Academic Lesson Plan of Summer 2023

Department : Information Technology	Semester : 6th	Name of the teaching faculty: Pranati Pattnaik
Week	Days	Theory
Subject: Cloud Computing	No.of days/per week class allotted , 4p/week.	Semester from : 14th feb2023 to 23rd may 2023
		No. of weeks:15 weeks
		Topics to be covered:
Feb 3rd week	1st	Introduction To Cloud Computing ,Historical development
	2nd	Characteristics of Cloud computing,Cloud computing Reference mode
	3rd	Cloud computing environment, Cloud Service requirements, Cloud and Dynamic Infrastructure
Feb 4th week	1st	Principles of security
	2nd	Cloud Adoption,. Cloud applications
	3rd	REVISION
	4th	Introduction to Cloud Computing Architecture
Feb 5th week	1st	Cloud Reference Model,. Types of Clouds
	2nd	Cloud Interoperability and standards.Cloud computing Interoperability use cases
March 1st week	1st	Role of standards In Cloud Computing environment
	2nd	REVISION
March 2nd week	1st	Introduction to Scalability and Fault Tolerance,Cloud solutions
	2nd	Cloud Ecosystem,Cloud Business process management
March 3rd week	1st	Introduction to Scalability and Fault Tolerance,Cloud solutions
	2nd	Cloud Offerings,Testing under Control,Data Centre,Resilience, Agility
	3rd	Cloud service Controls,Virtual desktop Infrastructure
	4th	Cloud Management and Virtualisation Technology, Create a virtualised Architecture
March 4th week	1st	Data Center,Resilience,Agility
	2nd	Cisco Data Centre Network architecture,Storage
	3rd	Provisioning,Asset Management,Concept of Map Reduce
	4th	Cloud Goverance,Load Balancing,High Availability,Disaster Recovery
March 5th week	1st	REVISION
	2nd	Virtualisation, Betwork Virtualisation
	3rd	Desktop as a service,. Local desktop Virtualisation,Desktop and Application Virtualisation
April 2nd week	1st	Virtualisation benefits,Server Virtualisation
	2nd	Block and File level Storage Virtualisation
	3rd	Virtual Machine Monitor,Infrastructure Requirements, VLAN and VSAN
April 3rd week	1st	REVISION
	2nd	Cloud Security,Cloud Security Fundamentals
	3rd	Cloud security services,Design Principles,Secure Cloud software requirements
	4th	Policy Implementation.. Cloud Computing Security Challenges
April 4th week	1st	REVISION
	2nd	Cloud Computing Security Architecture,Architectural Consideration
	3rd	Information Classification,Virtual Private Networks
	4th	Digital certificates,Key management,Memory Cards
May 1st week	1st	Implementing Identity Management
	2nd	Public Key and Encryption Key management
	3rd	Controls and Autonomic System
	4th	REVISION
May 2nd week	1st	Market Based Management of Clouds
	2nd	Cloud Information security vendors
	3rd	Cloud Federation, charactrization, Cloud Federation stack
	4th	Third Party Cloud service
May 3rd week	1st	Case study
	2nd	Data Source
	3rd	Data storage and Analysis
	4th	Comparison with other system
May 4th week	1st	Revision & Semester Question Answer Discussion
	2nd	Revision & Semester Question Answer Discussion

13/2/2023

Signature of the Faculty