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:	Manas Ranjan Mishra

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	

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**	

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