

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
LESSON PLAN

-Discipline: CSE	Semester: 6th	No. Of period available	Name of the Teaching Faculty: Somya Subhadarshini
Subject: Cloud computing	No. Of days/per week class allotted: 04 periods per week (Mon, Wed, Thurs ,Fri)		From Date 16-01-2024 To Date: -26-04-2024 No. Of Weeks: 15
WEEK	CLASS DAY		Topics to be covered
1st	17.01.2024	1	SYLLABUS DISCUSSION
	18.01.2024	1	1. Introduction To Cloud Computing 1.1. Historical development 1.2. Vision of Cloud Computing
	19.01.2024	1	1.3. Characteristics of Cloud computing 1.4. Cloud computing Reference model
2nd	22.01.2024	1	1.5. Cloud computing environment 1.6. Cloud Service requirements
	24.01.2024	1	1.7. Cloud and Dynamic Infrastructure 1.8. Cloud Adoption
	25.01.2024	1	1.9. Cloud applications Assignment-1
3rd	29.01.2024	1	2. Cloud Computing Architecture 2.1. Introduction
	31.01.2024	1	2.2. Cloud Reference Model2.3. Types of Clouds
	01.02. 2024	1	2.4. Cloud Interoperability and standards
	02.02. 2024	1	2.5. Cloud computing Interoperability use cases
4th	05.02.2024	1	2.6. Role of standards in Cloud Computing environment Assignment-2 Revision and doubt clearing
	07.02. 2024	1	Class Test-1
	08.02. 2024	1	3. Scalability and Fault Tolerance 3.1. Introduction 3.2. Scalability and Fault Tolerance
	09.02. 2024		3.3. Cloud solutions
5th	12.02. 2024	1	3.4. Cloud Ecosystem 3.5. Cloud Business process management
	15.02. 2024	1	3.6. Portability and Interoperability
	16.02. 2024	1	3.7. Cloud Service management

6th	19.02. 2024	1	3.8. Cloud Offerings 3.9. Testing under Control
	21.02. 2024	1	3.10. Cloud service Controls
	22.02. 2024	1	3.11. Virtual desktop Infrastructure Assignment-3
	23.02. 2024	1	4. Cloud Management and Virtualisation Technology 4.1. Create a virtualised Architecture
7th	26.02. 2024	1	4.2. Data Centre 4.3. Resilience
	28.02. 2024	1	4.4. Agility 4.5. Cisco Data Centre Network architecture
	29.02. 2024	1	4.6. Storage 4.7. Provisioning
	01.03. 2024	1	4.8. Asset Management 4.9. Concept of Map Reduce
8th	04.03. 2024	1	4.10. Cloud Governance 4.11. Load Balancing
	06.03. 2024	1	4.12. High Availability 4.13. Disaster Recovery
	07.03. 2024	1	5.2. Network Virtualisation 5.3. Desktop and Application Virtualisation
9th	11.03. 2024	1	5.4. Desktop as a service 5.5. Local desktop Virtualisation
	13.03. 2024	1	5.6. Virtualisation benefits
	14.03. 2024	1	5.7. Server Virtualisation 5.8. Block and File level Storage Virtualisation
	15.03. 2024		5.9. Virtual Machine Monitor
10th	18.03. 2024	1	5.10. Infrastructure Requirements 5.11. VLAN and VSAN
	20.03. 2024	1	6. Cloud Security 6.1. Cloud Security Fundamentals 6.2. Cloud security services
	21.03. 2024	1	6.3. Design Principles 6.4. Secure Cloud software requirements
	22.03. 2024	1	6.5. Policy Implementation 6.6. Cloud Computing Security Challenges
11th	27.03.2024	1	7. Cloud Computing Security Architecture 7.1. Architectural Considerations 7.2. Information Classification
	28.03. 2024	1	7.3. Virtual Private Networks 7.4. Public Key and Encryption Key management 7.5. Digital certificates

12th	03.04. 2024	1	INTERNAL ASSESSMENT
	04.04. 2024	1	INTERNAL ASSESSMENT
	05.04. 2024	1	7.6. Key management 7.7. Memory Cards
13th	08.04. 2024	1	7.8. Implementing Identity Management 7.9. Controls and Autonomic System
	10.04. 2024	1	8. Market Based Management of Clouds 8.1. Cloud Information security vendors
	12.04. 2024	1	8.2. Cloud Federation, characterization 8.3. Cloud Federation stack
14th	15.04. 2024	1	8.4. Third Party Cloud service 8.5. Case study
	18.04. 2024	1	9.Hadoop 9.1. Introduction 9.2. Data Source
	19.04. 2024	1	9.3. Data storage and Analysis
15th	22.04. 2024	1	9.4. Comparison with other system
	24.04. 2024	1	Revision & Previous year question discussion
	25.04. 2024	1	Revision & Previous year question discussion
	26.04. 2024	1	Revision & Previous year question discussion