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Swarnandhra College of Engineering & Technology

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Seetharamapurm, Narsapur - 530280 (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY TEACHING PLAN

Course Code		ourse Title	Semester	Branch	Contact Peri	iods	Academic Year	Comm	
20CC5T01	1000000	RNET O	V V	CSE-CS	6		2024-25	03-024	
COURSE	OUTCON	1ES					7		
1	Outline the concepts of IoT and apply IoT to different applications. (K2)								
2 3	Utilization of Devices, Gateways and Data Management in IoT. (K3)								
	Analyze and evaluate protocols used in IoT. (K4)								
4	Identify	how IoT	differs from tra	ditional data	collection syste	ms. (K3)	4		
5	Illustrate	the role	of big data, clo	ud computing	and data analy	ties in a t	ypical loT	system. (K	
UNIT	Out Comes / Bloom's Level	Topics No.		Topics/ Activity		Text Book/ Ref	Contact Hous	Delive Metho	
	CO-1		Unit-1: An O things				*		
		1.1	An Overview			T2	1 "		
		1.2	Internet of Th	ings Technolo	ogy	T2	1	Chalk	
		1.3	Behind IoTs			T2	2 '	& &	
I		1.4	Sources of the			T2	1	Board	
		1.5	M2M Communication			T2	1		
- 11		1.6	Examples of I			T2	2	Power po	
		1.7	Design Princip Devices	ples For Conn	ected	T2	2	presentati	
		1.8	Internet Conne connectivity	ctivity Principle	es and Internet	T2	1	Assignme Test	
		1.9	Application Lay FTP, Telnet.	yer Protocols:	HTTP, HTTPS,	T1,T2	2		
Content beyond	l syllabus	1.9	Domain - Spec	cific IoTs		R1	1	NPTEL V	
						Total	14		
п			Unit-2: Busin Processes		= -				
n	20-2	2.1	Business Mode in the Internet		ss Processes	T1,T2	2	Chalk	

Signature with Date

R. OAD John

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				1 ,		acsinj	
			2.2	standardizations	T1,T2	2	& Board
			2.3	Systems	T1	2	Power point
E comm _{ient}			2.4	capabilities	T1,T2	2	- presentations Assignment
03-0:4			2.5	Data Enrichment and Consolidation and Device Management Gateway Ease of designing and affordability	T1,T2	2	Test
	amazent bey	and syllabus	2.6	IoT Supported Hardware platforms	R2	1	Video Lecture
-	-		1	1	Total	11	Video Decidie
1/				Unit-3: Design Principles for the We Connectivity	b	4	
1			3.1	Design Principles for the Web Connectivity for connected-Devices	T1,T2	2	Chalk &
system. (K	311	CO-3	3.2	Web Communication protocols for Connected Devices	T1,T2	2	Board
Delive		İ	3.3	Message Communication protocols for Connected Devices	T1,T2	3	Power point presentations
Meth			3.4	Web Connectivity for connected- Devices.	T1,T2	2	Assignment Test
	artent beyo	md syllabus	3.5	APIs/Packages and Web Services	R1	1	Experimental Learning
		T -		TI II I S	Total	10	
Chalk		1	4.1	Unit-4: Data Acquiring for IoT		9	
&		1	4.1	Data Acquiring	T1,T2	1	
Board		1	4.2	Organizing and Analytics in IoT/M2M	T1,T2	1 "	
Power poin			4.3	Applications /Services /Business Processes	T1,T2	1	Chalk &
presentation	27	CO-4	4.4	IOT/M2M Data Acquiring and Storage	T1,T2	1 "	Board
Assignment			4.5	Business Models for Business Processes in the Internet Of Things	T1,T2	2	Power point presentations
Test		-	4.6	Organizing Data	T1,T2	1 *	presentations
. 031		-	4.7	Transactions	T1,T2	2	Assignment
			4.8	Business Processes	T1,T2	2	Test
NPTEL Vi			4.9	Integration and Enterprise Systems.	T1,T2		
TIEL VI	ment beyon	d syllabus	4.10	IoT Design Methodology	T2	1	NIDOPPET Y
				C.	Total	13	NPTEL Video
		L		Unit-5: Data Collection	Iutai	13	T
Chalk	v	CC - 5	5.1	Data Collection, Storage and Computing Using a Cloud Platform for IoT/M2MApplications/Services	T1,T2,	2	Chalk & Board

	Unit / Item No.	Topic	Reference	No. of periods	terr %
100					
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	WHOWLEDGE DE	Swarnandhra College of Engineerin		<u> </u>	
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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	i
			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 "	
Cor	itent beyon	d syllabus	5.8	Connecting microcontroller with mobile devices.	T1, R1	1	Experim Learni
-					Total	12	-
	17.1			Cumulative Propose		60	
t							
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1	1.67	19.3					
	***	19.5					
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npleted) TEACHING PLAN Name of Staff Member: R. Uma Agruma Dur 24 Department: Course & Branch B-Tech & CSE-CS 124 Semester: V Section Subject Tot Code 20 ce 5 70) 3 6 2024 Last working day 11 10 2024 With effect from 6 9 15 No. of Classes 69 No. of Weeks Text Books: 1. Text Books: AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION S.No. Rajkamal, Internet of Things: Architecture, Design Principles and Applications, McGraw Hill Highe 1 Education. A.Bahgya and V.Madisetti, Internet of Things, University Press, 2015 2 Reference Books: aluation is AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION S.No. Adrian McEwen and Hakim Cassimally, Designing the Internet of Things, Wiley. 1 CunoPfister, Getting Started with the Internet of Things Oreilly . absent on a for absent. Web Details: https://www.geeksforgeeks.org/introduction-to-internet-of-things-iot-set-1/ 2 columns in https://cloud.ardaino.cc/ Name Signature with Date Faculty Mrs. R. Uma Aruna Devi ROAD Module Coordinator AAR and Dr. RVVSV Prasad Programme Coordinator Rucipierd Dr. RVVSV Prasad teral entry

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