BHADRAK ENGINEERING SCHOOL & TECHNOLOGY (BEST), ASURALI, BHADRAK

CLOUD COMPUTING (Th.-03)

CHAPTER-WISE DISTRIBUTION OF PERIODS & EXPECTED MARKS

SL.NO	Name of the Chapter	Periods as per Syllabus	Required period	Expected marks
1	Introduction To Cloud Computing	05	05	15
2	Cloud Computing Architecture	08	06	10
3	Scalability And Fault Tolerance	08	07	15
4	Cloud Management And Virtualisation Technology	08	07	15
5	Virtualisation	08	08	10
6	Cloud Security	08	06	10
7	Cloud Computing Security Architecture	05	06	15
8	Market Based Management Of Clouds	05	05	10
9	Hadoop	05	04	10
	Total	**60**	**54**	**110**

Sign of Lect.   **Sign of HOD.**   **Sign of AIC**   **Sign of Vice Principal**

LESSON PLAN

Discipline: Computer science & Engg.	Semester: Sixth (6th)	Name Of The Faculty: Er Namita Sukla
Subject: Cloud computing	No of days/week class allotted: Six(6)	Semester from date: 14. 02.2023 to Date: 23. 05.2023 No of weeks: 15

WEEK	CLASS DAY	THEORY TOPICS
1st	1st	**Chapter No.- 01 (Introduction to Cloud Computing)** Historical development Vision of Cloud Computing
	2nd	Characteristics of Cloud computing
	3rd	Cloud computing Reference model
	4th	Cloud computing environment Cloud Service requirements
	5th	Cloud and Dynamic Infrastructure Cloud Adoption , Cloud application
	6th	*Possible Question Answer Discussion*
2nd	1st	**Chapter No.- 02 (Cloud Computing Architecture)** Introduction
	2nd	Cloud Reference Model
	3rd	Types of Clouds
	4th	Cloud Interoperability and standards
	5th	Cloud computing Interoperability use cases
	6th	Role of standards in Cloud Computing environment
3rd	1st	*Possible Question Answer Discussion*
	2nd	**Chapter No.- 03 (Scalability and Fault Tolerance)** Introduction Scalability and Fault Tolerance
	3rd	Cloud solutions
	4th	Cloud Ecosystem Cloud Business process management
	5th	Portability and Interoperability
	6th	Cloud Service management Cloud Offerings
4th	1st	Testing under Control
	2nd	Cloud service Controls Virtual desktop Infrastructure
	3rd	*Possible Question Answer Discussion*
	4th	*Monthly Test- 1*
	5th	**Chapter No.- 04 (Cloud Management and Virtualisation Technology)** Create a virtualized Architecture Data Centre
	6th	Resilience, Agility

5th	1st	Cisco Data Centre Network architecture
	2nd	Storage Provisioning
	3rd	Asset Management , Concept of Map Reduce
	4th	Cloud Governance , Load Balancing
	5th	High Availability , Disaster Recovery
	6th	*Possible Question Answer Discussion*
6th	1st	**Chapter No.- 05 (Virtualisation)** Virtualization, Network Virtualisation
	2nd	Desktop and Application Virtualization Desktop as a service
	3rd	Local desktop Virtualisation
	4th	Virtualizations benefits ,Server Virtualizations
	5th	Block and File level Storage Virtualisation
	6th	Virtual Machine Monitor
7th	1st	Infrastructure Requirements
	2nd	VLAN and VSAN
	3rd	*Possible Question Answer Discussion*
	4th	*Monthly Test- 2*
	5th	**Chapter No.- 06 (Cloud Security)** Cloud Security Fundamentals
	6th	Cloud security services
8th	1st	Design Principles
	2nd	Secure Cloud software requirements
	3rd	Policy Implementation
	4th	Cloud Computing Security Challenges
	5th	*Possible Question Answer Discussion*
	6th	**Chapter No.- 07 (Cloud Computing Security Architecture)** Architectural Considerations Information classification
9th	1st	Virtual Private Networks Public Key and Encryption Key management
	2nd	Digital certificates Key management
	3rd	Memory Cards
	4th	Implementing Identity Management
	5th	Controls and Autonomic System
	6th	*Possible Question Answer Discussion*
10th	1st	*Monthly Test- 3*
	2nd	**Chapter No.- 08 (Market Based Management of Clouds)** Cloud Information security vendors
	3rd	Cloud Federation, characterization
	4th	Cloud Federation stack
	5th	Third Party Cloud service
	6th	Case study

11th	1st	*Possible Question Answer Discussion*
	2nd	**Chapter No.- 09 (Hadoop)** Introduction
	3rd	Data Source
	4th	Data storage and Analysis
	5th	Comparison with other system
	6th	*Possible Question Answer Discussion*
12th	1st	Review Class for Chapter No.- 01
	2nd	Review Class for Chapter No.- 02
	3rd	Review Class for Chapter No.- 02
	4th	Review Class for Chapter No.- 02
	5th	Review Class for Chapter No.- 03
	6th	Review Class for Chapter No.- 03
13th	1st	*Monthly Test- 4*
	2nd	Review Class for Chapter No.- 04
	3rd	Review Class for Chapter No.- 04
	4th	Review Class for Chapter No.- 05
	5th	Review Class for Chapter No.- 05
	6th	Review Class for Chapter No.- 05
14th	1st	Review Class for Chapter No.- 06
	2nd	Review Class for Chapter No.- 06
	3rd	Review Class for Chapter No.- 07
	4th	Review Class for Chapter No.- 07
	5th	Review Class for Chapter No.- 08
	6th	Review Class for Chapter No.- 08
15th	1st	Review Class for Chapter No.- 09
	2nd	Previous Year (S- 22) Question Answer Discussion
	3rd	Previous Year (S- 22) Question Answer Discussion
	4th	Previous Year (S- 21) Question Answer Discussion
	5th	Previous Year (S- 20) Question Answer Discussion
	6th	Previous Year (S- 19) Question Answer Discussion

Chapters covered up to IA: ***1, 2,3 & 4***