

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - AI & ML

Lesson Plan & Work-done Diary for AY:2026-27, ODD Semester

Course with Code :Big Data Analytics[BCS714D]				Faculty:Mrs. Vanitha G Naik			Semester & Section:VII	
Class No.	Date planned(DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction(DD/MM/YYYY)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1								
1		Introduction to the course: Classification of data, Characteristics,	PPT Chalk & Talk	1				
2		Evolution and definition of Big data	PPT Chalk & Talk	2				
3		What is Big data, Why Big data	PPT Chalk & Talk	3				
4		Traditional Business Intelligence Vs Big Data	PPT Chalk & Talk	4				
5		Typical data warehouse and Hadoop environment	PPT Chalk & Talk	5				
6		Big Data Analytics: What is Big data Analytics, Classification of Analytics	PPT Chalk & Talk	6				
7		Importance of Big Data Analytics, Technologies used in Big data Environments	PPT Chalk & Talk	7				
8		Few Top Analytical Tools, NoSQL, Hadoop.	PPT Chalk & Talk	8				



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MODULE-2								
9		Introducing hadoop: Why hadoop	PPT Chalk & Talk	9				
10		Why not RDBMS, RDBMS Vs Hadoop	PPT Chalk & Talk	10				
11		History of Hadoop, Hadoop overview	PPT Chalk & Talk	11				
12		Use case of Hadoop, HDFS (Hadoop Distributed File System)	PPT Chalk & Talk	12				
13		Processing data with Hadoop	PPT Chalk & Talk	13				
14		Managing resources and applications with Hadoop YARN(Yet Another Resource Negotiator).	PPT Chalk & Talk	14				
15		Introduction to Map Reduce Programming: Introduction, Mapper ,Reducer, Combiner	PPT Chalk & Talk	15				
16		Partitioner, Searching, Sorting, Compression.	PPT Chalk & Talk	16				



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MODULE-3								
17		Introduction to MongoDB:What is MongoDB	PPT Chalk & Talk	17				
18		Why MongoDB	PPT Chalk & Talk	18				
19		Terms used in RDBMS and MongoDB	PPT Chalk & Talk	19				
20		Terms used in RDBMS and MongoDB	PPT Chalk & Talk	20				
21		Data Types in MongoDB	PPT Chalk & Talk	21				
22		Data Types in MongoDB	PPT Chalk & Talk	22				
23		MongoDB Query Language	PPT Chalk & Talk	23				
24		MongoDB Query Language	PPT Chalk & Talk	24				

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MODULE-5								
33		Spark and Big Data Analytics: Spark, Introduction to Data Analysis with Spark	PPT Chalk & Talk	33				
34		Text, Web Content and Link Analytics: Introduction	PPT Chalk & Talk	34				
35		Text Mining	PPT Chalk & Talk	35				
36		Web Mining	PPT Chalk & Talk	36				
37		Web Content and Web Usage Analytics	PPT Chalk & Talk	37				
38		Page Rank	PPT Chalk & Talk	38				
39		Structure of Web and Analyzing a Web Graph	PPT Chalk & Talk	39				
40		Structure of Web and Analyzing a Web Graph	PPT Chalk & Talk	40				



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	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/Quizzes/Self-study	1/5/1		
3	Tutorials/Extra classes	2		
4	Internal Assessments	3		
5	ICT based Teaching (%of usage in Curriculum)	100		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	





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