LESSON PLAN

Name of the Institute:	C. V. Raman Polytechnic
Department:	Computer Science & Engineering
Semester/Division/Branch:	6th sem/CSE
Subject Name with code:	Cloud Computing(TH-3)
Total No. of Class (Required):	60
Faculty Name:	Amardip Das

Class No.	*Brief description of the Topic/Chapter to be taught*	Remarks
1	**Introduction To Cloud Computing**	
2	Historical development,Vision of Cloud Computing, Characteristics of Cloud computing	
3	Cloud computing Reference model,Cloud computing environment	
4	Cloud Service requirements, Cloud and Dynamic Infrastructure	
5	Cloud Adoption,Cloud applications	
6	**Cloud Computing Architecture**	
7	Introduction	
8	Cloud Reference Model	
9	Cloud Reference Model	
10	Types of Clouds	
11	Cloud Interoperability and standards	
12	Cloud computing Interoperability use cases	
13	Role of standards in Cloud Computing environment	
14	**Scalability and Fault Tolerance**	
15	Introduction,Scalability and Fault Tolerance	
16	Cloud solutions,Cloud Ecosystem	
17	Cloud Business process management,Portability and Interoperability	

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18	Cloud Service management, Cloud Offerings	
19	Testing under Control	
20	Cloud service Controls	
21	Virtual desktop Infrastructure	
22	**Cloud Management and Virtualisation Technology**	
23	Create a virtualised Architecture, Data Centre	
24	Resilience,Agility	
25	Cisco Data Centre Network architecture,Storage	
26	Provisioning,Asset Management	
27	Concept of Map Reduce,Cloud Goverance	
28	Load Balancing	
29	High Availability, Disaster Recovery	
30	**Virtualisation**	
31	Betwork Virtualisation, Desktop and Application Virtualisation	
32	Desktop as a service,Local desktop Virtualisation	
33	Virtualisation benefits	
34	Server Virtualisation	
35	Block and File level Storage Virtualisation,Virtual Machine Monitor	
36	Infrastructure Requirements	
37	VLAN and VSAN	
38	**Cloud Security**	
39	Cloud Security Fundamentals	
40	Cloud security services	
41	Design Principles	
42	Secure Cloud software requirements	
43	Policy Implementation	
44	Cloud Computing Security Challenges	
45	Cloud Computing Security Challenges	
46	**Cloud Computing Security Architecture**	

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47	Architectural Considerations, Information Classification, Virtual Private Networks	
48	Public Key and Encryption Key management,Digital certificates	
49	Key management,Memory Cards	
50	Implementing Identity Management, Controls and Autonomic System	
51	**Market Based Management of Clouds**	
52	Cloud Information security vendors	
53	Cloud Federation, charactrization, Cloud Federation stack	
54	Third Party Cloud service	
55	Case study	
56	**Hadoop**	
57	Introduction	
58	Data Source	
59	Data storage and Analysis	
60	Comparison with other system	

Signature of the Faculty

Signature of the H.O.D

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