

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**GITAM SCHOOL OF TECHNOLOGY**

**GITAM (Deemed to be University,VISAKHAPATNAM-530045)**

<b>Program</b>	<b>M. Tech</b>	<b>Category of Course</b>	<b>PE</b>	<b>Semester</b>	<b>II</b>
<b>Branch</b>	<b>CSE/DS</b>	<b>Course Code</b>	<b>19ECS767</b>	<b>Term</b>	<b>2023-24</b>
		<b>Course Title</b>	<b>BIG DATA ANALYTICS</b>		
<b>Continuous Evaluation</b>	<b>ASSIGNMENT -I</b>	<b>Max Marks</b>	<b>6 M</b>	<b>Start Date</b>	<b>7-2-2024</b>
				<b>Cut of Date</b>	<b>14-2-2024</b>

**UNITS I, II, and III**

	<b>Answer all questions.</b>		
<b>1</b>	What is Big Data Analytics? Discuss the different types of big data technologies and their applications in different industries.	<b>CO1</b>	<b>L1</b>
<b>2</b>	Define Web Analytics. Analyze the role of web analytics in big data-driven decision-making for businesses. Discuss the different types of web analytics data and their applications in different industries.	<b>CO1</b>	<b>L2</b>
<b>3</b>	Define NoSQL. What is aggregate in NoSQL databases? Illustrate different data aggregate models in NoSQL databases with suitable examples.	<b>CO2</b>	<b>L3</b>
<b>4</b>	Analyze the concept of Map Reduce with a suitable example. Write a note on partitioning and combining in Map Reduce.	<b>CO2</b>	<b>L4</b>
<b>5</b>	Discuss best practices for handling data errors, data corruptions, and hardware failures in Hadoop clusters.	<b>CO3</b>	<b>L3</b>
<b>6</b>	Compare and contrast Hadoop streaming and Hadoop pipes as mechanisms for processing data in Hadoop. Analyze their differences in terms of data ingestion, processing, and output.	<b>CO3</b>	<b>L4</b>

Note: Please write the assignment on A4 sheets only