

**DRONACHARYA COLLEGE OF ENGINEERING****KHENTAWAS, FARRUKHNAGAR, GURGAON, HR****Department: CSIT****Academic Session: (MAY-AUG 2021)****Lecture Plan with Assignment questions****Subject with code: CLOUD COMPUTING (PCC-IT-304G))****Name of Faculty : Dr. Ashima Mehta**

S.No	Lect No.	Sem-Class	Unit	Topic/Chapter covered	Lecture Wise Questions
1	1	VI CSIT	I	Online Social Networks and Applications	Q. Write applications of social networks. Define characteristics of cloud computing. Q.
2	2	VI CSIT	I	Cloud introduction and overview,	Q. Discuss evolution of cloud.
3	3	VI CSIT	I	Different clouds	Q. Differentiate between IaaS, PaaS and SaaS. Q. Give applications of various types of cloud services.
4	4	VI CSIT	I	Risks associated with cloud and Novel applications of cloud computing	Q. Discuss in detail the type of threats associated with cloud.
5	5	VI CSIT	II	Introduction Cloud computing architecture	Q. Discuss architecture of cloud.
6	6	VI CSIT	II	Various types of virtualization	Q. Discuss i) hardware and ii) software virtualization
7	7	VI CSIT	II	Various types of virtualization Ctd	Q. Discuss i) server and ii) network virtualization
8	8	VI CSIT	II	A discussion on Hypervisors Storage Virtualization Cloud Computing	Q. Case study to be given
9	9	VI CSIT	II	The SPI Framework for Cloud Computing, The Traditional Software Model,	Q. Case study to be given
10	10	VI CSIT	II	Discussion of service models in cloud	Q. Give advantages of using i. IaaS. ii) PaaS iii) SaaS
11	11	VI CSIT	II	Discussion of deployment models in cloud Ctd	Q. Differentiate between private, public and hybrid cloud
12	12	VI CSIT	II	Governance in the Cloud, Barriers to Cloud Computing Adoption in the Enterprise .	Q. Case study to be given
13	13	VI CSIT	III	The Network Level, The Host Level, The Application Level, Data Security and Storage.	Q. Discuss security aspects involved in cloud. Q. How to secure cloud at various network levels?
14	14	VI CSIT	III	Aspects of Data Security Ctd	
15	15	VI CSIT	III	IAM	Q. Discuss in detail about IAM.
16	16	VI CSIT	III	IAM Ctd	Q. What are relevant IAM standards and protocols for Cloud.
17	17	VI CSIT	III	IAM Challenges	Q. Discuss Access Management in detail. Q. Elaborate various IAM practices in cloud.
18	18	VI CSIT	III	Security Management in the Cloud,	Q. How security is managed in cloud?
19	19	VI CSIT	III	SaaS, PaaS, IaaS Privacy Issues Privacy Issues,	Q. Case study to be given

20	20	VI CSIT	III	Data Life Cycle	Q.Diagrammatically explain data life cycle.
21	21	VI CSIT	III	Key Privacy Concerns in the Cloud, Protecting Privacy	Q. What are the various privacy concerns in IaaS, PaaS and SaaS?
22	22	VI CSIT	III	Risk Management and Compliance in Relation to Cloud Computing,	Q. Diss risk management in detil.
23	23	VI CSIT	III	Legal and Regulatory Implications	Q. What are the various legal implications in cloud?
24	24	VI CSIT	III	U.S. Laws and Regulations, International Laws and Regulations	Q. What are the various legal implications in cloud?
25	25	VI CSIT	III	TEST OF UNIT III	TEST OF UNIT III
26	26	VI CSIT	IV	Internal Policy Compliance	Q. What are the various compliances associated with cloud?
27	27	VI CSIT	IV	Governance, Risk, and Compliance (GRC)	Q. Fundamentally explain GRC.
28	28	VI CSIT	IV	Cloud Security Alliance	Q. Case study to be given
29	29	VI CSIT	IV	Auditing the Cloud for Compliance,	Q. Case study to be given
30	31	VI CSIT	IV	Map-Reduce Programming Characterizing Data-Intensive Computations,	Q. Programming Example to be solved.
31	32	VI CSIT	IV	Technologies for Data- Intensive Computing, Storage Systems	Q. Programming Example to be solved.
32	33	VI CSIT	IV	MapReduce Programming&MapReduce Programming Model	Q.Programming Example to be solved. Q. Diagrammatically explain the components of Map Reduce Programming Model.
33	35	VI CSIT	IV	Example Application	Q. Case study to be given
35	36	VI CSIT	IV	TEST OF UNIT IV	TEST OF UNIT IV