



Mangalmai Institute of Management Technology
Greater Noida (U.P.)



MANGALMAY
INSTITUTE OF MANAGEMENT TECHNOLOGY



CERTIFICATION PROGRAMME

On

Cloud Computing

From

14th March - 17th May 2023

Convener: Mr. Abhay N Tripathi, Associate Professor, MIMT

For BCA VIth Semester

Resource Person

Dr. Himanshu Rastogi
Associate Professor, MIMT



Syllabus

Cloud Computing

Duration: 30hours

Module 1: Introduction to Cloud Computing: Definition of Cloud – Cloud Characteristics- Evolution of Cloud Computing

Module 2: Cloud Deployment Models- Private, Public, Hybrid and Community Cloud, Cloud Service Models- SaaS (Software as a Service), PaaS (Platform as a Service), IaaS (Infrastructure as a Service)

Module 3: Cloud Computing Architecture – Introduction, Grid Framework and Architecture, Challenges of Grid Computing, Key Design Aspects of Cloud Architecture on Basis of Load Balancing, On the Basis of Disk Provisioning, On the basis of Storage Management, On the Basis of Service Relocation

Module 4: Cloud Data Centers- Cloud Data Center Core Elements, Cloud Computing Applications, Cloud Service Providers

Module 5: Virtualization Introduction- Features -Advantages of Virtualization- V Migration- Virtualization Technology At Network, Virtualization Technology at Desktop and Application



Schedule

Duration:30hours			
Session	Content	Time	Date
1.	Introductionto CloudComputing: DefinitionofCloud	3:00-4:30 PM	14/03/23
2.	CloudCharacteristics	3:00-4:30 PM	15/03/23
3.	EvolutionofCloudComputing	3:00-4:30 PM	21/03/23
4.	CloudDeploymentModels- Private, Public	3:00-4:30 PM	22/03/23
5.	CloudDeployment Models-Hybrid, Community	3:00-4:30 PM	28/03/23
6.	CloudServiceModels- SAAS, PAAS, IAAS	3:00-4:30 PM	29/03/23
7.	CloudComputingArchitecture–Introduction	3:00-4:30 PM	04/04/23
8.	GridFrameworkandArchitecture	3:00-4:30 PM	05/04/23
9.	ChallengesofGridComputing	3:00-4:30 PM	11/04/23
10.	KeyDesignAspectsofCloudArchitectureonBasisofLoadBalancing	3:00-4:30 PM	12/04/23
11.	OntheBasisofDiskProvisioning,OnthebasisofStorage Management, Onthe BasisofService Relocation	3:00-4:30 PM	18/04/23
12.	Cloud Data Centers& its core elements	3:00-4:30 PM	19/04/23
13.	Cloud Data Centers core elements	3:00-4:30 PM	25/04/23
14.	CloudComputingApplications	3:00-4:30 PM	26/04/23
15.	CloudServiceProviders	3:00-4:30 PM	02/05/23
16.	VirtualizationIntroduction	3:00-4:30 PM	03/05/23
17.	Features-Advantagesof Virtualization	3:00-4:30 PM	09/05/23
18.	Migration-VirtualizationTechnologyAtNetwork	3:00-4:30 PM	10/05/23
19.	VirtualizationTechnologyatDesktopandApplication	3:00-4:30 PM	16/05/23
20.	Revision	3:00-4:30 PM	17/05/23



	Report
Name of Activity	Cloud Computing
Date	14 th March 2023 to 17 th May 2023
Venue	BCA Classroom
Organized by	Computer Applications Department
Resource person	Dr. Himanshu Rastogi, Associate Professor, MIMT
Beneficiaries	BCA III year (22 students)
Convener	Mr. Abhay N Tripathi, Associate Professor, MIMT
Objective	This course's goal is to give students a thorough understanding of cloud computing principles, technologies, architecture, and applications by introducing and investigating cutting-edge cloud computing basic problems, technologies, applications, and implementations.
Content	<p>Cloud Computing add-on certification course was organized by Mangalmai Institute of Management and Technology with the help of IQAC. The term "cloud computing" refers to the availability of computer system resources, particularly data storage, on demand.</p> <p>Day1: The introduction of cloud computing signaled the beginning of the session.</p> <p>Day2: Students learned about cloud properties in this lesson.</p> <p>Day3: The resource person talks about how cloud computing has changed in this session.</p> <p>Day4: The cloud deployment approach is introduced and also its types public and private deployment model.</p> <p>Day5: The resource person in this session presented the Hybrid & community approach of cloud deployment.</p> <p>Day6: The cloud service models are discussed in this session that is SAAS, PAAS, IAAS.</p> <p>Day7: The architecture for cloud computing is introduced.</p> <p>Day8: The Resource Person discussed grid framework.</p> <p>Day9. In this session, challenges of Grid Computing are discussed.</p> <p>Day 10: On the basis of load balancing, I introduced the essential design features of cloud architecture here.</p> <p>Day11: Here, I gave a lesson on disc basics. Provisioning, On the basis of storage management.</p> <p>Day 12: The resource person talks about service relocation in this session.</p> <p>Day13: cloud data centers are covered in class.</p> <p>Day14: The resource person talked about cloud computing applications.</p> <p>Day15: Cloud service providers were the topic of this session.</p> <p>Day16: This session included an introduction to virtualization.</p> <p>Day17: This discussion covered the benefits and features of virtualization.</p> <p>Day18: The resource person talked about Migration-Virtualization Technology At Network</p> <p>Day19: At Desktop and Applications, the expert resource provided classes on virtualization technologies.</p> <p>Day20: Cloud Service Providers is the final lecture topic in the course.</p>



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Outcome of Activity	Students were aware of the necessary theoretical underpinnings for cloud platforms for computing and storage. They learned about various techniques and tools for creating apps that can be made available through cloud computing platforms. The students were able to create cloud infrastructures using IaaS software and create cloud apps using PaaS software.
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Certificate Template:

	<p>MANGALMAY INSTITUTE OF MANAGEMENT TECHNOLOGY Gr. NOIDA</p>	
<p>CERTIFICATE OF COURSE COMPLETION</p>		
<p>This is to certified the ANKIT KUMAR student of BCA (Batch: 2020-23) has successfully completed 30 Hours course on “Cloud Computing” from 14-March-2023 to 17-May-2023</p>		
<p>PRINCIPAL Mangalmay Institute of Management & Technology</p>	<p>CONVENER Mangalmay Institute of Management Technology</p>	

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standard cloud computing deployment object

c.) Cloud computing requires some standard protocols d.) None of the mentioned

14) All cloud computing applications suffer from the inherent _____ that is intrinsic in their WAN connectivity.

a.) noise b.) propagation
c.) latency d.) all of the mentioned

15) Which of the following is the correct statement?

a.) Cloud computing presents new opportunities to users and developers b.) Service Level Agreements (SLAs) is small aspect of cloud computing
c.) Cloud computing does not have impact on software licensing d.) All of the mentioned

-----For Departmental use only-----

Max. Marks: 15

Marks Obtained: 14

Name of Evaluator:

Sign.

Dr. Himanshu Rastogi



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Max. Marks: 15

Marks Obtained: 12

Name of Evaluator:

Dr. Himanshu Katoji

Sign.



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Marks Obtained: 13

Name of Evaluator:

Dr. Himanshu Rastogi

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