

Course Name: Cloud Programming using Web Services

(UG/PG): PG

Number of Credits: 03

Level: 4

Learning Objective(s):

On successful completion of the course the students should have:

- 1. Learn the purpose of how to do the programming in cloud computing
- 2. Learn to design the architecture of cloud computing.
- 3. Understand the knowledge discovery process.

Pedagogy:

Lectures class work Class room discussion Case study Hands on Exercise

Pre-learning:

Good knowledge of cloud environment in terms of customization.

Course Outline

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S.No	Topic	Hours	
1	 Cloud Computing Software-as-a-service: SaaS Platform-as-a-service: PaaS Hardware-as-a-service: HaaS Infrastructure-as-a-service: IaaS 	9	
2	 Google Cloud Infrastructure Google File System Search engine MapReduce 	8	
3	 Grid Computing Amazon Web Services REST APIs SOAP API Query API User Authentication 	8	

4	 Simple Storage Service – S3 Overview Buckets Objects ACL Logging Signed URI 	8
5	 S3 Applications Elastic Cloud Compute - EC2 Overview Keypairs Network Types LAN Gateways and Router IP Classes and Subnets CIDR Utilities Instances Management Image Management Security groups Connecting to the Cloud OpenSSH Keys Tunneling / Port Forwarding 	12
	Total	45

Books Recommended