

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited I NAAC with "A" Grade – 3.32 CGPA Recognized under 2(f) & 12(B) of UGC Act 1 Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Fradesh)

56

## DEPARTMENT OF INFORMATION TECHNOLOGY TEACHING PLAN

Course Code	Cou Tit		Semester	Branch	Contact Periods /Week	Academic Year	Date of commencemen of Semester
20IT6T02	CLOUD CO	MPUTING	VI -	IT.	6	2024-2025	18-11-2024
COURSE (	OUTCOMES						<b>\</b>
1	Illustrate the computing. (I		oncepts, key	technologi	es, strengtl	ns and limit	tations of cloud
2	Discover the	enabling	technologies th	at help in t	he develop	ment of cloud	l. (K4)
3	Develop the a service and de	ability to elivery m	understand and odels. (K3)	d use the ar	chitecture of	of compute an	nd storage cloud
4	Summarize t security. (K2)		issues of clou	id comput	ing such a	s resource n	nanagement and
5	Identify the a		e technologies,	algorithm	s and appro	aches for imp	olementation and
UNIT	Out Comes / Bloom's Level	Topics No.		oics/ ivity	Tex Bool Refere	v/ ct	Delivery Method
		1.1	Introduction		T1	1	3
		1.2	Basics of clo	ud computi	ng T1	1	
	9 10	1.3	Definition of	cloud	T1	1	
	1.4	Evaluation of cloud computing		T1	1	Chalk & Board	
		1.5	Underlying parallel comp		T1	1	Power point
I	I CO-1	1.6	Underlying podistributed co		T1	1	presentations
	1 4 mg	1.7	Cloud charac		T1	1	Assignment
		1.8	Pron &cons o	f cloud	T1	1	
		1.9	Types of clou		ng T3	1	Test
		1.10	Services of cl computing	oud	Т3	1	
		1.11	On demand p	rovisioning	т3	1	
Content bey	ond syllabus	1.12	Cloud compu	ting service	es T3	1	
1	with 1				To	otal 12	4
II		2.1	Cloud enabling Technologies		Т3	1	Chalk
11		2.2	Service orient architecture	ed	Т3	1	& Board

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v	CO-5	5.1	Cloud computing security architecture and design	Т3	1	Chalk & Board
				Total	12	
	7.	4.12	Team (CSIRT) ,VM security recommendation	Т3	1	
	S.	4.11	incident response	Т3	1	_
	6		Computer security	mr.		
		4.9	Security standards		×	Test
	- Sa	4.8	IAM			
IV	CO – 4	4.6	security Security governance	ш 7		Assignment
			Software as a service		3	presentation
	Hr. pur	4.5	Cloud Security challenges		- A	Power point
	**	4.4	Computer security	Т3	1	Donu
		4.3	Policy types	Т3	1	& Board
	969	4.2	Security policy implementation	Т3	1	Chalk
		4.1	Cloud computing security challenges	Т3	1	
	1.5	1		Total	09	
Content beyo	nd syllabus	3.9	Cloud computing risks	Т3	1	
		3.8	Cloud service provider risks	Т3	1	Test
	*	3.7	Cloud access control issues	Т3	1	Assignment
		3.6	Common vulnerabilities	Т3	1	
Ш	CO - 3	3.5	Common threats	Т3	1	presentations
1.3		3.4	Privacy and compliance risks	Т3	1	Power point
		3.3	The CIA Triad	T3	1 /	Board
		3.2	Cloud computing issues	Т3	1	- &
		3.1	Cloud computing risks	Т3	1	Chalk
	1		testing	Total	11	
Content beyon	nd syllabus	2.11	Secure cloud software testing	Т3	1	* * *
		2.10	Cloud testing	T3	1	
		2.9	Cloud disaster recovery	Т3	1	
1	12 1	2.8	Cloud penetration	Т3	1 *	
		2.7	Secure cloud software testing	тз	1	-
		2.6	implementation Decomposition of cloud security	Т3	1	Test

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6.	C	Ey	
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		5.2	Architectural consideration	Т3	1	Power point
-	399	5.3	Trusted cloud computing	Т3	1	presentations
		5.4	Secure excecution environemnts and communication	Т3	1	Assignment
=		5.5	Identity management and access control	Т3	1	1
		5.6	Autonomic security	T3	1	
		5.7	Introduction to design pattern			
		5.8	Security patterns for cloud computing	Т3	1	
Content beyond	d syllabus	5.9	Identity management and access control	Т3	1	
- Alleria - January - Janu				Total	9 "	
		CI	JMULATIVE PROPOSED	PERIODS	52	
Text Books:					*	
S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION					
1 P	1. Kai Hwang, Geoffrey C. Fox, Jack G. Dongarra, Distributed and Cloud security From Parallel Processing to the Internet of Things, Morgan KaufmannPublishers.					
2 F	Rittinghouse,	John W	. and James F. Ransome, Clou urity, CRCPress.	id security: Ii	mpleme	entation,
Reference Book	s:				,	
S No.	UTHORS, I	воок т	ITLE, EDITION, PUBLISHER	R, YEAR OF	PUBL	CATION
S	ecurity Tata	Mcgraw	istian Vecchiola, S. Thamarai Hill			
	Approach, Ta	ata McGi	Velte, Robert Elsenpeter, ClorawHill			
3 (	George Rees	e, Cloud e in the C	Application Architectures: Bu Cloud: Transactional Systems f	uilding Applic for EC2 and I	eations a Beyond	and (Theory in
Web Details:					9	
					19	
1 1	nttps://www	.javatpo	int.com/ cloud -computing - rgeeks.org/cloud computing	tutorial	1/2	

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Name	Signature with Date
Ms. U Jenny Grace	U. Jeny > 18 lu
Mr.Ch R K Rajo	fort phila
Dr. RVVSV Prasad	RIKURISA
	Ms. U Jenny Grace Mr.Ch R K Rajo

Principal

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Signature

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Principal