

Detailed Syllabus of Bachelor of Science in Cloud Computing (Level 6)
Faculty of Computer Science
Ballsbridge University

UNIT-I

- 1 Introduction to Cloud Computing, Cloud computing deployment and Service delivery models
 - 1.1 PaaS, SaaS & IaaS
 - 1.2 Introduction to Virtualization Technology
 - 1.3 Server Virtualization, Storage Virtualization, Desktop Virtualization & Network Virtualization
 - 1.4 Study on open source Virtualization Software such as HyperV,VMware, EUCALYPTUS & Xen
 - 1.5 Assignments, case studies

UNIT-II

- 2 Cloud Databases
 - 2.1 Type of NoSQL, Key-Value, Column Family, Document & Graph NoSQL
 - 2.2 Study on Cassandra, MongoDB, Neo4J or any open source NoSQL databases
 - 2.3 Application Development in Cloud
 - 2.4 Assignments, case studies

UNIT –III

- 3 Introduction to Bigdata
 - 3.1 Bigdata Analytics tools & Technology
 - 3.2 Assignments, case studies

UNIT-V

- 4 Cloud Security & Management
 - 4.1 SLA
 - 4.2 Assignments, Case studies

REFERENCES

1. Prospects of Cloud Computing in Education and e-Governance: An Analytical Study, Ganesh Chandra Deka, LAP LAMBERT Academic Publishing (2012)
2. **Cloud Computing: A Practical Approach**, LAP LAMBERT Academic Publishing (2012)
3. Handbook of Research on Cloud Infrastructures for Big Data Analytics, Pethuru Raj (IBM India Pvt. Ltd, India) and Ganesh Chandra Deka
4. Recent research publications in the reputed Journals/ Conference
5. Websites of the leading Cloud Service providers