

SRI VENKATESWARA UNIVERSITY
B.Sc. DEGREE COURSE IN CLOUD COMPUTING

FIRST YEAR - FIRST SEMESTER
(Syllabus under CBCS w.e.f. 2020-21)

Core Course Paper-I: BASICS OF CLOUD COMPUTING
(Total hours of teaching – 60 @ 04 Hrs./Week)

Objective

The student will be knowing Cloud Computing basics and its services which include SaaS, PaaS, and IaaS. It also deals with different types of cloud such as Google, Amazon, IBM, Redhat, Microsoft and Salesforce.com

Outcome:

The student will

1. Get acquainted with the term Cloud computing.
2. Understand various types of free and commercial clouds.
3. Understands various types of cloud services like SaaS. PaaS and IaaS.
4. Know how the Cloud Computing is changing software industry.

UNIT-I

Computer Networks, basics of networking, Architectures of networking, topologies, types of Networks ,LAN,WAN,MAN, Network Components, Protocols, Communication aspects, basics of internet.

UNIT-II

Client-Server Computing, Cluster Computing, Grid Basics, Distributed Computing. Introduction to Cloud Computing, Introduction to Software as a Service (SaaS), Infrastructure as a Service (IaaS), and Platform as a Service (PaaS).

UNIT- III

Understanding Google Cloud, Google Apps, Google Compute Engine (GCE) ,Google App Engine. Amazon Services, Amazon Web Services, Amazon EC2. IBM Cloud Computing with its PaaS, IBM as Saas and IBM as IaaS.

UNIT-IV

Red hat Cloud Computing with its PaaS. Microsoft Azure Cloud Computing Service- Windows azure platform Services, Windows Azure storage, Windows Azure fabrics.

UNIT-V

Salesforce Cloud Computing Services Pass, SaaS and IaaS.Heroku and Force.com as PaaS.

References

1. Cloud Computing – An Introduction bySubuSangameswar
2. Mastering Cloud Computing Paperback by Buyya (Author), Vecchiola (Author),Selvi (Author)
3. Cloud Computing for Complete Beginners: Building and Scaling High-PerformanceWeb Servers on the Amazon Cloud **by IkramFatah**

RECOMMENDED CO-CURRICULAR ACTIVITIES:

(Co-curricular activities shall not promote copying from textbook or from others work and shall encourage self/independent and group learning)

A. Measurable

1. Assignments (in writing and doing forms on the aspects of syllabus content and outside the syllabus content. Shall be individual and challenging)
2. Student seminars (on topics of the syllabus and related aspects (individual activity))
3. Quiz (on topics where the content can be compiled by smaller aspects and data (Individuals or groups as teams))
4. Study projects (by very small groups of students on selected local real-time problems pertaining to syllabus or related areas. The individual participation and contribution of students shall be ensured (team activity))

B. General

1. Group Discussion
2. Try to solve MCQ's available online.
3. Others

RECOMMENDED CONTINUOUS ASSESSMENT METHODS:

Some of the following suggested assessment methodologies could be adopted;

1. The oral and written examinations (Scheduled and surprise tests),
2. Closed-book and open-book tests,
3. Problem-solving exercises,
4. Practical assignments and laboratory reports,
5. Individual and group project reports.
6. Efficient delivery using seminar presentations,
7. Viva voce interviews.
8. Computerized adaptive testing, literature surveys and evaluations,
9. Peers and self-assessment, outputs form individual and collaborative work

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Practical Paper-I: CLOUD COMPUTING LAB

- 1) Creating Amazon Account to store images.
- 2) Creating Google Account to store files and programs.
- 3) Creating IBM cloud account and access storage space.
- 4) Creating Microsoft Azure Account and working on Azure Cloud
- 5) Creating salesforce.com Account and working on Trailhead.com

SRI VENKATESWARA UNIVERSITY
B.Sc. DEGREE EXAMINATION IN CLOUD COMPUTING

FIRST YEAR - FIRST SEMESTER
(Revised Syllabus under CBCS w.e.f. 2020-21)

Core Course Paper– I: BASICS OF COLUD COMPUTING

MODEL QUESTION PAPER

Time: 3 hours

Marks: 75 marks

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer any five of the following questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks

PART – A

Answer any Five of the following question.

(5X5=25M)

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

PART – B

Answer All The Questions. Each question carries 10 marks (5X10= 50M)

1.	(A)	OR
	(B)	
2.	(A)	OR
	(B)	
3.	(A)	OR
	(B)	
4.	(A)	OR
	(B)	
5.	(A)	OR
	(B)	