

Cloud Computing

Course Objectives

The core objective of this course is to provide an understanding of cloud computing, and to compare it with existing technologies. Also it is aimed at gaining knowledge on developing cloud as a service.

Syllabus

Cloud Computing, History of Cloud Computing, Cloud Architecture, Disadvantages of Cloud Computing, Cloud Services, Types of Cloud Service Development, Centralizing Email Communications, Schedules, To-Do Lists, Contact Lists, Group Projects and Events, Calendars, Schedules and Task Management, Contact Management, Project Management, Databases, Web-Based Communication Tools, Web Mail Services, Social Networks and Groupware, Blogs and Wikis.

Expected Outcomes

On completion of the course, the students are expected to have the ability to design and develop cloud services. Also it is for making them able to use Cloud Service and collaborate it with various applications and taking it online. References

1. Dan C. Marinescu , Cloud computing: Theory and Practice, Morgan Kaufmann, 2013
2. Kai Hwang, Geoffrey C. Fox, Jack J. Dongarra, Distributed and Cloud Computing,: From
3. Parallel Processing to the Intermnet of Things, 1/e, Morgan Kaufmann , 2011
4. Michael Miller, Cloud Computing: Web-Based Applications That Change the Way You Work and Collaborate Online, Que Publishing, 2008.
5. Haley Beard, Cloud Computing Best Practices for Managing and Measuring Processes for Ondemand Computing, Applications and Data Centers in the Cloud with SLAs, Emereo Pty Limited, 2008.

COURSE PLAN

1 Cloud Computing – History of Cloud Computing – Cloud Architecture– Cloud Storage – Why Cloud Computing Matters – Advantages of Cloud Computing – Disadvantages of Cloud Computing – Companies in the Cloud Today

2 Cloud Services Web-Based Application – Pros and Cons of Cloud Service Development – Types of Cloud Service Development – Software as a Service – Platform as a Service – Web Services – On-Demand Computing

First Internal Examination

3 Discovering Cloud Services Development Services and Tools – Amazon Ec2 – Google App Engine – IBM Clouds. Centralizing Email Communications – Collaborating on Schedules – Collaborating on To-Do Lists

4 Collaborating Contact Lists – Cloud Computing for the Community – Collaborating on Group Projects and Events – Cloud Computing for the Corporation. Collaborating on Calendars, Schedules and Task Management – Exploring Online Scheduling Applications

Second Internal Examination

5 Exploring Online Planning and Task Management – Collaborating on Event Management – Collaborating on Contact Management – Collaborating on Project Management – Collaborating on Word Processing - Collaborating on Databases – Storing and Sharing Files- Collaborating via Web-Based Communication Tools – Evaluating Web Mail Services – Evaluating Web Conference Tools – Collaborating via Social Networks and Groupware – Collaborating via Blogs and Wikis.

Final Examination