

# Bhoj Reddy Engineering College for Women: Hyderabad

Department of Computer Science and Engineering

Lesson plan of faculty member for the academic year 2016–17

Class: IV B Tech

Branch-Section: CSE-B

Semester: I

Subject: Cloud Computing

Lectures per week: 4+1 (Tutorial)

Lecture Number	Topics to be covered	Date (s)
<b>UNIT – I: System Modeling, Clustering and Virtualization</b>		
1	Distributed System Models and Enabling Technologies	13 June 2016
2	Distributed System Models and Enabling Technologies	15 June 2016
3	Computer Clusters for Scalable Parallel Computing	17 June 2016
4	Computer Clusters for Scalable Parallel Computing	18 June 2016
5	Tutorial(G3,G2,G1) – Clusters	13, 15, 16 June 2016
6	Computer Clusters for Scalable Parallel Computing	20 June 2016
7	Virtual Machines and Virtualization of Clusters	22 June 2016
8	Virtual Machines and Virtualization of Data centers	24 June 2016
9	Revision	25 June 2016
10	Tutorial(G3,G2,G1) – Virtualization of Clusters	20, 22, 23 June 2016
<b>UNIT-II: Foundations:</b>		
11	Introduction to Cloud Computing	27 June 2016
12	Introduction to Cloud Computing	29 June 2016
13	Migrating into a Cloud	01 July 2016
14	Migrating into a Cloud	02 July 2016
15	Tutorial(G3,G2,G1) – Migration into Cloud	27,29,30 June 2016
16	Enriching the Integration as a Service(IAAS)	04 July 2016
17	Enriching the Integration as a Service(IAAS)	06 July 2016
18	Paradigm for the Cloud Era	08 July 2016
19	Paradigm for the Cloud Era	09 July 2016
20	Tutorial(G3,G2,G1) – IAAS	04,06,07 July 2016
21	The Enterprise Cloud Computing Paradigm	11 July 2016
22	The Enterprise Cloud Computing Paradigm	13 July 2016
23	The Enterprise Cloud Computing Paradigm	15 July 2016
24	Revision	16 July 2016
25	Tutorial(G3,G2,G1) – Cloud computing paradigm	11,13,14 July 2016
<b>UNIT-III: IAAS &amp; PAAS</b>		
26	Virtual machines provisioning and Migration services	18 July 2016
27	Virtual machines provisioning and Migration services	20 July 2016
28	The Management of Virtual machines for Cloud	22 July 2016
29	Virtual machines for Cloud Infrastructures	23 July 2016
30	Tutorial(G3,G2,G1) – Migration services	18, 20, 21 July 2016
31	Virtual machines for Cloud Infrastructures	25 July 2016
32	Enhancing Cloud Computing Environment using clusters	27 July 2016
33	Enhancing Cloud Computing Environment using clusters	29 July 2016
34	Secure Distributed Data Storage in Cloud Computing	30 July 2016
35	Tutorial(G3,G2,G1) – Secure Distributed Data Storage	25, 27, 28 July 2016
36	Secure Distributed Data Storage in Cloud Computing	3 August 2016
37	Aneka, Comet Cloud, T-Systems	5 August 2016
38	Workflow Engine for Clouds	6 August 2016
39	Tutorial(G2,G1) – T-Systems	3, 4 August 2016
40	Understanding Scientific Applications for Cloud	17 August 2016

41	Understanding Scientific Applications for Cloud	19 August 2016
42	Revision	20 August 2016
43	Tutorial(G2,G1) – Applications for Cloud	17, 18 August 2016
<b>UNIT-IV: Monitoring, Management and Applications</b>		
44	An Architecture for Federated Cloud Computing	22 August 2016
45	An Architecture for Federated Cloud Computing	24 August 2016
46	SLA Management in Cloud Computing	26 August 2016
47	SLA Management in Cloud Computing	27 August 2016
48	Tutorial(G3,G2) – Architecture of Federated CC	22,24 August 2016
49	Performance Prediction for HPC on Clouds	29 August 2016
50	Performance Prediction for HPC on Clouds	31 August 2016
51	Best Practices in Architecting Cloud Applications in the AWS	02 September 2016
52	Best Practices in Architecting Cloud Applications in the AWS	03 September 2016
53	Tutorial(G3,G2,G1) – Performance Prediction for HPC on Clouds	29,31 August, 01 September 2016
54	Building Content Delivery networks using Clouds	07 September 2016
55	Building Content Delivery networks using Clouds	09 September 2016
56	Building Content Delivery networks using Clouds	10 September 2016
57	Tutorial(G3,G2) – Different network clouds	07,08 September 2016
58	Resource Cloud Mashups	14 September 2016
59	Revision	16 September 2016
<b>UNIT-V: Governance and Case Studies</b>		
60	Organizational Readiness and Change management	17 September 2016
61	Tutorial(G2,G1) – Resource Cloud Mashups	14,15 September 2016
62	Organizational Readiness and Change management	19 September 2016
63	Data Security in the Cloud	21 September 2016
64	Data Security in the Cloud	23 September 2016
65	Legal Issues in Cloud Computing	24 September 2016
66	Tutorial(G3,G2,G1) – Data security in the Cloud	19,21,22 September 2016
67	Legal Issues in Cloud Computing	26 September 2016
68	Legal Issues in Cloud Computing	28 September 2016
69	Achieving Production Readiness for Cloud Services	01 October 2016
70	Achieving Production Readiness for Cloud Services	03 October 2016
71	Tutorial(G3) – Legal issues in cloud computing	03 October 2016
72	Achieving Production Readiness for Cloud Services	28 October 2016
73	Legal Issues in Cloud Computing	29 October 2016
74	Tutorial(G1) – Legal issues in cloud computing	27 October 2016
75	Revision of UNIT- I & II	31 October 2016
76	Revision of UNIT- III & IV	02 November 2016
77	Tutorial(G3,G2,G1) – Revision	31 October, 02,03 November 2016

**Text books:**

1. Cloud Computing: Principles and Paradigms by Rajkumar Buyya, James Broberg and Andrzej M. Goscinski, Wiley, 2011.
2. Distributed and Cloud Computing, Kai Hwang, Geoffery C.Fox, Jack J.Dongarra, 2012.

Name and signature of the faculty: P Sumalatha ----

Name and signature of Head of the Department: K Usha Rani ----