20IT2701A - FUNDAMENTALS OF DATA SCIENCE

Offe	ring	Bran	ches	IT											
Course Category:				Open Elective -III							Credits:			3	
Course Type:				Theory						Le	Lecture-Tutorial- Practical:			3-0-0	
Prerequisites:				DATA MINING							Continuous Evaluation:			30	
											Semester End Evaluation:			70	
				Total Marks:									1	00	
Cours															
-	_		complet						l be ab	le to:				K2	
CO1			rstand the basic concepts of Data Science												
CO2		pply different modelling methods									K3 K2				
CO3			cuss the concepts of web mining												
CO4	CO4 Analyze the different modelling methods Contribution of Course Outcomes towards achievement of Program Outcomes														
	PO				PO5	PO6	PO7	ras ac PO8	PO9	PO10	Prograi PO11	PO12	PSO1	PSO2	
CO1	3		12 PO3	PO4	PO5	PO	PO/	PUs	PO9	POIU	POII	PO12	3	PSO2	
CO2	3		3										3		
CO3	3		3										3		
CO4	3												3		
Avg.	3	_											3		
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						Cou	rse	Con	tent						
UNIT-1		The D	Introduction to data science: The Data Science process: Roles in a data science project, stages of a data science project Managing Data: Cleaning data, Sampling for modeling and validation												
UNIT-2 Modelling Methods: Choosing evaluating models: Problems to machine learning tasks, Evaluating models,													CO1 CO2 CO4		
Linear and Logistic Regression: Using Linear Regression: Understanding Linear regression ,building a linear regression model, Making Predictions Using Logistic Regression: Understanding Logistic Regression, building a Logistic regression model, Making Predictions													CO1 CO2 CO4		
UNIT	-4	Unsupervised methods:												CO1 CO2 CO4	
UNIT	UNIT-5 Web Mining: Web Content mining, Web structure mining, Web usage mining, Tex mining, Unstructured Text, Episode rule discovery for text, Text Clustering												, Text	CO1 CO3	
									urce						
Text Books			 Nina Zumel, John Mount: Practical Data Science with R, Dreamtech, 201 Data Mining Techniques 3rd Edition Arun K Pujari 2013 												
E-Resources & other digital material		r	http://nptel.ac.in												