

B.C.A. (Honours) & B.C.A. (Honours with Research)
(Semester - 5 and Semester - 6)
To be effective from June – 2025
Saurashtra University

CS-39: Introduction of Cloud Computing		
Unit No.	Topic	Detail
1	Introduction to Cloud Computing	<ul style="list-style-type: none"> • Introduction • Evolution • Benefits and berries • Cloud SPI Models • Cloud Computing vs Cluster computing • Cloud Architecture
2	Management in Cloud Computing	<ul style="list-style-type: none"> • Service Level Agreements (SLAs) • Quality of Service (QoS) • Scaling cloud hardware • Managing data • Cloud Security and Privacy
3	Cloud Computing Standards	<ul style="list-style-type: none"> • Cloud computing standards and interoperability • Technical considerations for migration to the cloud • Cloud Services • Case Studies

Reference Books:

- K Saurabh, Cloud Computing, 2nd Edition, Wiley India
- V Joysula, M Orr, G Page, (2012) Cloud Computing: Automating the VirtualizedData Center: Cisco Press.
- Mei- Ling Liu, (2004) “Distributed Computing: Principles and Application”, Pearson Education, Inc. New Delhi
- Miller M, (2008) Cloud Computing, 8th Edition, Que Publishers.
- Buyya R K, (2011) Cloud Computing: Principles and Paradigms, Wiley Press.

Course Outcomes:

- Analyses the phases of transition from classic datacenter to virtual data center and then to the cloud.
- Implement the key characteristics, services, and deployment models of cloud.