## PNS SCHOOL OF ENGG. & TECH., MARSHAGHAI DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING LESSON PLAN

BRANCHE: COMP.SC. & ENGG.	SEMESTER:	NAME OF TEACHING FACULTY: ER. JYOTSNAMAYEE BISWAL
SUBJECT: CLOUD COMPUTING	NO. OF DAYS/ PER WEEK CLASS ALLOTTED: 06	SEMESTER FROM DATE : 13.02.2023 TO 23.05.2023 NO. OF WEEKS : 15
WEEK	CLASSDAY	THEORY TOPICS
	1st	Introduction To Cloud Computing
	2nd	1.1. Historical development
1ST	3rd	1.2. Vision of Cloud Computing
151	4th	Characteristics of Cloud computing
	5th	1.4. Cloud computing Reference model
	6th	1.5. Cloud computing environment
	1st	1.6. Cloud Service requirements
	2nd	1.7. Cloud and Dynamic Infrastructure
2ND	3rd	1.8. Cloud Adoption
ZND	4th	1.9. Cloud applications
	5th	Revision
	6th	Question Answer Discussion
	1st	Doubt Clearing class
	2nd	Cloud Computing Architecture
2DD	3rd	2.1. Introduction
3RD	4th	2.2. Cloud Reference Model
	5th	2.3. Types of Clouds
	6th	2.4. Cloud Interoperability and standards
	1st	2.5. Cloud computing Interoperability use cases
4ТН	2nd	2.6. Role of standards in Cloud Computing environment
	3rd	Scalability and Fault Tolerance
	4th	3.1. Introduction
	5th	3.2. Scalability and Fault Tolerance
	6th	3.3. Cloud solutions
	1st	3.4. Cloud Ecosystem

<b>5</b> TH	2nd	3.5. Cloud Business process management
	3rd	3.6. Portability and Interoperability
	4th	3.7. Cloud Service management
	5th	3.8. Cloud Offerings
	6th	3.9. Testing under Control
6ТН	1st	3.10. Cloud service Controls
	2nd	3.11. Virtual desktop Infrastructur
	3rd	Revision
	4th	Question Answer Discussion
	5th	CLASS TEST
	6th	Cloud Management and Virtualisation Technology
	1st	4.1. Create a virtualised Architecture
	2nd	4.2. Data Centre
<b>7</b> TH	3rd	4.3. Resilience
/111	4th	4.4. Agility
	5th	4.5. Cisco Data Centre Network architecture
	6th	4.6. Storage
	1st	4.7. Provisioning
8TH	2nd	4.8. Asset Management
	3rd	4.9. Concept of Map Reduce
0111	4th	4.10. Cloud Goverance
	5th	4.11. Load Balancing
	6th	4.12. High Availability
	1st	4.13. Disaster Recovery
	2nd	Virtualisation, 5.1. Virtualisation
9TH	3rd	5.2. Betwork Virtualisation
<b>7111</b>	4th	5.3. Desktop and Application Virtualisation
	5th	5.4. Desktop as a service
	6th	5.5. Local desktop Virtualisation
	1st	Revision
	2nd	Question Answer Discussion
10TH	3rd	Internal Exam
10111	4th	5.6. Virtualisation benefits,
	5th	5.7. Server Virtualisation
	6th	5.8. Block and File level Storage Virtualisation
	1st	5.9. Virtual Machine Monitor

11TH	2nd	5.10. Infrastructure Requirements
	3rd	5.11. VLAN and VSAN
	4th	Cloud Security
	5th	6.1. Cloud Security Fundamentals
	6th	6.2. Cloud security services
12TH	1st	6.3. Design Principles
	2nd	6.4. Secure Cloud software requirements
	3rd	6.5. Policy Implementation 6.6. Cloud Computing Security Challenges
12111	4th	Cloud Computing Security Architecture
	5th	7.1. Architectural Considerations,7.2. Information Classification
	6th	CLASS TEST
	1st	7.3. Virtual Private Networks
13ТН	2nd	7.4. Public Key and Encryption Key management
	3rd	7.5. Digital certificates
	4th	7.6. Key management,7.7. Memory Cards
	5th	7.8. Implementing Identity Management
	6th	7.9. Controls and Autonomic System
	1st	Revision
14TH	2nd	Market Based Management of Clouds
	3rd	8.1. Cloud Information security vendors
14111	4th	8.2. Cloud Federation, charactrization
	5th	8.3. Cloud Federation stack
	6th	8.4. Third Party Cloud service
15TH	1st	8.5. Case study
	2nd	Hadoop
	3rd	9.1. Introduction,9.2. Data Source
	4th	9.3. Data storage and Analysis
	5th	9.4. Comparison with other system
	6th	Revision