

Cloud Computing syllabus for CS 5 Sem 2015 scheme | VTU CBCS 15CS565 Syllabus

VTU / Syllabus / CS / 2015 Scheme / 5 SEM / Cloud Computing		
Module-1	Introduction	8 hours
<p>Introduction ,Cloud Computing at a Glance, The Vision of Cloud Computing, Defining a Cloud, A Closer Look, Cloud Computing Reference Model, Characteristics and Benefits, Challenges Ahead, Historical Developments, Distributed Systems, Virtualization, Web 2.0, Service-Oriented Computing, Utility-Oriented Computing, Building Cloud Computing Environments, Application Development, Infrastructure and System Development, Computing Platforms and Technologies, Amazon Web Services (AWS), Google AppEngine, Microsoft Azure, Hadoop, Force.com and Salesforce.com, Manjrasoft Aneka.</p> <p>Virtualization, Introduction, Characteristics of Virtualized, Environments Taxonomy of Virtualization Techniques, Execution Virtualization, Other Types of Virtualization, Virtualization and Cloud Computing, Pros and Cons of Virtualization, Technology</p>		
Module-2	Cloud Computing Architecture	8 hours
<p>Cloud Computing Architecture, Introduction, Cloud Reference Model, Architecture, Infrastructure / Hardware as a Service, Platform as a Service, Software as a Service, Types of Clouds, Public Clouds, Private Clouds, Hybrid Clouds, Community Clouds, Economics of the Cloud, Open Challenges, Cloud Definition, Cloud Interoperability and Standards Scalability and Fault Tolerance Security, Trust, and Privacy Organizational Aspects</p> <p>Aneka: Cloud Application Platform, Framework Overview, Anatomy of the Aneka Container, From the Ground Up: Platform Abstraction Layer, Fabric Services, foundation Services, Application Services, Building Aneka Clouds, Infrastructure Organization, Logical Organization, Private Cloud Deployment Mode, Public Cloud Deployment Mode, Hybrid Cloud Deployment Mode, Cloud Programming and Management, Aneka SDK, Management Tools</p>		
Module-3	Concurrent Computing	8 hours
<p>Concurrent Computing:</p> <p>Thread Programming, Introducing Parallelism for Single Machine Computation, Programming Applications with Threads, What is a Thread?, Thread APIs, Techniques for Parallel Computation with Threads, Multithreading with Aneka, Introducing the Thread Programming Model, Aneka Thread vs. Common Threads, Programming Applications with Aneka Threads, Aneka Threads Application Model, Domain Decomposition: Matrix Multiplication, Functional Decomposition: Sine, Cosine, and Tangent. High-Throughput Computing: Task Programming, Task Computing, Characterizing a Task, Computing Categories, Frameworks for Task Computing, Task-based Application Models, Embarrassingly Parallel Applications, Parameter Sweep Applications, MPI Applications, Workflow Applications with Task Dependencies, Aneka Task-Based Programming, Task Programming Model, Developing Applications with the Task Model, Developing Parameter Sweep Application, Managing Workflows.</p>		
Module-4	Data Intensive Computing	8 hours
<p>Data Intensive Computing:</p>		

Categories

[VTU last year question papers](#)
[VTU E Learning](#)
[VTU Time Table](#) New
[Model Question Papers](#) New
[VTU Syllabus](#) New
[VTU Results](#)
[VTU Jobs](#)
[VTU Question Bank](#)
[VTU Revaluation Results](#)
[SGPA to Percentage](#)

VTU Updates

[VTU NON-CBCS Results](#) New
[SSP Scholarship 2021](#) New
[Cloud Computing vtu question papers](#) New
[Machine Learning Syllabus](#) New
[Machine Learning VTU Question Papers](#) New
[Web Technology Syllabus](#) New
[VTU change of college Procedure](#) New
[VTU MTech Syllabus](#) New
[VTU MBA Results](#) New
[VTU Notes](#) New
[VTU PhD TimeTable 2020](#) New
[VTU Academic Calendar 2020-21](#) Odd Sem
[VTU Updates](#) New
[Infosys Recruitment 2021](#) New
[Cyber Security Syllabus](#) New
[Contact Us](#)

Get Email Alerts

Email address

Subscribe Now

Map-Reduce Programming, What is Data-Intensive Computing?, Characterizing Data-Intensive Computations, Challenges Ahead, Historical Perspective, Technologies for Data-Intensive Computing, Storage Systems, Programming Platforms, Aneka MapReduce Programming, Introducing the MapReduce Programming Model, Example Application

Module-5	Cloud Platforms in Industry	8 hours
<p>Cloud Platforms in Industry, Amazon Web Services, Compute Services, Storage Services, Communication Services, Additional Services, Google AppEngine, Architecture and Core Concepts, Application Life-Cycle, Cost Model, Observations, Microsoft Azure, Azure Core Concepts, SQL Azure, Windows Azure Platform Appliance. Cloud Applications Scientific Applications, Healthcare: ECG Analysis in the Cloud, , Social Networking, Media Applications, Multiplayer Online Gaming.</p> <p>Course outcomes:</p> <p>The students should be able to:</p> <ul style="list-style-type: none">• Explain the concepts and terminologies of cloud computing• Demonstrate cloud frameworks and technologies• Define data intensive computing• Demonstrate cloud applications <p>Question paper pattern:</p> <ul style="list-style-type: none">• The question paper will have ten questions.• There will be 2 questions from each module.• Each question will have questions covering all the topics under a module.• The students will have to answer 5 full questions, selecting one full question from each module. <p>Text Books:</p> <p>1. Rajkumar Buyya, Christian Vecchiola, and Thamarai Selvi Mastering Cloud. Computing McGraw Hill Education</p> <p>Reference Books:</p> <p>NIL</p>		