

## COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

# DEPARTMENT OF INFORMATION TECHNOLOGY TEACHING PLAN

Course Code	Cour Titl		Semester	Branch	Contact Periods /Week	Ac	eademic Year	Date of commencement of Semester
16IT7T03	CLOUD COMPUTING		VII	IT	6	6 202	21-2022	04-10-2021
COURSE (	OUTCOMES	9			-			
1	Explain basic	s of cloud	d computing te	chnology				
2	Demonstrate	the conce	pt of virtualiza	tion and th	e develop	ment o	of Cloud	Computing
3			services and se					
4			d scalability, se			nanage	ement	
5			Application Pl					
6			oud platforms		lication			
UNIT	Out Comes / Bloom's Level	Topics No.	Тој	oics/ ivity	T Bo	ext ook/ crence	Conta ct Hour	Delivery Method
		1.1	Introduction	to Cloud	7	Γ2	1	
	CO-1	1.2	Cloud Comp Glance	uting at a	]	Γ2	1	Chalk &
		1.3	The Vision o Computing	f Cloud	3	Γ2	1	Board
		1.4	Defining a C		1	Γ2	1	Power point presentations
$\mathbf{I}$		1.5	A Closer Loc		]	Γ2	1	
		1.6	Cloud Compo Reference Mo		]	Γ2	1	Assignment
		1.7	Characteristic Benefits	es and	1	<b>72</b>	1	Test
		1.8	Challenges A			72	1	
		1.9	Historical De	velopments		<u></u>	1	
	i		<b>X7</b> . 4 1. 4.		<del>- 1</del>	Total	09	
	*	2.1	Virtualization Introduction		T	1	1	Chalk
		2.2	Characteristic Virtualized E		t T	<b>'1</b>	1	& Board
			Classification Virtualization	of	T	1	1	
		2.4	Virtualization computing			1	1	Power point presentations
		2.5	Pros and Con	s of	T	1	1	



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	*		Virtualization			Assignment
		2.6	Technology Examples- VMware	T1	1	Test
- Ta	* *	2.7	Microsoft Hyper-V	T1	1	
II	CO-2	2.8	Multi thread programming models	<b>T1</b>	1	
		2.9	Before the Move into the Cloud: Know Your Software Licenses	Т1	1	
		2.10	The Shift to a Cloud Cost Model	T1	1	
		2.11	Service Levels for Cloud Applications	T1	1	
			rippireatiens	Total	11	
		3.1	Cloud Computing Architecture: Introduction	Т1	1	
		3.2	Architecture	T1	1	Chalk
	CO-3	3.3	Infrastructure / Hardware as a Service	T1	1	& Board
n i i		3.4	Platform as a Service	T1	1	1
TIT		3.5	Software as a Service, Types of Clouds	T1	1	Power point presentations
Ш		3.6	Public Clouds, Private Clouds	T1	1	Assignment
		3.7	Hybrid Clouds	T1	1	
		3.8	Community Clouds	T1	1	Test
		3.9	Economics of the Cloud	T1	1	
		3.10	Open Challenges	<b>T1</b>	1	
		3.11	Cloud Interoperability and Standards	T1	1	
Course be	yond syllabus	3.12	Scalability and Fault Tolerance	T1,T3	1	
				Total	12	
	V CO-4	4.1	Defining the Clouds for Enterprise: Introduction	<b>T1</b>	1	Chalk &
		4.2	Storage as a service	T1	1	Board
		4.3	Database as a service	T1	1	Power point
**7		4.4	Process as a service	T1	1	presentations
IV		4.5	Information as a service	T1	1	P. Dominions
		4.6	Integration as a service and Testing as a service	T1	1	Assignment
		4.7	Scaling cloud infrastructure -Capacity	T1	1	Test



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			Planning			
		4.8	Cloud Scale	T1	1	
		4.9	<b>Disaster Recovery:</b> Introduction	T1	1	
		4.10	Disaster Recovery Planning	T1	1	
		4.11	Disasters in the Cloud	T1	1	
		4.12	Disaster Management	T1	1	
				Total	12	- 1 × 8
		5.1	Aneka: Cloud Application Platform Framework Overview	T1, R1	1	
		5.2	Anatomy of the Aneka Container	T1, R1	1	
		5.3	From the Ground Up: Platform Abstraction Layer	T1, R1	1	Chalk & Board
	CO-5	5.4	Fabric Services, Foundation Services, Application Services	T1, R1	1	Power point presentations
V		5.5	Building Aneka Clouds	T1, R1	1	
		5.6	Infrastructure Organization, Logical Organization	T1, R1	1	Assignment Test
		5.7	Private Cloud Deployment Mode, Public Cloud Deployment Mode ,Hybrid Cloud Deployment Mode	T1, R1	1	Test
		5.8	Cloud Programming and Management	T1, R1	1	
Course bey	ond syllabus	5.9	Aneka SDK, Management Tools	T1, R1	1	
	. 5 /			Total	9	0 8 2 3
		5.1	Cloud Applications: Scientific Applications – Health care	T1, R1	1	Chalk &
		5.2	Geo science and Biology	T1, R1	1	Board
VI	CO-6	5.3	Business and Consumer Applications- CRM and ERP	T1, R1	1	
		5.4	Social Networking, Media Applications and Multiplayer Online Gaming	T1, R1	1	Power point presentations
	= = = = = = = = = = = = = = = = = = =	5.5	Cloud Platforms in	T1, R1	1	Assignment



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			Industry			
		5.6	Amazon Web Services- Compute Services	T1, R1	1	Test
		5.7	Storage Services, Communication Services and Additional Services	T1, R1	1	
		5.8	Google App Engine- Architecture and Core Concepts	T1, R1	1	
		5.9	Application Life-Cycle	T1, R1	1	
		5.10	cost model	T1, R1	1	
		5.11	Microsoft Azure- Azure Core Concepts	T1, R1	1	
		5.12	SQL Azure	T1, R1	1	
	9 2			Total	12	
		CU	MULATIVE PROPOSEI	PERIODS	65	
Text Book						
S.No.	AUTHORS, BO	OK TIT	LE, EDITION, PUBLISHE	ER, YEAR OF	PUBLIC	ATION
1	Rajkumar Buy Computing",	ya, Chris	stian Vecchiola, S.Thamara	i Selvi, "Maste	ering Clo	ud
2			puting", PHI Learning Priv	rate Limited 20	)15	
Reference			g ,	ate Elimieu, 20	713.	
S.No.	AUTHORS, BO	OK TIT	LE, EDITION, PUBLISHE	CR. YEAR OF	PUBLIC	ATION
1	David S. Linthi	cum, Cl	oud Computing and SOA (m Pearson, 2010.	Convergence in	Your Er	nterprise, A
	Dr. Kumar Sau	rabh, Clo	oud Computing, 2nd Editio	n Wiley India	2012	
2		,	C	1 it is	, 2012.	
3	Micheal Miller	, Cloud	Computing – web based Annline –.Pearson Education	pplications that	t change	the way you
3	work and collab	, Cloud	Computing – web based And Inline – Pearson Education	pplications that	t change	the way you
	work and collal	, Cloud porate Or	Computing – web based And Inline – Pearson Education  t.com/cloud-computing-a	· · ·	t change	the way you

	Name	Signature with Date
i. Faculty	Mrs. V Alekhya	A =1.110121
ii. Module Coordinator	Dr. RVVSV Prasad	Dulin Dia 7
iii. Programme Coordinator	Dr. RVVSV Prasad	Purchas a Holz

Principal

4/10/21