Department of Computer Science Engineering – (Data Science)

Lesson Plan & Work-done Diary for AY: 2024-25, ODD Semester

Course with Code: Cloud Computing-21EC72				**Faculty:** Mr. Chandra Shekar P			**Semester & Section:** 7th A
Module-1							
Class No.	**Date planned (DD/MM)**	**Topics to be covered**	**TLP Planned**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
1		Introduction to Course Scheme and Syllabus	PPT		Introduction to Course Scheme and Syllabus	PPT	
2		Bridge course with respect to knowledge of networking			Bridge course with respect to knowledge of networking		
3		**Introduction:** Introduction, Cloud Computing at a Glance			**Introduction:** Introduction, Cloud Computing at a Glance		
4		Historical Developments, Building Cloud Computing Environments			Historical Developments, Building Cloud Computing Environments		
5		Amazon Web Services (AWS), Google App Engine, Microsoft Azure, Hadoop			Amazon Web Services (AWS), Google App Engine, Microsoft Azure, Hadoop		
6		Force.com and Salesforce.com, Manjrasoft Aneka			Force.com and Salesforce.com, Manjrasoft Aneka		

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Module-2							
Class No.	**Date planned (DD/MM)**	**Topics to be covered**	**TLP Planned**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
7		**Virtualization:** Introduction, Characteristics of Virtualized	PPT		**Virtualization:** Introduction, Characteristics of Virtualized	PPT	
8		Environments Taxonomy of Virtualization Techniques, Execution Virtualization			Environments Taxonomy of Virtualization Techniques, Execution Virtualization		
9		Other Types of Virtualizations			Other Types of Virtualizations		
10		Virtualization and Cloud Computing			Virtualization and Cloud Computing		
11		Pros and Cons of Virtualization, Technology Examples			Pros and Cons of Virtualization, Technology Examples		

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Module-3							
Class No.	**Date planned (DD/MM)**	**Topics to be covered**	**TLP Planned**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
12		Cloud Computing Architecture: Introduction, Cloud Reference Model	PPT		Cloud Computing Architecture: Introduction, Cloud Reference Model	PPT	
13		Types of Clouds			Types of Clouds		
14		Economics of the Cloud			Economics of the Cloud		
15		Open Challenges			Open Challenges		

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Module-4							
Class No.	**Date planned (DD/MM)**	**Topics to be covered**	**TLP Planned**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
16		**Cloud Security:** Risks, Top concern for cloud users	PPT		**Cloud Security:** Risks, Top concern for cloud users	PPT	
17		privacy impact assessment, trust			privacy impact assessment, trust		
18		OS security, VM Security			OS security, VM Security		
19		Security Risks posed by shared images and management OS			Security Risks posed by shared images and management OS		

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Module-5							
Class No.	**Date planned (DD/MM)**	**Topics to be covered**	**TLP Planned**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
20		**Cloud Platforms in Industry:** Amazon web services: - Compute services, Storage services	PPT		**Cloud Platforms in Industry:** Amazon web services: - Compute services, Storage services	PPT	
21		Communication services, Additional services. Google AppEngine: - Architecture and core concepts			Communication services, Additional services. Google AppEngine: - Architecture and core concepts		
22		Application life cycle, Cost model, Observations			Application life cycle, Cost model, Observations		
23		**Cloud Applications:** **Scientific applications: -** HealthCare: ECG analysis in the cloud, Biology: gene expression data analysis for cancer diagnosis			**Cloud Applications:** **Scientific applications: -** HealthCare: ECG analysis in the cloud, Biology: gene expression data analysis for cancer diagnosis		
24		Geoscience: satellite image processing. Business and consumer applications: CRM and ERP			Geoscience: satellite image processing. Business and consumer applications: CRM and ERP		
25		Social networking, media applications.			Social networking, media applications.		

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	Activity	Planned	Actual	Remarks
1	Theory Classes	25		
2	Assignments/Quizzes/Self-study	3/5/1		
3	Tutorials/ Extra classes	10		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100%		
Planning			**Execution**	
Faculty Signature:			**Faculty Signature:**	
HoD Signature:			**HoD Signature:**	