Lesson Plan

Name of the Faculty:	MR. Ravi Dutt Mishra
Discipline:	BCA
Semester:	2nd
Subject:	Cloud Computing Skills (B23-SEC-201)
WorkLoad (Lecture/Practical) per week (In hours):	Lecture-4

S.No	Lecture No.	Theory	
		Topic (IncludingAssignment/Test/Quiz)	Pedagogy (PPT/Chalk and Board/Video Recording /Activity/Case Study)
1.	L1.	Introduction to Cloud Computing	Chalk and Board and PPT
5.	L2.	Cloud Computing Concepts	Chalk and Board and PPT
6.	L3.	Computer Network Basics	Chalk and Board and PPT
8.	L4.	Concepts of Distributed Systems	Chalk and Board
7.	L5.	Necessity of Cloud Computing	Chalk and Board
8.	L6.	Cloud Service Providers and Their Significance	Chalk and Board
9.	L7.	Cloud Infrastructure Overview	Chalk and Board and PPT
11.	L8.	Pros and Cons of Cloud Computing	Chalk and Board and PPT
12.		**Assignment1**	On Paper
10.	L9.	Cloud Service Delivery Models (IaaS, PaaS, SaaS)	Chalk and Board
11.	L10.	Cloud Deployment Models	Chalk and Board and PPT
12.	L11.	Cloud Providers' Infrastructure Architecture	Chalk and Board
13.	L12.	Cloud Governance and Compliance	Chalk and Board and PPT
14.	L13.	Introduction to Cloud Storage	Chalk and Board and PPT
15.	L14.	Managing Cloud Storage	Chalk and Board and PPT
27.	L15.	Virtualization Concepts in Cloud Computing	Chalk and Board

28.	L16.	Virtualization for Enterprise Solutions	Chalk and Board
29.	L17.	Load Balancing in Cloud Environments	Chalk and Board
30.	L18.	Managing Information in the Cloud	Chalk and Board and PPT
31.	L19.	Building Cloud Networks	Chalk and Board and PPT
32.	L20.	Data Center Design for Cloud Computing	Chalk and Board
33.	L21.	Implementing Data Center-Based Cloud Solutions	Chalk and Board and PPT
34.	L22.	Installing Open Source Cloud Services	Chalk and Board and PPT
35.	L23.	Overview of Amazon Web Services (AWS)	Chalk and Board and PPT
36.	L24.	Google Cloud Platform (GCP) Overview	Chalk and Board
37.	L25.	Cloud Security Fundamentals	Chalk and Board
38.	L26.	Cloud Automation and Orchestration	Chalk and Board and PPT
39.	L27.	Cloud Monitoring and Management	Chalk and Board and PPT
40.	L28.	Big Data and Cloud Computing	Chalk and Board and PPT
41.	L29.	Cloud Cost Management	Chalk and Board and PPT
42.	L30.	Cloud Performance Optimization	Chalk and Board and PPT
43.	L31.	Serverless Computing in Cloud	Chalk and Board
44.	L32.	Edge Computing and the Cloud	Chalk and Board and PPT
45.	L33.	Cloud-Native Applications	Chalk and Board and PPT
46.	L34.	Cloud-Based Artificial Intelligence (AI) and Machine Learning (ML)	Chalk and Board and PPT
47.	L35.	Cloud in Internet of Things (IoT)	Chalk and Board and PPT
48.	L36.	Future Trends in Cloud Computing	Chalk and Board and PPT
49.		**Assignment 2**	On Paper

50.	L37.	Cloud Computing Case Studies	Chalk and Board and PPT
51.	L38.	Capstone Project: Designing a Cloud-Based Solution	Chalk and Board and PPT
52.	L39.	Cloud Computing Certification Exam Preparation	Chalk and Board and PPT
53.	L40.	Best Practices in Cloud Computing	Chalk and Board and PPT
54.	L41.	Final Review and Q&A	Chalk and Board and PPT