

Swarnandhra College of Engineering & Technology

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Recognized by AICTE, permanently affiliated to JNTUK Kakinada Accredited by NAAC with 'A' Grade (2nd Cycle)

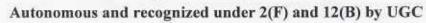
Seetharamapurm, Narsapur - 530280 (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY TEACHING PLAN

Course Code	100000	ourse Fitle	Semester	Branch	Contact Periods /V	Veek A	Year Year	Date of commencement
20IT6T02	THE OWNER OF THE OWNER.	RNET OF	VI	IT	5	2	2024-25	18-11-2024
COURSE	OUTCOM	IES	X	W	**		N .	
1	Outline t	he concer	ots of IoT and	apply IoT	to different applicati	ions. (K2) "	
2	Utilizatio	on of Dev	ices, Gateway	s and Data	Management in IoT	. (K3)	7	
3	Analyze	and evalu	ate protocols	used in Io	Г. (К4)			
4	Identify l	how IoT d	liffers from tra	aditional d	lata collection system	ns. (K3)		
5	Illustrate	the role o	of big data, clo	oud compu	ting and data analyti	ics in a ty	pical IoT	system. (K2)
UNIT	Out Comes / Bloom's Level	Topics No.		Topic Activi	es/	Text Book/ Ref	Contact Hou	Delivery Method
			things		of Internet of		3	
		1.1	An Overview	w of Intern	et of things	T2	1	27
		1.2	Internet of T		nnology	T2	1	Chalk
		1.3	Behind IoTs			T2	2	&
1	CO-1	1.4	Sources of th	No. of the Control of		T2	1	Board
		1.5	M2M Comm			T2	1	Power point
		1.6	Examples of Design Princ Devices	The second secon	Connected	T2 T2	2 2	presentations
		1.8		nectivity Pri	inciples and Internet	Т2	1	Assignment Test
-		1.9	Application L FTP, Telnet.	ayer Proto	ocols: HTTP, HTTPS,	T1,T2	2	
Content beyo	nd syllabus	1.9	Domain - Sp	ecific IoT	S	R1	1	NPTEL Vide
						Total	14	
п	CO-2			IOT	PHOCESS			
**	00-2	2.1	Business Mo in the Interne		Business Processes gs	T1,T2	2	Chalk

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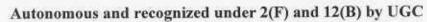


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	-	2.2	IoT/M2M systems layers and designs standardizations	T1,T2	2	& Board		
		2.3	Modified OSI Stack for the IoT/M2M Systems	stems T1 2	Power point presentations			
		2.4	ETSI M2Mdomains and High-level	T1,T2	2	Assignment Test		
		2.5	Data Enrichment and Consolidation and Device Management Gateway Ease of designing and affordability	T1,T2	2	lest		
Content beyo	ond syllabus	2.6	IoT Supported Hardware platforms	R2	1	Video Lecture		
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			Unit-3: Design Principles for the Web Connectivity					
		3.1	Design Principles for the Web Connectivity for connected-Devices	T1,T2	2	Chalk &		
Ш	CO-3	3.2	Web Communication protocols for Connected Devices	T1,T2	2	Board Power point presentations		
		3.3	Message Communication protocols for Connected Devices	T1,T2	3			
		3.4	Web Connectivity for connected- Devices.	T1,T2	2	Assignment Test		
Content beyo	ond syllabus	3.5	APIs/Packages and Web Services	R1	1 "	Experimenta Learning		
			And 1	Total	10			
			Unit-4: Data Acquiring for IoT			201		
		4.1	Data Acquiring	T1,T2	1			
		4.2	Organizing and Analytics in IoT/M2M	T1,T2	1			
		4.3	Applications /Services /Business Processes	T1,T2	1	Chalk & Board		
IV	CO-4	4.4	IOT/M2M Data Acquiring and Storage	equiring and Storage T1,T2 1	1	Doura		
		4.5	Business Models for Business Processes in the Internet Of Things	T1,T2	Power po	Power point presentations		
		4.	4.6	4.6	Organizing Data	T1,T2	1	- 0.5
		4.7 Transactions T1,T2	T1,T2	2 '	Assignment			
		4.8	Business Processes	T1,T2	2	Test		
-		4.9	Integration and Enterprise Systems.	T1,T2	1			
Content beyo	ond syllabus	4.10	IoT Design Methodology	T2	4.48	NPTEL Vide		
			Terror was a second	Total	13			
			Unit-5: Data Collection			No.		
V	CO - 5	5.1	Data Collection, Storage and Computing Using a Cloud Platform for IoT/M2MApplications/Services	T1,T2,	2	Chalk & & Board		

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		5.2	Storage and Computing Using cloud platform Everything as a service, Evaluation of Candidate Rules, Applications of Association Rules	T2,R3	2	Power point presentations Assignment Test
		5.3	Cloud Service Models, IOT cloud-based services using the Xively(Pachube/COSM)	T2,R3	2	
		5.4	Nimbits and other platforms Sensor	T1,T2, R3	2	
		5.5	Actuator, Radio Frequency Identification	T1,T2	1	
		5.6	Wireless, Sensor Network Technology	T1,T2	1	
		5.7	Sensors Technology, Sensing the World	T1,T2	1	
Content beyo	ond syllabus	5.8	Connecting microcontroller with mobile devices.	T1, R1	1	Experimenta Learning
				Total	12	
			Cumulative Propose	d Periods	60	
Text Book					60	
Text Book S.No.	AUTHOR		OK TITLE, EDITION, PUBLISHER, YEAR O	F PUBLIC	60 ATIŌN	
	AUTHOR Rajkamal	, Intern		F PUBLIC	60 ATIŌN	
S.No.	AUTHOR Rajkamal Higher Ed	, Intern	ok TITLE, EDITION, PUBLISHER, YEAR Of Things: Architecture, Design Principle	F PUBLIC es and App	60 ATIŌN	
S.No.	AUTHOR Rajkamal Higher Ed A.Bahgya	, Intern	ok TITLE, EDITION, PUBLISHER, YEAR Of Things: Architecture, Design Principle, 2021, 3rd Edition.	F PUBLIC es and App	60 ATIŌN	
S.No. 1 2	AUTHOR Rajkamal Higher Ed A.Bahgya	, Internducation and V.	ok TITLE, EDITION, PUBLISHER, YEAR Of Things: Architecture, Design Principle, 2021, 3rd Edition.	F PUBLIC es and App	ATION blication	ns, McGraw Hi
S.No. 1 2 Reference	AUTHOR Rajkamal Higher Ed A.Bahgya Books: AUTHOR	, Intern ducation a and V.	et of Things: Architecture, Design Principle, 2021, 3rd Edition. Madisetti, Internet of Things, University Pres	oF PUBLIC es and App s, 2015	ATION	ns, McGraw Hi
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		Name	Signature with Date	
i	Faculty	Mrs. R. Uma Aruna Devi	R. CAIDS	
ii	Module Coordinator	Dr. RVVSV Prasad	Rosonacad	
iii	Programme Coordinator	Dr. RVVSV Prasad	Richard	

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