NM Institute Of Engineering and Technology, Bhubaneswar

DEPARTMENT:CSE

LESSON PLAN: Academic Year 2023-24 (Even Semester) COURSE: DIPLOMA SEMESTER: 6th

Subject/Code: Cloud Computing **Faculty Name: SK Safaruddin**

Sl. No.	Name of the Topic to Cover	Text Book	Teaching Method	Course Progress	Remark
1	Unit-1:IntroductiontoCloudComputing Historicaldevelopment	T1	P		
2	VisionofCloudComputing	T3	G		
3	CharacteristicsofCloudcomputing	T2	P		
4	CharacteristicsofCloudcomputing	T2	G		
5	Unit-2:CloudComputingArchitecture Introduction CloudReferenceModel	T2	G		
6	Typesof Clouds	T3	G		
7	CloudI nteroperability and standards ,Cloud computing Interoperability use cases	T2	P		
8	Role of standard sin Cloud Computing environment	T1	G		
9	Unit-3:Scalability and Fault Tolerance Introduction Scalability and Fault ToleranceCloudsolutions CloudEcosystem	T1	G		
10	Cloud Business process management Portability and Interopera bility Cloud Service management	T3	P		
11	TestingunderControl CloudOfferings	T1	G		
12	Cloud service ControlsVirtualdesktopInfras tructure	T2	P		
13	Unit-4: Cloud Management andVirtualization Technology Create a virtualized Ar chitecture. DataCentre, Resilience, Agility	T3	G		
14	Cisco Data Centre Network architecture	T2	G		
15	StoragePro visioning AssetManagement,Concep tof Map Reduce CloudGovernance	T2	G		
16	Load Balancing High Availability Disaster Recovery	T1	G		
17	Unit– 5:Virtualization Virtualization Virtualisation benefits	T3	P		
18	Desktop and Application Virtualisation Network Virtualisation	T1	G		
19	Local desktop Virtualisation Desktopasaservice	T3	G		

20	QUIZTEST	T2	G		
21	ServerVirtualisation	T3	G		
22	BlockandFilelevelStorageVirtualisation	T2	P		
23	VirtualMachineMonitor	T3	G		
24	InfrastructureRequirements	T2	G		
25	VLANandVSAN	T1	G		
26	Unit-6:CloudSecurity CloudSecurityFundamentals	T1	G		
27	Cloudsecurityservices	T2	P		
28	DesignPrinciples	T2	P		
29	SecureCloudsoftwarerequirements	T1	G		
30	PolicyImplementation	T3	G		
31	Unit- 7: Cloud Computing Security Architecture	T2	G		
32	ArchitecturalConsiderations	T1	G		
33	InformationClassification	T3	G		
34	VirtualPrivateNetworks	T3	P		
35	PublicKeyandEncryptionKeymanagement	T2	P		
36	Digitalcertificates	T1	G		
37	Keymanagement	T3	G		
38	MemoryCards	T3	G		
39	ImplementingIdentityManagement	T3	P		
40	ControlsandAutonomicSystem	T2	P		
41	Unit- 8:MarketBasedManagementofClouds	T1	G		
42	CloudInformationsecurityvendors	T2	G		

43	CloudFederation,characterization	T3	G		
44	CloudFederationstack	T1	G		
45	ThirdPartyCloudservice	T2	P		
46	Casestudy	T1	P		
47	Unit-9:Hadoop	T3	G		
48	Introduction	T3	P		
49	DataSource	T2	P		
50	DatastorageandAnalysis	T1	G		
51	Comparisonwithothersystem	T2	P		
52	QuizTest	T1	P		
53	Revision	T2	G		
54	Revision	T1	P		
55	DiscussionofQuestionAnswer	T2	P		
56	DiscussionofQuestionAnswer	T1	G		
57	DiscussionofQuestionAnswer	T3	P		
58	DiscussionofQuestionAnswer	T1	P		

Method of Teaching	
G: Green Board Teaching	
P: Power Point Teaching	

Faculty Signature

Understand the basic concepts of cloud and cloud architecture.

Learn about different cloud computing technology

Learn about the service levels for cloud applications.

Provides a practical exposure to professionals intending to work in cloud computing environment.

Understand the map reduce model and its application

Learn about basic concepts of software productivity in a cloud

Understand web services and platforms.

TEXT BOOKS:

Pankaj Sharma ,Cloud Computing Katson Books

Dr. U.S. Pandey , Dr. KavitaChoudhary Cloud Computing S. Chand

PrasantkumarPattnaik, ManasRanjanKabat Souvik Pal Fundamentals of Cloud Computing Vikas		