

Satyug Darshan Institute of Engineering and Technology

Lesson Plan / Teaching Plan / Lecture Plan with Progress : B Tech 7th Semester : 2025-26

Course Name (Code) : Cloud Computing(PEC-IT-I-703)

Faculty: Sangeeta Dipankar

Topics / lectures are arranged in sequence - same - as to be taught in the class. Maintain data related to "Date" in its hard copy.

S. No.	Lecture No	Topic Description	Teaching Pedagogy	Reference Material	Remarks, if any
1	1	Risks in Cloud Computing	Board	R1	
2	2	Online Social Networks and Applications	Board	R1	
3	3	Cloud Overview & Evolution	Board	R1	
4	4	Types of Clouds	Board	R1	
5	5	Risks in Cloud Computing	Board	R2	
6	6	Novel Applications of Cloud	Board	R1	
7	7	Cloud Requirements	Board	R2	
8	8	Cloud Architecture Introduction	Board	R2	
9	9	On-Demand Computing	Board	R1	
10	10	Infrastructure Virtualization	Board	R2	
11	11	CPU Virtualization and Hypervisors	Board	R1	
12	12	Storage Virtualization	Board	R2	
13	13	Cloud Computing Defined	Board	R2	
14	14	SPI Framework (SaaS, PaaS, IaaS)	PPT	Video lectures	
15	15	Traditional Software Model vs Cloud	PPT	R2	
16	16	Cloud Delivery and Deployment Models	Board	R1	
17	17	Key Drivers for Cloud Adoption	Board	R1	
18	18	Introduction to Cloud Security	Board	R1	
19	19	Infrastructure Security	Board	R2	
20	20	Network-Level Security	Board	R2	
21	21	Host-Level Security	Board	R1	
22	22	Application-Level Security	Board	R1	
23	23	Data Security and Storage	Board	R2	
24	24	Aspects of Data Security	Board	R1	
25	25	Data Security Mitigation	Board	R2	
26	26	Provider Data Security	Board	R1	
27	27	Identity and Access Management (IAM)	PPT	R1	
28	28	IAM Trust Boundaries & Challenges	PPT	R1	
29	29	IAM Standards and Authorization	PPT	R2	
30	30	Governance in Cloud & Adoption Barriers	Board	R2	
31	31	Security Management Standards	Board	R1	
32	32	Security in SaaS, PaaS, IaaS	Board	R2	
33	33	Availability Management	Board	R1	
34	34	Privacy Issues in the Cloud	Board	R1	
35	35	Data Life Cycle and Privacy	Board	R1	
36	36	Protecting Privacy & Risk Mitigation	Board	R2	
37	37	U.S. Legal Regulations	Board	R1	
38	38	International Laws & Cloud Compliance	Board	R2	

39	39	Introduction to Cloud Auditing	Board	R2	
40	40	Internal Policy Compliance & GRC	Board	R1	
41	41	External Compliance & Cloud Security Alliance	Board	R1	
42	42	Security-as-a-Cloud	Board	R1	
43	43	Intro to Data-Intensive Computing	Board	R2	
44	44	Technologies and Storage Systems	Board	R1	
45	45	Programming Platforms	Board	R2	
46	46	MapReduce Programming & Model	PPT	Video Lectures	
47	47	Example Applications on Cloud	Board	R2	
48	48	Impact of Cloud Computing on Users	Board	R2	

Study Material / Books / Web-resources / Online Courses Links	
S. No.	Description
1	Gautam Shroff, "Enterprise Cloud Computing Technology Architecture Applications",
2	Kai Hwang, Geoffrey C. Fox, Jack J. Dongarra, "Distributed and Cloud Computing
3	YouTube Video Lectures