ST.ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
<u>LECTURE SCHEDULE</u>

NAME OF THE SUBJECT: **CLOUD COMPUTING**　　　　ACADEMIC YEAR:**2019-20**
NAME OF THE FACULTY: **Mr.N. LAKSHMI NARAYANA**
Year &Sem/Section: **IV CSE-I SEM 'B'**
No. of Lectures per week　　　**: 4**

S.NO	DATE	TOPICS	UNIT
1	11-Jun-19	**UNIT-1** **Systems modeling, Clustering and virtualization:** Scalable Computing over the Internet,	1
2	12-Jun-19	Technologies for Network based systems,	
3	13-Jun-19	System models for Distributed and Cloud Computing,	
4	14-Jun-19	System models for Distributed and Cloud Computing,	
5	18-Jun-19	Software environments for distributed systems and clouds,	
6	19-Jun-19	Performance, Security And Energy Efficiency.	
7	20-Jun-19	REVISION THROUGH PPT	
8	21-Jun-19	UNIT TEST-1	
9	25-Jun-19	**UNIT -2: Virtual Machines and Virtualization of Clusters and Data Centers:**Implementation Levels of Virtualization,	2
10	26-Jun-19	Virtualization Structures/ Tools and mechanisms,	
11	27-Jun-19	Virtualization Structures/ Tools and mechanisms,	
12	28-Jun-19	Virtualization of CPU,	
13	2-Jul-19	Memory and I/O Devices,	
14	3-Jul-19	Virtual Clusters and Resource Management,	
15	4-Jul-19	Virtual Clusters and Resource Management,	
16	5-Jul-19	Virtualization for Data Center Automation.	
17	9-Jul-19	Virtualization for Data Center Automation.	
18	10-Jul-19	REVISION THROUGH PPT	
19	11-Jul-19	UNIT TEST-2	
20	12-Jul-19	**UNIT -3 Cloud Platform Architecture**: Cloud Computing and service Models,	3
21	16-Jul-19	Architectural Design of Compute and Storage Clouds,	
22	17-Jul-19	Public Cloud Platforms,	
23	18-Jul-19	Inter Cloud Resource Management,	
24	19-Jul-19	Cloud Security and Trust Management.	
25	23-Jul-19	Cloud Security and Trust Management.	
26	24-Jul-19	Service Oriented Architecture,	
27	25-Jul-19	Service Oriented Architecture,	
28	26-Jul-19	Message Oriented Middleware.	
29	30-Jul-19	Message Oriented Middleware.	
30	31-Jul-19	Message Oriented Middleware.	
31	1-Aug-19	REVISION THROUGH PPT	
32	2-Aug-19	REVISION THROUGH PPT	
33	6-Aug-19	MID 1	MID 1
34	7-Aug-19	MID 1	
35	8-Aug-19	MID 1	
36	9-Aug-19	MID 1	
37	13-Aug-19	**Unit- 4 Cloud Programming and Software Environments**: Features of Cloud and Grid Platforms,	4
38	14-Aug-19	Parallel & Distributed Programming Paradigms,	
39	16-Aug-19	Parallel & Distributed Programming Paradigms,	
40	20-Aug-19	Programming Support of Google App Engine	
41	21-Aug-19	Programming Support of Google App Engine	

42	22-Aug-19	, Programming on Amazon AWS and Microsoft Azure,	
43	26-Aug-19	Programming on Amazon AWS and Microsoft Azure,	
44	27-Aug-19	Emerging Cloud Software Environments.	
45	28-Aug-19	Emerging Cloud Software Environments.	
46	29-Aug-19	REVISION THROUGH PPT	
47	30-Aug-19	UNIT TEST-4	
48	3-Sep-19	**Unit-5 Cloud Resource Management and Scheduling** **:** Policies and Mechanisms for Resource Management	5
49	4-Sep-19	Applications of Control Theory to Task Scheduling on a Cloud,	
50	5-Sep-19	Stability of a Two Level Resource Allocation Architecture,	
51	6-Sep-19	Feedback Control Based on Dynamic Thresholds. Coordination of Specialized Autonomic Performance Managers,	
52	11-Sep-19	Resource Bundling, Scheduling Algorithms for Computing Clouds, Fair Queuing,	
53	12-Sep-19	Start Time Fair Queuing, Borrowed Virtual Time,	
54	13-Sep-19	Cloud Scheduling Subject to Deadlines,	
55	16-Sep-19	Scheduling MapReduce Applications Subject to Deadlines.	
56	17-Sep-19	REVISION THROUGH PPT	
57	18-Sep-19	UNIT TEST-5	
58	19-Sep-19	**UNIT-6 Storage Systems**: Evolution of storage technology,	6
59	20-Sep-19	storage models, file systems and database,	
60	24-Sep-19	distributed file systems,	
61	25-Sep-19	general parallel file systems.	
62	26-Sep-19	Google file system., Apache Hadoop,	
63	27-Sep-19	BigTable, Megastore,	
64	1-Oct-19	Amazon Simple Storage Service(S3)	
65	3-Oct-19	REVISION THROUGH PPT	
66	4-Oct-19	REVISION THROUGH PPT	
67	9-Oct-19	MID 2	MID 2
68	10-Oct-19	MID 2	
69	11-Oct-19	MID 2	

TEXT BOOKS
- Distributed and Cloud Computing, Kai Hwang, Geoffry C. Fox, Jack J. Dongarra MK Elsevier.
- Cloud Computing, Theory and Practice, Dan C Marinescu, MK Elsevier.
- Cloud Computing, A Hands on approach, ArshadeepBahga, Vijay Madisetti, University Press

REFERNCE BOOKS

- Cloud Computing, A Practical Approach, Anthony T Velte, Toby J Velte, Robert Elsenpeter, TMH
- Mastering Cloud Computing, Foundations and Application Programming, Raj Kumar Buyya, Christen vecctiola, S Tammaraiselvi, TMH.

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