

PNS SCHOOL OF ENGG. & TECH , MARSHAGHAI ,KENDRAPARA
LESSON PLAN
SESSION (2025-2026)

BRANCHE: COMP.SC. & ENGG.	SEMESTER : 6TH	NAME OF TEACHING FACULTY : JYOTSNAMAYEE BISWAL
SUBJECT: CLOUD COMPUTING	NO. OF DAYS PER WEEK CLASS ALLOTTED : 05	START DATE : 22/12/2025 END DATE : 18/04/2026
WEEK	CLASS DAY	THEORY TOPICS
1ST	1st	Introduction To Cloud Computing (Historical development)
	2nd	Vision of Cloud Computing & Characteristics of Cloud computing
	3rd	Cloud computing Reference model &Cloud computing environment
	4th	Cloud Service requirements & Cloud and Dynamic Infrastructure
	5th	Cloud Adoption & Cloud applications
2ND	1st	Doubt Clearing class
	2nd	Cloud Computing Architecture(Introduction)
	3rd	Cloud Reference Model & Types of Clouds
	4th	Cloud Interoperability and standards & Cloud computing Interoperability use
	5th	Role of standards in Cloud Computing environment & Doubt clearing
3RD	1st	Scalability and Fault Tolerance (Introduction)
	2nd	Scalability and Fault Tolerance & Cloud solutions
	3rd	Cloud Ecosystem & Cloud Business process management
	4th	Portability and Interoperability & Cloud Service management
	5th	Cloud Offerings & Testing under Control
4TH	1st	Cloud service Controls & Virtual desktop Infrastructure
	2nd	Cloud Management and Virtualisation Technology
	3rd	Create a virtualised Architecture & Data Centre
	4th	Resilience & Agility
	5th	Cisco Data Centre Network architecture & Storage
5TH	1st	Provisioning & Asset Management
	2nd	Concept of Map Reduce & Cloud Governance
	3rd	Load Balancing & High Availability
	4th	Disaster Recovery
	5th	Virtualisation (introduction)
6TH	1st	Network Virtualisation & Desktop and Application Virtualisation
	2nd	Desktop as a service & Local desktop Virtualisation
	3rd	Virtualisation benefits & Server Virtualisation
	4th	Block and File level Storage Virtualisation
	5th	Virtual Machine Monitor
7TH	1st	Infrastructure Requirements
	2nd	VLAN and VSAN
	3rd	Cloud Security
	4th	Cloud Security Fundamentals
	5th	Cloud security services & Design Principles
8TH	1st	Secure Cloud software requirements
	2nd	Policy Implementation
	3rd	Cloud Computing Security Challenges
	4th	Cloud Computing Security Architecture
	5th	Architectural Considerations
9TH	1st	Information Classification
	2nd	Virtual Private Networks
	3rd	Public Key and Encryption Key management
	4th	Digital certificates
	5th	Key management
10TH	1st	Memory Cards
	2nd	Implementing Identity Management
	3rd	Controls and Autonomic System
	4th	Market Based Management of Clouds
	5th	Cloud Information security vendors
11TH	1st	Cloud Federation, characterization
	2nd	Cloud Federation stack
	3rd	Third Party Cloud service
	4th	Case study
	5th	Hadoop (Introduction)
12TH	1st	Data Source
	2nd	Data storage and Analysis
	3rd	Comparison with other system
	4th	Comparison with other system
	5th	Revision

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