

Swarnandhra College of Engineering & Technology

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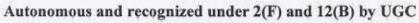
Recognized by AICTE, permanently affiliated to JNTUK Kakinada Accredited by NAAC with 'A' Grade (2nd Cycle)

Seetharamapurm, Narsapur - 530280 (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY TEACHING PLAN

Course Code	10000	ourse Title	Semester	Branch	Contact Periods /	Veek	Academic Year	Date of commencemen
20IT7E05	100000000	DATA LYTICS	VII	IT	6		2024-25	05-06-2024
COURSE	OUTCOM	1ES			,		,	-
1	List out t	he basic	concepts of Bi	Data and	Big Data Analytics	(K1)		
2	THE PARTY OF THE P	one opening	S architecture (100 - 100				
3	Develop	the Map	Reduce applica	ation (K3)				
4	Identify t	the variou	ıs Hadoop Eco	system tec	hnologies (K3)	-		
5			TO THE PERSON NAMED IN COLUMN	JEDILPHIN JOSED JHOUSES	for classification, cl	ustering	and Text	Analysis (K2
UNIT	Out Comes / Bloom's Level	Topics No.		Topic Activi	s/	Text Book/ Ref	Contact Hour	Delivery Method
			Unit-1: Intro	duction t	o Big Data		1	
		1.1	Types of Digital Data			T2	1	Chalk & Board Power point
		1.2	Characteristics of Data			T2	111	
		1.3	Evolution of Big Data			T2	2	
1	CO-1	1.4	Definition of Big Data – Challenges with Big Data			T2	1	
		1.5	3Vs of Big Data			T2	1	
		1.6	Non Definitional traits of Big Data			T2	2	
		1.7	Business Inte	lligence v	s. Big Data	T2	2	presentations
		1.8	Data war environment	ehouse – Coexiste	and Hadoop ence	T2	1	Assignment
		1.9			ics – Data Science Big Data – CAP	T1,T2	2	Test
Content beyor	nd syllabus	1.9	Principles of	Big Data		R1	1	
						Total	14	
			Unit-2: Had System	oop Distr	ibuted File		*	
П	CO-2	2.1	Introduction t	o Hadoop		T1,T2	1 1	
		2.2	Frame work,		dvantages.	T1,T2	2 '	Chalk
11		2.3	HDFS concer	ots		T1	1	&

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		2.4	HDFS architecture	T1,T2	1	Board
		2.5	hdfs commands	T1,T2	1	
		2.6	Hadoop file system interfaces	T1,T2	1	Power point
		2.7	Data flow	T1,T2	1 '	presentation
		2.8	Data Ingest with Flume and Scoop	T2,R2	1 "	- Assignment - Test
		2.9	Hadoop archives.	T2,R2	1	1030
Content bey	ond syllabus	2.10	Examples of XML files.	R2	1 1	
				Total	11	-
			Unit-3: Map Reduce			
		3.1	Understanding Hadoop API for MapReduce Framework	T1,T2	1	Chalk &
		3.2	MapReduce features	T1,T2	1	Board
Ш	CO-3	3.3	Techniques to Optimize MapReduce Jobs	T1,T2	2	Power point
		3.4	Mapper – Reducer	T1,T2	1	presentations
		3.5	Combiner – Partitioner	T1,T2	2 '	
		3.6	Searching - Sorting	T1,T2	1 1	Assignment
		3.7	Compression	T1,T2	1 '	Test
		3.8	I/O formats	T1,T2	1	
		3.9	Uses of MapReduce	T1,T2	1 '	
		3.10	Ingestion layer in big data stack	T1,T2	1	
Content bey	ond syllabus	3.11	MapReduce Architecture	R1	1 '	
	70.			Total	13	
			Unit-4: Hadoop Ecosystem			
		4.1	Serialization: AVRO	T1,T2	1 1	
		4.2	Co-ordination: Zookeeper	T1,T2	11	
		4.3	Databases: HBase Concepts	T1,T2	1 1	
***		4.4	Clients, Example, HBase Versus RDBMS	T1,T2	1	Chalk
IV	CO-4	4.5	Hive-architecture, data types, file formats	T1,T2	1	& Board
		4.6	HQLScripting language	T1,T2	1	Power point
		4.7	Scripting language: Pig-features, anatomy	T1,T2	2	presentations
		4.8	pig on Hadoop	T1,T2	2	Assignment
***		4.9	pig latin over view, data types	T1,T2	1	Test
1100	11	4.10	running pig, execution modes of pig	T1,T2	1	
		4.11	Streaming: Flink, Storm	T1,T2	1	
Content bey	ond syllabus	4.12	Principles of Analytical Theory	T2	1 *	
				Total	14	
V	CO-5		Unit-5: Advanced Analytics		100	



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		5.1	Clustering	k-means, k-mode algorithm	T1,T2, R3	2	Chalk &
	-	5.2	The second second second	n Rules: Apriori Algorithm, n of Candidate Rules,	T2,R3	2	Board Power point presentations
	70	J.2	The second second	ons of Association Rules tion: Decision Trees, Naïve	T2,R3	2	Assignment Test
		5.3	Bayes	es Analysis: Overview of Time	T1,T2,	2	
		5.4	THE RESERVE AND ADDRESS OF THE PARTY OF THE	ALTONO A RELIVING	A TO COMPANY	2	1
		5.5	Text Ana	lysis: Regular expresenting Text	T1,T2	- U	1
			Term Fre	equency—inverse	T1,T2	1	1
		5.6	77	our (Thill JP)	T1, R1	1	1,
horie	d syllabus	5.7	Hadoop	Ecosystem Components	Total		- Iv
ontent beyo	u symas ar	-		Cumulative Propo	sed Periods	64	
S.No.	Seema	Acharya	a, Subhasim	EDITION, PUBLISHER, YEAR i Chellappan, "Big Data and An	h Edition, 20	015.	
1	Seema	Acharya	a, Subhasim	Chestar O'Pailly At	h Edition, 20	015.	
S.No. 1 2	Seema Tom W	Acharya /hite, "F	a, Subhashir Iadoop: The 'yagi,Data S	Definitive Guide", O'Reilly, 4t cience and Data Analytics: Opp	h Edition, 20	015.	
S.No. 1 2	Seema Tom W Amit F Edition	Acharya /hite, "F (umar T n, CRC	Hadoop: The Yagi, Data S Press, 2021.	Definitive Guide", O'Reilly, 4t cience and Data Analytics: Oppo	h Edition, 20 ortunities an	015. d Challe	enges, 1 st
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