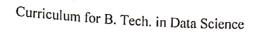


Course Title: Unstructured Data Analytics (Elective-1)										
Semester	IV	Teaching Scheme				1) Evaluation				
Term Even Th Tu P			Pr	Crodit	Theory			Practical		
Course Category	EL				Credits	TAE	CAE	ESE	INT	EXT
Course Code	UDSL211	3			· 3	10	15	50		
Teaching Mode  Duration of ESE	Offline  23 Hrs	$\sum_{\omega_{i}^{3}}$		·	Total	. ,	75 ,:	. 75	7	

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Course Objectives		Discuss various issues and challenges in unstructured data management To prepare students with fundamental knowledge and skills in unstructured data management. Introduce the best practices, underlying principles, and emerging technologies in storing, retrieving, and analyzing unstructured data.
,		Upon successful completion of this course, student will be able to:
Course		CO1: Understand the concept of unstructured Analytics
Outcomes ;		CO2: Collect and integrate unstructured data from multiple sources
	9	CO3: Experiment the techniques to manage and store unstructured data
	(	CO4: Analyze the concept of Big data & Hadoop.
	(	CO5: Visualize unstructured data techniques and explore the platforms

## Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

Course	PO	PO	PO	PO	PSO	PSO								
Outcome	1	2	3	4	5	6	7	8	9	10	11	12	. 1	2
CO1	'1	1							,		7.	1	1	1
CO2		2		1								2	2	1
CO3	2	2	3	2	3							, 2	+ 3	2
CO4	2	3	2	2							1	2_	3	2
CO5	1	2	3	2	3				, ?		1	1	3	2





**Course Contents:** 

U	nit	
	Unstructured Data Analytics:	Hours
I	Introduction, History of Data Analytics, The Next Frontier of Analytics Innovation: Introduction, What Is the Analytics Age? Unstructured Data Analytics: Structured verses unstructured data analysis, what is UDA-Uses, working. The Framework to Put UDA to Work, Text Parsing Example.	8
11	No SQL Databases:	
-	Introduction to Non-Relational database and its storage, conversion of structured to unstructured databases Introduction to Mongo DB, Mongo DB Concepts-Data model, Create and Drop Database, Create and Drop Collection, Data types, Insert, Query, Update, Delete document, Indexing, Replication, Deployment.	8
III	Big Data: Architecture, 'Understanding different' Hadoop modes, Understanding Hadoop features, The HDFS and Map Reduce architecture. Case studies of Social Media's contents like Facebook Twitter should be included with applications, Analysis and impact	8
IV	Graphs databases Graphical Displays-Time Series Plots, Plotting Smoothed Data, numerical Description of Time Series Data-Stationary Time Series, Auto covariance and Autocorrelation Functions, Transformations.	8
V	Unstructured data techniques and platforms: Tools for Unstructured Data Analytics: Introduction, need, uses Monkey, learn, Amazon AWS, Microsoft Azure, IBM Cloud. Next-generation unstructured data analysis tools. The Future of Analytics.	8

	)		
	Tand	1.	Unstructured Data Analytics, Jean Paul Isson
	Text Books	2.	Introduction To Time Series Analysis And Forecasting, Douglas C.Montgomery
		3.	Peter Membrey, David How, Eelco Plugge, Mongodb Basics, Apress, 2014
	Reference	1.	Big Data Analytics With R And Hadoop, Vignesh Prajapati, PACKT
•	Books	2:	Al Sweigart, Automate The Boring Stuff With Python: Practical Programming For Total Beginners, No Starch Press, 2015
	Ì	3.	Ryan Mitchell, Web Scraping With Python: Collecting More Data From The Modern Web 2nd Edition, O'Reilly Media, Inc. 2018
	On-line	1. F	Https://Www.Json.Org/Json-En.Html
l I	L Material		Https://Www.Mongodb.Com/Basics
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