

**PNS SCHOOL OF ENGG. & TECH , MARSHAGHAI ,KENDRAPARA  
LESSON PLAN , SESSION (2024-2025)**

<b>BRANCHE: COMP.SC. &amp; ENGG.</b>	<b>SEMESTE R : 6TH</b>	<b>NAME OF TEACHING FACULTY : MADHUSMITA RAM</b>
<b>SUBJECT: CLOUD COMPUTING</b>	<b>NO. OF DAYS/ PER WEEK CLASS ALLOTTED : 05</b>	<b>START DATE : 04/02/2025 END DATE : 17/05/2025</b>
<b>WEEK</b>	<b>CLASS DAY</b>	<b>THEORY TOPICS</b>
<b>1ST</b>	<b>1st</b>	<b>Introduction To Cloud Computing</b> ( Historical development)
	<b>2nd</b>	Vision of Cloud Computing & Characteristics of Cloud computing
	<b>3rd</b>	Cloud computing Reference model & Cloud computing environment
	<b>4th</b>	Cloud Service requirements & Cloud and Dynamic Infrastructure
	<b>5th</b>	Cloud Adoption & Cloud applications
<b>2ND</b>	<b>1st</b>	Doubt Clearing class
	<b>2nd</b>	<b>Cloud Computing Architecture</b> ( Introduction)
	<b>3rd</b>	Cloud Reference Model & Types of Clouds
	<b>4th</b>	Cloud Interoperability and standards & Cloud computing Interoperability use cases
	<b>5th</b>	Role of standards in Cloud Computing environment & Doubt clearing class
<b>3RD</b>	<b>1st</b>	<b>Scalability and Fault Tolerance</b> ( Introduction)
	<b>2nd</b>	Scalability and Fault Tolerance & Cloud solutions
	<b>3rd</b>	Cloud Ecosystem & Cloud Business process management
	<b>4th</b>	Portability and Interoperability & Cloud Service management
	<b>5th</b>	Cloud Offerings & Testing under Control
<b>4TH</b>	<b>1st</b>	Cloud service Controls & Virtual desktop Infrastructure
	<b>2nd</b>	<b>Cloud Management and Virtualisation Technology</b>
	<b>3rd</b>	Create a virtualised Architecture & Data Centre
	<b>4th</b>	Resilience & Agility
	<b>5th</b>	Cisco Data Centre Network architecture & Storage
<b>5TH</b>	<b>1st</b>	Provisioning & Asset Management
	<b>2nd</b>	Concept of Map Reduce & Cloud Governance
	<b>3rd</b>	Load Balancing & High Availability
	<b>4th</b>	Disaster Recovery
	<b>5th</b>	<b>Virtualisation</b> ( introduction)
<b>6TH</b>	<b>1st</b>	Network Virtualisation & Desktop and Application Virtualisation
	<b>2nd</b>	Desktop as a service & Local desktop Virtualisation
	<b>3rd</b>	Virtualisation benefits & Server Virtualisation
	<b>4th</b>	Block and File level Storage Virtualisation
	<b>5th</b>	Virtual Machine Monitor

7TH	1st	Infrastructure Requirements
	2nd	VLAN and VSAN
	3rd	<b>Cloud Security</b>
	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	<b>Cloud Computing Security Architecture</b>
	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	<b>Market Based Management of Clouds</b>
	5th	Cloud Information security vendors
11TH	1st	Cloud Federation, characterization
	2nd	Cloud Federation stack
	3rd	Third Party Cloud service
	4th	Case study
	5th	<b>Hadoop</b> (Introduction)
12TH	1st	Data Source
	2nd	Data storage and Analysis
	3rd	Comparison with other system
	4th	Revision
	5th	previous year questions answers discussion

*Madhusmita Ram*

SIGNATURE OF LECTURER

*Biswaranjan Swain*

SIGNATURE OF HoD



