

Lesson Plan & Work-done Diary for AY: 2025-26, EVEN Semester

Course with Code: Big Data Analytics [BAD601]					Faculty: Ms. Sushmitha N		Semester & Section: VI	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	ClassNo.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1								
1.		Introduction to the course	PPT Chalk & Talk	1				
2.		Classification of data, Characteristics	PPT Chalk & Talk	2				
3.		Evolution and definition of Big data	PPT Chalk & Talk	3				
4.		What is Big data, Why Big data	PPT Chalk & Talk	4				
5.		Traditional Business Intelligence Vs Big Data	PPT Chalk & Talk	5				
6.		Typical data warehouse and Hadoop environment	PPT Chalk & Talk	6				
7.		Big Data Analytics: What is Big data Analytics, Classification of Analytics	PPT Chalk & Talk	7				
8.		Importance of Big Data Analytics, Technologies used in Big data Environments	PPT Chalk & Talk	8				
9.		Few Top Analytical Tools, NoSQL, Hadoop.	PPT Chalk & Talk	9				
10.		Revision, Quiz	PPT, Socrative app	10				

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MODULE-2								
1.		Introducing hadoop, Why hadoop	PPT Chalk & Talk	1				
2.		Why not RDBMS, RDBMS Vs Hadoop	PPT Chalk & Talk	2				
3.		History of Hadoop, Hadoop overview	PPT Chalk & Talk	2				
4.		Use case of Hadoop, HDFS (Hadoop Distributed File System),	PPT Chalk & Talk	4				
5.		Processing data with Hadoop	PPT Chalk & Talk	5				
6.		Managing resources and applications with Hadoop YARN (Yet Another Resource Negotiator).	PPT Chalk & Talk	6				
7.		Introduction, Mapper	PPT Chalk & Talk	7				
8.		Reducer, Combiner	PPT Chalk & Talk	8				
9.		Partitioner, Searching	PPT Chalk & Talk	9				
10.		Sorting, Compression.	PPT Chalk & Talk	10				

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MODULE-3								
1.		What is MongoDB	PPT Chalk & Talk	1				
2.		Why MongoDB	PPT Chalk & Talk	2				
3.		Terms used in RDBMS and MongoDB	PPT Chalk & Talk	3				
4.		Terms used in RDBMS and MongoDB	PPT Chalk & Talk	4				
5.		Data Types in MongoDB	PPT Chalk & Talk	5				
6.		Data Types in MongoDB	PPT Chalk & Talk	6				
7.		MongoDB Query Language	PPT Chalk & Talk	7				
8.		MongoDB Query Language	PPT Chalk & Talk	8				
9.		Revision	PPT	9				
10.		Quiz	Socrative app	10				

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MODULE-4								
1.		What is Hive, Hive Architecture	PPT Chalk & Talk	1				
2.		Hive data types, Hive file formats	PPT Chalk & Talk	2				
3.		Hive Query Language (HQL), RC File implementation	PPT Chalk & Talk	3				
4.		User Defined Function (UDF)	PPT Chalk & Talk	4				
5.		What is Pig, Anatomy of Pig	PPT Chalk & Talk	5				
6.		Pig on Hadoop, Pig Philosophy	PPT Chalk & Talk	6				
7.		Use case for Pig, Pig Latin Overview	PPT Chalk & Talk	7				
8.		Data types in Pig, Running Pig, Execution Modes of Pig,	PPT Chalk & Talk	8				
9.		HDFS Commands, Relational Operators, Eval Function, Complex Data Types,	PPT Chalk & Talk	9				
10.		Piggy Bank, User Defined Function, Pig Vs Hive.	PPT Chalk & Talk	10				

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MODULE-5								
1.		Spark, Introduction to Data Analysis with Spark	PPT Chalk & Talk	1				
2.		Text, Web Content and Link Analytics: Introduction	PPT Chalk & Talk	2				
3.		Text Mining	PPT Chalk & Talk	3				
4.		Web Mining	PPT Chalk & Talk	4				
5.		Web Content and Web Usage Analytics	PPT Chalk & Talk	5				
6.		Page Rank	PPT Chalk & Talk	6				
7.		Structure of Web	PPT Chalk & Talk	7				
8.		Analyzing a Web Graph.	PPT Chalk & Talk	8				
9.		Revision	PPT Chalk & Talk	9				
10.		Revision	PPT Chalk & Talk	10				

	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/ Quizzes/Self-study	3		
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:	