## 20IT6301-CLOUD COMPUTING

Course Category: Program Core Credits: 3															
Course Typ	Theory							Lecture-Tutorial-Practice:					e:	2-0-2	
Prerequisit	Computer networks							Continuous Evaluation:						30	
Trerequisites.			Computer networks						Semester end Evaluation:					1:	70
							<u> </u>	Total Marks:						100	
	Upon successful completion of the course, the student will be able to:														
*	CO1	Interpret the concepts of cloud computing and its standards.													
Course	CO2	Analyze cloud models, security and storage accessibility in different cloud													
Outcomes	CO2	ecosystems													
	CO3 Illustrate cloud services offered by various cloud vendors for an en								ın en	terprise					
	CO4 Implement cloud environment for various real time applications.							ns.							
Contribut		PO1	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PSC	
ion of	CO1	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Course	CO2	1	2									2		1	1
Outcomes towards	CO3		1			3						2		2	1
achievem	233		-									† <del></del>			1
ent of															
Program															
Outcomes	CO4		2			2								3	
(1-Low, 2-															
Medium,															
3- High)															
	UNIT I		4	. D	•	C1	1 0			<b>3</b>	_•	C.	1 1	<b>C</b>	
	<b>Cloud Computing Basics:</b> Cloud Computing Overview – Cloud Components, Infrastructure, Cloud Services, and Applications – Storage, Database services.														
															nputing,
	_	_				_	_			ou (	Juli (	450	Jiouu	Coi	npating,
	Benefits, Limitations and Security Concerns.  Hardware and Infrastructure: Clients, Security, Network.														
	UNIT I								•						
	Accessi	ing th	ne C	loud:	Plat	form	s, W	eb .	Appli	icatio	ns,	Web	API	s, ar	d Web
	Browse			-		~1			_					~ •	~ 1
Course	<b>Cloud Storage:</b> Overview, Cloud Storage Providers – Amazon S3, Google BigtableDatastore, MobileMe, LiveMesh.														
Content	_								o So	mioo.					
	Standards: Application, Client, Infrastructure, Service.  UNIT III:														
	Software as a service: Overview, Advantages, Driving Forces, Company														
	Offerings – Intuit, Google, Microsoft														
	Software plus services: Overview, Pros, Cons, Vendors, Mobile Device														
	Integration, Providers-Adobe AIR, Microsoft Online														
	Developing Applications: Google, Microsoft														
	UNIT IV:														
	Local clouds and Thin Clients: Virtualization in an organization, S Solutions- Microsoft HyperV, VMWare,						Server								
	Solution	ns- Mi	croso	п Нур	berv,	VMV	w are	,							

	Cloud Applications: Scientific applications: Healthcare, Business and consumer							
	applications: CRM, Salesforce.com, Productivity: Drop box and icloud, Social							
	Networking: Facebook.							
	Cloud Security Mechanisms - Encryption, Hashing, Digital Signature, IAM							
	Text Book(s):							
	[1]. Velte T. Antony, Velte J. Toby., Elsenpeter Robert, "Cloud Computing: A							
	Practical Approach", Tata McGraw-Hill, 2010							
	[2] Rajkumar Buyya, Christian Vecchiola, S Tamarai Selvi "Mastering							
Text	Cloud Computing Foundations And Applications Programming",							
books and	McGraw Hill Education, 2016.							
Reference	[3] Thomas Erl and RicardoPuttini Cloud Computing-Concepts, Technology							
books	And Architecture, Pearson, 2014.							
	Reference Books:							
	[1]. Barrie Sosinsky, "Cloud Computing Bible", Wiley Publishers, 2012							
	[2]. Miller Michael, "Cloud Computing: Web-Based Applications That Change							
	the Way You Work and Collaborate Online", Que Publishing, 2008.							
	[1].John R Williams, Abel Sanchez, MIT Professional Education, "Cloud							
	DevOps", 2022							
	https://professional.mit.edu/course-catalog/cloud-devops-continuous-							
E-	transformation							
resources	[2]. Courseera, "Cloud Application Security", 2021,							
and other	https://www.mooc-list.com/course/cloud-application-security-coursera							
digital	[3].Suresh S, Udemy, "Server Virtualization", 2021							
material	https://www.udemy.com/tutorial/cloud-computing-the-technical-							
	essentials/basics-of-virtualization/							
	[4] Prof.SowmyaKantiGhosh,IITKharagpur, "Cloud Computing"2022							
	https://nptel.ac.in/courses/106/105/106105167/							

Designation	Name in Capitals	Signature with Date
Course Coordinator	M.RAMESH	
Module Coordinator	Dr.S.SUHASINI	
Program Coordinator	Dr.G.KALYANI	
Head of the Department	Dr.M.SUNEETHA	