COURSE TITLE	:	CLOUD COMPUTING
COURSE CODE	:	5134
COURSE CATEGORY	:	ELECTIVE
PERIODS/WEEK	:	4
PERIODS/SEMESTER	:	52
CREDITS	:	4

TIME SCHEDULE

MODULE	TOPICS	PERIODS
1	UNDERSTANDING CLOUD COMPUTING	13
2	CLOUD SERVICES FOR COLLABORATION	13
3	USAGE OF CLOUD SERVICES	13
4	ONLINE COLLABORATION METHODS	13

Course General Outcomes:

Sl.	G.O	On completion of this course the student will be able :
1	1	To Understand Cloud Computing concepts
	2	To Understand Cloud Services
2	1	To Explore various Cloud Services for Collaboration
3	1	To Explore different Cloud Services
4	1	To Explore different ways to Collaborate online

Specific Outcomes

Module I Cloud Computing concepts

1.1 To Understand Cloud Computing concepts
       1.1.1 Define Cloud Computing
       1.1.2 To discuss History of Cloud Computing
       1.1.3 To Describe Cloud Architecture
       1.1.3 To Discuss Cloud Storage
       1.1.4 To Discuss need of Cloud Computing
       1.1.5 Compare Advantages & Disadvantages of Cloud Computing
       1.1.6 To List Cloud Services

1.2 To Understand Cloud Services
       1.2.1 To Discuss Web-Based Application
       1.2.2 To discuss Pros and Cons of Cloud Service Development
       1.2.3 To discuss Types of Cloud Service Development
       1.2.4 To discuss Software as a Service
       1.2.5 To discuss Platform as a Service
       1.2.6 To discuss Web Services
       1.2.7 To discuss On-Demand Computing

CONTENT DETAILS

Module I   UNDERSTANDING CLOUD COMPUTING

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 – Cloud Services

DEVELOPING 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 –

Discovering Cloud Services Development Services and Tools – Amazon EC2 – Google App Engine – IBM Smart Clouds

Module II   CLOUD SERVICES FOR COLLABORATION
Centralizing Email Communications – Collaborating on Schedules – Collaborating on To-Do Lists – Collaborating Contact Lists – Cloud Computing for the Community – Collaborating on Group Projects and Events – Cloud Computing for the Corporation

Module III   USAGE OF CLOUD SERVICES
Collaborating on Calendars, Schedules and Task Management – Exploring Online Scheduling Applications – 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

Module IV   ONLINE COLLABORATION METHODS
Collaborating via Web-Based Communication Tools – Evaluating Web Mail Services – valuating Web Conference Tools – Collaborating via Social Networks and Groupware – Collaborating via Blogs and Wikis

TEXT BOOK(S)

1. Michael Miller, Cloud Computing: Web-Based Applications That Change the Way You Work and Collaborate Online, Que Publishing, August 2008.

REFERENCES:

1. Haley Beard, Cloud Computing Best Practices for Managing and Measuring Processes for On demand Computing, Applications and Data Centers in the Cloud with SLAs, Emereo Pty Limited, July 2008
2. Cloud computing a practical approach Anthony T.Velte Toby J. Velte Robert Elsenpeter-TATA McGraw-2010