BHAI GURDAS INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Computer Science and Engineering

LESSON PLAN

Subject Name: - Cloud Computing Subject Code: - BTCS 612-18

Year: - Jan-May 2023 Semester: - 6th CSE

Lecture No.	Unit	Date/	Topic	Teaching	Reference
		Week		Aids	
L-1	1	10 days	Introduction to the	chalk,	Notes, text-
	_		subject and Unit-1	board-	book,
L-2			Definition of cloud,	dustor	
			characteristics of cloud	chalk,	
L-3				board-	
				dustor	
			Historical developments		
			& challenges ahead, the		
			vision of cloud computing		
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L-4					
			Driving factors towards		
			cloud		
L-5	-				
L-5					
			Comparing grid with		
			utility computing		
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L-6			Cloud computing vs Grid Computing	
L-7			Cloud Computing vs Cluster Computing and Utility Computing	
L-8			Types of workload patterns for the cloud	
L-9			IT as a service	
L-10			Applications of cloud computing	
L-11	Unit-2	8 days	Introduction to virtualization	
L-12			Virtualization techniques	
L-13			Characteristics of virtualization	

L-14		Pros and Cons of virtualization Technology	
L-15		Hypervisors, Types of hypervisors	
L-16			
		Multitenancy	
L-15		Application programming interfaces (API)	
L-16		Elasticity and scalability	
L-17		Cloud service models	
L-18		Cloud service models	
L-19	Unit-3	Infrastructure as a service	
L-20		Infrastructure as a service (laaS)	
L-21		Platform as a service (PaaS)	
L-22		Platform as a service (PaaS) architecture- details and example	
L-23		Software as a service (SaaS)	
L-24		Software as a service (SaaS) architecture-details and example	
L-25		Comparison of cloud service delivery models	
L-26		Cloud deployment models	
L-27	Unit-4	Public clouds	

L-28			
L-28		Private clouds	
L-29		Hybrid clouds	
L-30		Community clouds	
L-31		Difference Between all the Clouds	
L-32		Migration paths for cloud	
L-33		Selection criteria for cloud deployment	
L-34		Security in cloud computing	
L-35		Understanding security risks	
L-36		Privacy and security	
L-37		Principal security	
L-38	Unit-5	Internal security breaches dangers to cloud computing computing	
L-39		User account and Service hijacking	
L-40		User account and Service hijacking	
L-41		Measures to reduce cloud security breaches	
L-42		Case Study Amazon Web Services	
L-43		Case Study Microsoft Azure	
L-44		Case Study Google Web Services	

L-45		Comparison of existing Cloud platforms /Web	
		Services.	
L-46		Comparison of existing Cloud platforms /Web	
		Services.	