

II YEAR SEM-2 B.Tech CSE	CORE	L	T	P	C
CODE:CS2204	CLOUD COMPUTIG	1	1	0	2

## UNIT I

**Cloud Computing Fundamentals:** Cloud computing definition, private, public and hybrid cloud. Cloud types; IaaS, PaaS, SaaS. Benefits and challenges of cloud computing, public vs private clouds, role of virtualization in enabling the cloud; Business Agility: Benefits and challenges to Cloud architecture. Application availability, performance, security and disaster recovery; next generation Cloud Applications.

## UNIT II

**Cloud Applications:** Technologies and the processes required when deploying web services; Deploying a web service from inside and outside a cloud architecture, advantages and disadvantages

## UNIT III

### Cloud as IaaS :

Private Cloud Environment: Basics of Private cloud infrastructure, QRM cloud demo  
Public Cloud Environme : Understanding & exploring Amazon Web services; Managing and Creating Amazon EC2 instances; Managing and Creating Amazon EBS volumes;  
Managing Hybrid Cloud environment.

### Text Books

1. GautamShroff, "Enterprise Cloud Computing Technology Architecture Applications", Cambridge University Press; 1 edition, 2010.
2. Toby Velte, Anthony Velte, Robert Elsenpeter, "Cloud Computing, A Practical Approach", McGraw Hill, 1 edition 2009.
3. Dimitris N. Chorafas, "Cloud Computing Strategies",CRC Press; 1 edition,2010.