b>X</b> 7 <b>I</b>	<b>a 1</b> <sup>4</sup>			•
Course Code	Category		ours / V	1	Credits		Maximum Marks	
AIT006	Core Tutorial Classes: 15	L 3	<u>T</u>	P	C 4	CIA	SEE	Tota
Contact Classes: 45		3   1   -   4   Practical Classes: Nil			30         70         100           Total Classes:         60			
OBJECTIVES:		Tractical Classes. Thi			i otal Classes: oo			
	nable the students to:							
I. Identifying neces	sity of Data Mining and	Data '	Wareho	using fo	or the societ	y.		
	process of data analysis,	, ident	ifying t	he probl	lems, and c	hoosing	the releva	nt
models and algor								
	electing the appropriate					ig practic	al proble	ms.
¥ •	o design various algorith				•			
	terest in research and des		t new D	ata M1n	ing techniq	ues and	concepts.	
	G OUTCOMES (CLO	s):						
The students should	ouse principles and find	tha di	fforona	a botwo	on rolation	al Datab	acos and d	lata
warehouse.	ouse principles and find	une un		S Detwe		ai Databa	ases and c	iata
	warehouse architecture ar	nd its d	compon	ents				
3. Learn Data warel			- ompon	•				
	erent OLAP Architecture	es.						
5. Understand Data	Mining concepts and know	owled	ge disco	overy pr	ocess.			
	preprocessing techniques		0					
7. Apply task relate	d attribute selection and	transf	ormatio	n techni	ques.			
	ssociation rule mining p							
	cept of Apriori algorithm	for fi	nding fi	requent	items and g	generatin	g associat	ion
rules. Association								
10. Illustrate the	concept of FP-gro	owth a	Igorithi	n and di	ifferent rep	resentatio	ons of fre	quent
item sets.		1						
	lassification problem and on tree construction and			otion				
	lassification problem and				ion			
14. Illustrate the	-				lassificatio	n algoritl	nms	
15. Understand the C		oue	k propu	Sution e	lussificatio	ii uigoi iii		
	ypes of data and categori	izatioı	ı of ma	ior clust	tering meth	ods.		
17. Explore on			or clust		0			
	ent hierarchical based me				ity based n	nethods,	grid based	l and
Model based met	hods.							
19. Understand the o	-							
20. Understand minin	ng complex data types.							
		SYLL	ABUS					
UNIT-I DAT	A WAREHOUSING						Classes	:09
Introduction to Data w	arehouse, Differences be	etweer	n OLAP	and OI	LTP, A Mu	lti dimen	sional dat	a
	ke and Fact constellation					•		
-	idimensional Data Mode							
	e, Data warehouse Back-							
	a warehouse Implementat	tion, I	Jata Wa	rehouse	e models- E	nterprise		
UNIT-II DATA N							Classes	
Introduction, what is I	Data Mining, Definition,	Know	ledge D	iscover	y in Data (l	KDD), K	inds of da	ita

	mining functionalities, Classification of data mining systems, Data mining ta Data Preprocessing: Data cleaning, Data integration and transformation, Data	
	zation and Concept hierarchy.	
UNIT-III	ASSOCIATION RULE MINING	Classes:09
Association	Rules: Problem Definition, Frequent item set generation, The APRIORI Prin	nciple,
support and	confidence measures, association rule generation; APRIORI algorithm.	_
	Algorithms, Compact Representation of Frequent item Set-Maximal Frequer	nt item set,
<b>A</b>	ent item set.	
UNIT-IV	CLASSIFICATION AND PRIDICTION	Classes:09
Issues Rega	rding Classification and Prediction, Classification by Decision Tree Induction	on, Bayesian
	on, Classification by Back propagation, Classification Based on Concepts fro	
	Rule Mining, Other Classification Methods, Prediction, Classifier Accuracy	
UNIT-V	<b>CLUSTERING</b> ta, categorization of major clustering methods, K-means partitioning method	Classes:09
Data Object	nplex Types of Data: Multi dimensional Analysis and Descriptive Mining of s, Mining Spatial Databases, Mining Multimedia Databases, Mining Time-Seata, Mining Text Databases, Mining the World Wide Web.	
Publisl	Han, Michelin Kamber, "Data Mining-Concepts and techniques", Morgan K hers, Elsevier, 2nd Edition, 2006	
	erson, Stephen J.Smith, "Data warehousing Data mining and OLAP", Tata Mition, 2007	AcGraw- Hill,
Ziiu EC		
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References	Pujari, "Data Mining Techniques", 3rd Edition, Universities Press, 2005	
References1.Arum K2.PualrajI	Pujari, "Data Mining Techniques", 3rd Edition, Universities Press, 2005 Ponnaiah, Wiley, "Data Warehousing Fundamentals", Student Edition, 2004.	
References1. Arum K2. PualrajI3. Ralph K	Pujari, "Data Mining Techniques", 3rd Edition, Universities Press, 2005 Ponnaiah, Wiley, "Data Warehousing Fundamentals", Student Edition, 2004. Timball, Wiley, "The Data warehouse Life Cycle Toolkit", Student Edition, 2	
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References1.Arum K2.Pualrajl3.Ralph KWeb Referencehttps://www	Pujari, "Data Mining Techniques", 3rd Edition, Universities Press, 2005 Ponnaiah, Wiley, "Data Warehousing Fundamentals", Student Edition, 2004. Eimball, Wiley, "The Data warehouse Life Cycle Toolkit", Student Edition, 2 ences: v.sanfoundry.com/best-reference-books-data-mining-data-warehousing/	2006.
References 1. Arum K 2. Pualrajl 3. Ralph K Web References https://www E-Text Boo	Pujari, "Data Mining Techniques", 3rd Edition, Universities Press, 2005 Ponnaiah, Wiley, "Data Warehousing Fundamentals", Student Edition, 2004. Eimball, Wiley, "The Data warehouse Life Cycle Toolkit", Student Edition, 2 ences: v.sanfoundry.com/best-reference-books-data-mining-data-warehousing/	2006.