

SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: <u>CSE</u>	Semester: <u>6th</u>	Name of the Teaching Faculty: <u>Aishwarya Mohapatra</u>
Subject: <u>CC</u> <u>cloud computing</u>	No of Days/per week class allotted: <u>4</u>	Semester from Date: <u>04.08.25</u> to Date: <u>17.05.25</u> No of Weeks: <u>15</u>
Week	Class Day	Theory/Practical Topics
1st	1st	Introduction to cloud computing Historical development of CC
	2nd	Vision & characteristics of cloud computing
	3rd	Reference model, environment
	4th	Requirement of cloud services.
	5th	
2nd	1st	Cloud Adoption and applications
	2nd	Historical & Architecture of CC
	3rd	Cloud reference model & types
	4th	Types of clouds.
	5th	
3rd	1st	Continue types of clouds
	2nd	Cloud Interoperability and standards
	3rd	Cloud computing Interoperability use cases
	4th	Role of standard in cloud
	5th	Assignment (Assignment-1)
4th	1st	Continue role of standard in environment
	2nd	Standard Introduction to Scalability
	3rd	Defining Scalability and Fault tolerance.
	4th	Cloud Solutions
	5th	
5th	1st	cloud ecosystem & business process management
	2nd	Portability & Interoperability
	3rd	Cloud offering service management
	4th	Cloud offering testing - (i) cloud service control (ii) Infrastructure
	5th	

A. Mohapatra
Sign of Faculty

HOD 31/1/25

Jahnu 31/01/25
Principal

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Discipline:	Semester:	Name of the Teaching Faculty: <i>A. Mohapatra</i>
Subject:	No of Days/per week class allotted:	Semester from Date: <i>04.02.25</i> to Date: No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Cloud virtualized architecture
	2nd	Data center, Resilience, Agility
	3rd	ECIO data center network.
	4th	Storage, provisioning n/w.
	5th	1
2nd	1st	Asset management.
	2nd	Reduces map (i), Cloud Governance.
	3rd	Load Balancing, High availability
	4th	Disaster Recovery.
	5th	(Assignment-2) (monthly-1)
3rd	1st	Define Virtualization, Network virtualization.
	2nd	Desktop & Application virtualization.
	3rd	Desktop as Service, Local desktop virtualization.
	4th	Virtualization benefits, servers virtual.
	5th	
4th	1st	Block and file level storage
	2nd	Virtual machine monitor
	3rd	Infrastructure requirements.
	4th	VLAN & VSAN
	5th	
5th	1st	cloud security fundamentals
	2nd	cloud security services.
	3rd	Design principles.
	4th	Secure cloud software requirements.
	5th	(Assignment-3)

A. Mohapatra
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for
HOD *BT/1/25*

for
Principal *21/01/25*

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Discipline:	Semester:	Name of the Teaching Faculty: <i>Dishuanga Mohapatra</i>
Subject:	No of Days/per week class allotted:	Semester from Date: <i>01.08.25</i> to Date: No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	Continue requirement
	2nd	Policy implementation
	3rd	Cloud computing Security challenge
	4th	Continue challenge
	5th	Monthly - 2)
2nd	1st	Architectural consideration
	2nd	Information classification
	3rd	VPN, public key & encryption key management
	4th	Digital certificate, memory card
	5th	(Assignment - 4) (n)
3rd	1st	Implementing Identity management & control & Automatic Synt
	2nd	cloud information security
	3rd	cloud Federation, characterization
	4th	cloud Federation stack
	5th	
4th	1st	third party cloud Service
	2nd	Case studies
	3rd	Introduction to Hadoop
	4th	Data Sources
	5th	
5th	1st	Defining data storage & Analysis
	2nd	Continue Analysis
	3rd	Comparison with other system
	4th	(monthly - 3)
	5th	(Assignment - 5)

A. Mahapatra
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Dishuanga
Principal *31/01/25*