Course C	ode PC	A20G02T	Course Name	DATA WAREHOU	ISE AND DATA	MINING	Cou Cate		(G		(Gene	ric E	lect	ive (Cou	rse				L 3		P 0	C 3
Pre-requi	isite Cours	es Nil		Co-requisite Courses	Nil				ı	Progr	essive	Cour	ses	Nil	i i										
Course Off	Course Offering Department Computer Applications Data Book / Codes/Standards Nil																								
Course Lea (CLR):	Course Learning Rationale (CLR): The purpose of learning this course is to, Learning Program Learning Outcomes (PLO)									.0)			20												
CLR-1:	CLR-1: Gain knowledge about Data mining and Knowledge Discovery Process								2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
				Data mining algorithm																					
CLK-3.	Understan	d and Appl	y Association rule y various Classific	ation algorithms				m)	(%	Attainment (%)				рu						on		ant			
				ster and Outlier Analys	2.27.2.2.2.2			(Bloom)) S		nary Knowledge						g		ing	Competence		Engagement			10000
) g	ien	me	NG SME	_		oni			'n	king	eari	du	ing	gag		S	ing		
CLR-6:	Understan	d the partit	ioning and backup	technologies				Thinking	rofic	ttain	호	ķi	- <u>S</u>	al Reasoning	Skills		Reasoning	Thinking	ected Learning	රි	Reasoning			Skills	g Learning
Course Lea	arning Out	comes	To facilitate acce	ss to funding for long-	term investment	needs		Level of Th	Expected Proficiency (%)	Expected A	Disciplinary	Critical Thinking	Problem Solving	Analytical F	Research S	Team Work	Scientific R	æ	Self-Directe	Multicultural	Ethical Rea	Community	ICT Skills	Leadership	Life Long L
CLO-1:	Understar	nd the Data	mining concepts a	and KDD process					80		L	Н		Ĥ	-	Ή	Н	L	Н	L		М	Н		Н
IULU-Z :	Understan scenario	d and Appl	y Association rule	mining and classificat	ion techniques ir	real world		3	85	75	М	Н	Н	L	L	Н	М	L	L	L	-	L	Н	L	Н
			ut Cluster & Outlier					3	75		М	L	Н	L	М	Н	Н	М	Μ	L	L	Н	L	L	Н
				Data mining concepts		ains		_	85		М		Н	М	М	Н	Н	М	М	L	L	М	-	М	Н
				d different types of So	chema concepts			3		70	Н	100	Н	М	М	Н	Н	L	L	L	М	М	-	Н	L
CLO-6:	Understan	d the partit	ioning and backup	technologies				3	85	80	L	Н	Н	Н	-	М	Н	Н	Н	L	Н	L	М	Н	Н
7.0.300,000	Duration 9 9							9																	
S1	SLO1 Why Data mining? What is Data mining? What is Visualization techniques warehouse archives				re		Data warehouse partitioning and needs Introduction of data marts																		
S2	2 SLO1 Kinds of data, information and knowledge Measures Likelihood & Process architecture distance Process architecture manager		architec	ture:	Loa	d	Horizontal partitioning Estimation of design cost																		
62	SLO1 Data mining tools and Neural Networks		ks, Decision	Data warehouse manag Query manager						partitioning son of partitioning			М	Meta data											
S3			tree technique	tree technique Quiz exam				Explain partitioning using ppt																	

		Explain data, information and Knowledge through real time examples using ppt	Constructing Decision tree for real time applications			Explanation of Data mart and meta data by role play
S4	SLO1	Knowledge Discovery in Database	ID3 algorithm	Data warehouse Objects	Hardware partitioning	Backup
S5	SLO1	Data mining architecture and Data mining operations	Genetic algorithm	Fact table, Dimension table	Software partitioning	Types of Backup
S6	SLO1	Issues in Data mining	Crossover, mutation techniques	Data warehouse users	Types of Software partitioning	Hot and Cold backup, Sure west online backup
S7	SLO1	Demonstration on data mining algorithms	Demonstration of Neural Networks Decision tree and genetic algorithms	Compare and explain OLTP and OLAP	Demonstration of partitioning and its types	Backup the data warehouse
S8	SLO1	Anatomy of data mining	Clustering, K-Means algorithm	Data warehouse schema, star schema	Design fact tables	Disaster recovery procedure and Various recovery models
S9	SLO1	Learning and types	Association Rule Mining and Apriori algorithm	Snowflake schema and Fact constellation schema	Design summary table	Testing and types

Learning Resources	 Prabhu S, Venkatesan N (2006), Data Mining & Wareho – New Age International – First Edition, New Delhi Sam Anahory, Dennis Murray (2004), Data warehousi real world – Pearson Education, New Delhi 	2 Alex Rerson, Stephen J. Smith (2004), Data Warehousing, Data mining & OLAP –
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Learning As	Learning Assessment											
Level	Bloom's Level	Continuous Learning Assessment (50% weightage)										
	of Thinking	CLA - 1 (10%)		CLA - 2 (10%)		CLA –	3 (20%)	CLA - 4 (1	10%) #		3. 241.4 1.3	
	8	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	
Level 1	Remember	40%		30%		30%	_	30%		30%		
LCVCII	Understand	4070	(57)	30 70	- 72	30 70		30 /0		30 70	9.7%	
Level 2	Apply	40%		40%		40%	_	40%		40%		
LOVOIZ	Analyze	4070		40 /0		4070		4070		40 70		
Level 3	Evaluate	20%	-	30%		30%	2	30%	_	30%		
Lever 5	Create	20 /0	(1 0 0)	30 70	355	30 /0	5	30 /0		30 70	(3.70)	
	Total	100) %	100) %	100 %		100 %	%	100 %		

[#] CLA - 4 can be from any combination of these: Assignments, Seminars, Tech Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

Course Designers										
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