Theory Paper

A VAN			THE PROPERTY OF THE	A Introduction		
Prog	gram: Degree	Class:		Year: III	Session	on: 2023-24
-	T			Subject: BCA		
1	Course Coo		S3-B0	CAB2T		
2	Course Title Course Type (Core Course/ Discipline Specific Elective/Elective/Generic Elective/Vocational/)		,	Cloud Computing		
3				MINOR		
4	Pre-requisite (if any)			and the second second		
5	Course Learning outcomes (CLO)		be a 1 2 2 3 3	On successful completion of this course, the students will be able to: 1. Learn fundamentals of cloud computing 2. Understand cloud architecture, types and services. 3. Apply concepts of cloud computing in real applications 4. Gain deep insight of security in cloud computing 5. Have knowledge of market Based management of Clouds		
6	Credit Valu			of Clouds 6		
7	Total Mark		Mov	. Marks: 30 + 70		sing Marks:35
	T Ottal I I III I		-2-3-30g	ontent of the Cou		
Total No. of Lectures- 90 Tutorials- L-T-P: Unit Topics				general grant and an arrangement	No. of Lectures (1 Hour Each)	
T Solve		Cloud Computing Fundamental: Cloud Computing definition, private, public and hybrid cloud. Cloud types; IaaS, PaaS, SaaS. Benefits and challenges of cloud computing, public vs private clouds			18	
п		Basics Of Service Management in Cloud Computing, Data Management in Cloud Computing. Cloud Computing Architecture: Cloud Reference Model, Layer and Types of Clouds, Architectural design of Compute and Storage Clouds			18	
Overview Of c Fundamental conc desktop and virtualization in		cloud ncepts o applio n enab	loud management &Virtualization: epts of compute ,storage, networking, application virtualization,role of enabling the cloud Virtualization tualization, Block and file level storage		18	
IV		Cloud Security: Cloud Information security fundamentals, Cloud security services, Design principles, Secure Cloud Software Requirements, Policy Implementation, Cloud Computing Security Challenges,		18		

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	Virtualization security Management, Cloud Computing Security Architecture	
V	Market Based Management of Clouds, Federated Clouds/Inter Cloud: Characterization & Definition, Cloud Federation Stack, Third Party Cloud Services. Case study: Google App Engine, Microsoft Azure, Hadoop, Amazon, Aneka	

Keywords/Tags:

Part C-Learning Resources

Text Books, Reference Books, Other resources

Suggested Readings:

- A. Srinivasan, J.Suresh, Cloud Computing A Practical approach for learning and implementation, Pearson India, [ISBN-978131776513]
- 2. GautamShroff, Enterprise Cloud Computing Technology Architecture Applications [ISBN: 978-0521137355]
- 3. Kumar Saurabh "Cloud Computing insights in to New-Era Infrastructure", Wiley India,2011
- 4. Dimitris N. Chorafas, Cloud Computing Strategies [ISBN: 1439834539]
- 5. Buyya, Selvi, Mastering Cloud Computing, TMH Pub
- 6. Krutz, Vnes, Cloud Security, Wiley Pub
- 7. मध्य प्रदेश हिन्दी ग्रंथ अकादमी की पुस्तकें।
- 2. Suggestive digital platforms/ web links
- 1. https://onlinecourses.nptel.ac.in/noc22 cs20/preview
- 2. https://nptel.ac.in/courses/106105223
- 3. https://nptel.ac.in/courses/106104182
- 4. https://www.tutorialspoint.com/cloud_computing/index.htm
- 5. https://www.classcentral.com/course/swayam-cloud-computing-10027

Suggested equivalent online courses:

- 1. https://www.mygreatlearning.com/cloud_iot/certification
- 2. https://www.intellipaat.com/cloud-computing/certification
- 3. https://www.edureka.co/
- 4. https://www.coursera.org/browse/information-technology/cloud-computing

Part D-Assessment and Evaluation

30

Suggested Continuous Evaluation Methods:

Maximum Marks: 100

Continuous Comprehensive Evaluation (CCE): 30 Marks University Exam (UE):70 Marks

Internal Assessment : Continuous Class Test Assignment/Presentation Comprehensive Evaluation (CCE)

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Any remarks/ suggestions:		
Time: 03.00 Hours	Section (C): Long Questions	
University Exam Section	Section (B): Short Questions	70
External Assessment :	Section(A): Very Short Questions	

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