

St. Ann's College of Engineering & Technology::Chirala
Department of Computer Science and Engineering.

LECTURE SCHEDULE

SUBJECT: Cloud Computing

Academic year:2019-20

NAME: K.SURENDRA

Year & Sem/Section: IV-I CSE-A

No.Of lecturers per week: 5+1*(Tutorial)

S.No	Date	Unit	Topic
1	10.06.19	I	Systems modeling, Clustering and virtualization: Scalable Computing over the Internet
2	11.06.19		Int. to Cloud Computing and its Applications
3	12.06.19		TUTORIAL
4	13.06.19		Technologies for Network based systems
5	14.06.19		Memory, Storage ,and Wide-Area Networking
6	15.06.19		Virtual Machines and Virtualization Middleware
7	17.06.19		System Models for Distributed and Cloud Computing
8	18.06.19		Clusters of Cooperative Computers
9	19.06.19		TUTORIAL
10	20.06.19		Software Environments for Distributed Systems and Clouds
11	21.06.19		Service Oriented Architecture(SOA),Trends toward Distributed OS
12	22.06.19		Performance, Security And Energy Efficiency
13	24.06.19		Performance Metrics and Scalability Analysis
14	25.06.19		TUTORIAL
15	26.06.19		UNIT TEST-1
16	27.06.19	II	Virtual Machines and Virtualization of Clusters and Data Centers: Implementation Levels of Virtualization
17	28.06.19		Levels of Virtualization Implementation
18	29.06.19		VMM Design Requirements and Providers
19	01.07.19		Virtualization support at the OS level
20	02.07.19		Middleware support for virtualization
21	03.07.19		TUTORIAL
22	04.07.19		Virtualization Structures/ Tools and mechanisms
23	05.07.19		Hypervisor and Xen Architecture ,Binary Translation with Full Virtualization
24	06.07.19		Virtualization of CPU, Memory and I/O Devices
25	08.07.19		Hardware Support for Virtualization
26	09.07.19		CPU Virtualization , Memory Virtualization, I/O Virtualization
27	10.07.19		TUTORIAL
28	11.07.19		Virtual Clusters and Resource Management : Physical versus Virtual Clusters
29	12.07.19		Migration of Memory, Files and Network Resources
30	15.07.19		Virtualization for Data Center Automation
31	16.07.19		Server Consolidation in Data Centers, Virtual Storage Management

32	17.07.19		TUTORIAL
33	18.07.19		UNIT TEST-II
34	19.07.19	III	Cloud Platform Architecture: Cloud Computing and service Models
35	20.07.19		Architectural Design of Compute and Storage Clouds
36	22.07.19		Public Cloud Platforms
37	23.07.19		Inter Cloud Resource Management
38	24.07.19		TUTORIAL
39	25.07.19		Cloud Security and Trust Management
40	26.07.19		Service Oriented Architecture
41	27.07.19		Message Oriented Middleware: Enterprise Bus, Publish Subscribe Model and Notification
42	29.07.19		Queuing and Messaging Systems
43	30.07.19		Cloud or Grid Middleware Applications
44	31.07.19		TUTORIAL
45	01.08.19		REVISION
46	02.08.19		REVISION
47	03.08.19		MID-I EXAMINATION
48	05.08.19		MID-I EXAMINATION
49	06.08.19		MID-I EXAMINATION
50	07.08.19		MID-I EXAMINATION
51	08.08.19		MID-I EXAMINATION
52	09.08.19		MID-I EXAMINATION
53	10.08.19	IV	Cloud Programming and Software Environments:
54	13.08.19		Features of Cloud and Grid Platforms
55	14.08.19		TUTORIAL
56	16.08.19		Parallel & Distributed Programming Paradigms
57	17.08.19		Hadoop Library from Apache
58	19.08.19		Programming Support of Google App Engine
59	20.08.19		Google File System, Google's NOSQL System
60	21.08.19		TUTORIAL
61	22.08.19		Programming on Amazon AWS and Microsoft Azure
62	26.08.19		Programming on Amazon EC2, Simple Storage Service
63	27.08.19		Emerging Cloud Software Environments
64	28.08.19		TUTORIAL
65	29.08.19		Open Source Eucalyptus and Nimbus
66	30.08.19		UNIT TEST - IV
67	31.08.19		Cloud Resource Management and Scheduling: Cloud Resources
68	03.09.19		Policies and Mechanisms for Resource Management Applications of Control Theory to Task Scheduling on a Cloud

69	04.09.19	V	TUTORIAL
70	05.09.19		Stability of a Two Level Resource Allocation Architecture
71	06.09.19		Feedback Control Based on Dynamic Thresholds
72	07.09.19		Coordination of Specialized Autonomic Performance Managers
73	09.09.19		Resource Bundling, Scheduling Algorithms for Computing Clouds
74	11.09.19		TUTORIAL
75	12.09.19		Fair Queuing, Start Time Fair Queuing
76	13.09.19		Borrowed Virtual Time
77	16.09.19		Cloud Scheduling Subject to Deadlines
78	17.09.19		Scheduling MapReduce Applications Subject to Deadlines.
79	18.09.19		UNIT TEST - V
80	19.09.19	VI	Storage Systems: : Evolution of storage technology
81	20.09.19		Storage models
82	21.09.19		Storage models
83	23.09.19		File systems and Database
84	24.09.19		Distributed File Systems
85	25.09.19		TUTORIAL
86	26.09.19		General Parallel File Systems
87	27.09.19		Google File System.
88	28.09.19		Apache Hadoop, Big Table
89	30.09.19		Megastore, Amazon Simple Storage Service(S3)
90	01.10.19		REVISION
91	03.10.19		REVISION
92	04.10.19		REVISSION
93	05.10.19		MID-II EXAMINATION
94	07.10.19		MID-II EXAMINATION
95	09.10.19		MID-II EXAMINATION
96	10.10.19		MID-II EXAMINATION
97	11.10.19		MID-II EXAMINATION
98	12.10.19		MID-II EXAMINATION

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.

Faculty

HOD