Department of Computer Science & Design
Lesson Plan & Work-done Diary for AY: 2025, EVEN Semester

Course with Code: Cloud Computing & Security-BIS613D		Faculty: Darshini Y	Semester & Section: VI

Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
		MODULE-1						
1.		**INTRODUCTION**	PPT	1.				
2.		**Distributed System Models and Enabling Technologies**: Scalable Computing Over the Internet,	PPT	2.				
3.		Technologies for Network Based Systems,	PPT	3.				
4.		System Models for Distributed and Cloud Computing,	PPT	4.				
5.		Software Environments for Distributed Systems and Clouds,	PPT	5.				
6.		Performance,	PPT	6.				
7.		Security and Energy Efficiency.	PPT	7.				
8.		Revision and Quiz.	PPT	8.				

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MODULE-2								
1.		**Virtual Machines and Virtualization of Clusters and Data Centers**: Introduction	PPT	1.				
2.		Implementation Levels of Virtualization,	PPT	2.				
3.		Virtualization Structure/Tools and Mechanisms,	PPT	3.				
4.		Virtualization of CPU/Memory	PPT	4.				
5.		Virtualization of CPU/Memory and I/O devices,	PPT	5.				
6.		Virtual Clusters and Resource Management,	PPT	6.				
7.		Virtualization for Data Center Automation	PPT	7.				
8.		Revision and Quiz.	PPT	8.				

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MODULE-3								
1.		**Cloud Platform Architecture over Virtualized Datacenters:** Introduction	PPT	1.				
2.		Cloud Computing and Service Models,	PPT	2.				
3.		Data Center Design and Interconnection Networks,	PPT	3.				
4.		Architectural Design of @#@10012025 Annexure-II 2 2 Compute and Storage Clouds,	PPT	4.				
5.		Public Cloud Platforms: GAE	PPT	5.				
6.		AWS and Azure,	PPT	6.				
7.		Inter-Cloud Resource Management.	PPT	7.				
8.		Revision and Quiz.	PPT	8.				

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MODULE-4									
1.		**Cloud Security**: Top concern for cloud users, Risks, Privacy Impact Assessment,	PPT	1.					
2.		Cloud Data Encryption, Security of Database Services,	PPT	2.					
3.		OS security, VM Security, Security Risks Posed by Shared Images and Management OS, XOAR,	PPT	3.					
4.		A Trusted Hypervisor, Mobile Devices and Cloud Security.	PPT	4.					
5.		**Cloud Security and Trust Management**: Cloud Security Defense Strategies,	PPT	5.					
6.		Distributed Intrusion/Anomaly Detection,	PPT	6.					
7.		Data and Software Protection Techniques, Reputation-Guided Protection of Data Centers.	PPT	7.					
8.		Revision and Quiz.	PPT	8.					

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MODULE-5								
1.		**Cloud Programming and Software Environments:** Introduction	PPT	1.				
2.		Features of Cloud and	PPT	2.				
3.		Grid Platforms,	PPT	3.				
4.		Parallel and Distributed Computing Paradigms,	PPT	4.				
5.		Programming Support for Google App Engine,	PPT	5.				
6.		Programming on Amazon AWS and Microsoft,	PPT	6.				
7.		Emerging Cloud Software Environments.	PPT	7.				
8.		Revision and Quiz.	PPT	8.				

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