20IT2601A - INTRODUCTION TO DATA WARE HOUSING AND MINING

Offe	ring B	ranche	s 1	IT											
Course Category:			: 1	Open Elective -II							Credits:			3	
Course Type:				Theory							Lecture-Tutorial- Practical:		3-0-0		
Prerequisites:				Data Base Management Systems							Continuous Evaluation:		30		
											Semester End Evaluation:			70	
											Fotal Ma	arks:	10	00	
Cours	e Outc	omes													
Upon s	uccess	ful coi	mpleti	on of t	he cou	rse, th	e stude	ent wil	l be ab	le to:					
CO1	Unde	rstanc	the b	asic pi	rincipl	es, pro	cess ar	id tech	iniques	of data	mining.			K	
CO2	Use p	re-pro	cessin	g tech	niques	on dif	ferent	datase	ts.					K	
CO3	Appl data.	Apply techniques and algorithms for Mining frequent patterns, classifying and clusteridata.						istering	K						
CO4	Analyze the data for mining frequent patterns, associations, classification and outlier detection in a real scenario.													K	
	Con	tribut	ion of	Cour	se Out	comes	towa	rds ac	hieven	nent of]	Progran	n Outco	mes		
0.01	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO	
<u>CO1</u>	3			-									3		
CO2	3			3									3		
<u>CO3</u>	3	2		3									3	3	
<u>CO4</u>	3	3		2									3	3	
Avg.	3	3		3			2.34	11				2 11	3	3	
UNIT-	1 of	troduct pattern e targe	tion: W n can b ted?, N	Vhat is be mine Major 1	s data i ed? Wi Issues	mining hich te in Data	? What when the second	t kind gies anng.	s of da	ta can b ? Which	e mined kinds o	? What f applic	kinds ations	CO1	
UNIT	2 de Da Re	etting t scription ta Pro- cductio	o Kno ons of eproce on, Dat	w You data, l essing: a Trar	ir Data Measu An Isform	i: Data ring Da overv ation a	object ata Sin view, nd Dis	s and a nilarity Data cretiza	Attribu y and E Cleani ation.	te Type Dissimila Ing, Da	s, Basic arity. ata integ	statistic gration,	al Data	CO1 CO2	
	M	ining f	requei	nt patte	erns, A	ssocia	tions a	nd Co	rrelatio	ns- Bas	ic Conce	epts, Fre	quent	COI	
UNIT	3 ite	mset 1	Mining	g meth	nods-	Apriori	i Algo	rithm,	Gener	ating a	ssociatio	on rules	from	CO3	
	frequent itemsets, improving the efficiency of Apriori.														
UNIT	-4 Classification: Basic Concepts – Basic concepts, Decision Tree Induction, Rule C Based Classification, Model evaluation and Selection.							CO1 CO3 CO4							
UNIT	NIT-5 Cluster Analysis: Basic Concepts and Methods- Cluster Analysis, partitioning methods, Hierarchical Methods and evaluation of Clustering						CO1 CO3 CO4								
					L	earn	ing l	Reso	urce	s					
Text	Books	1. Tł	Jiawe hird Ec	i Han a lition.	and Mi Elsevi	ichelin er. 201	e Kam 2.	ber, "I	Data M	ining C	oncepts	and Tec	hniques	3''	
Reference Books		1. Fin 2. Pe	1. Michael Steinbach, Vipin Kumar, Pang-Ning Tan, Introduction to data mining, First Edition, Addison Wesley, 2006 2. Margaret H. Dunham, Data Mining Introductory and Advanced Topics, 1/e, Pearson Publishers, 2006												
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