

SWARNANDHRA

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 Praglesh)

DEPARTMENT OF INFORMATION TECHNOLOGY TEACHING PLAN

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20AM7	/H()	BLOCK FECHNO	CHAIN	VII	CSE-DS	5	202	25-26	09-06-2025	
COUR	SE OUT	COMES								
1	Demonst	rate the b	lock chain l	pasics, Cryp	to currency					
2	To comp	are and c	ontrast the u	ise of differe	ent private v	s. public	block o	chain an	d use cases	
3										
4			vative Bit coin Block chain and scripts, Block chain Science on varies coi ssion Block chain and use cases – Hyper ledger, Corda				-			
5		e of Bloc							mation Systems	
UNIT	Out Comes / Bloom's Level	Topics No.		Topics/ Activity		В	Text ook/ erence	Conta Hour		
	Bever	1.1	Introductio	n, basic ideas	behind bloc	k T	1,T2	1		
	CO-1	1.2	how it is ch	nanging the la	indscape of	Т	1,T2	1	Chalk &	
		1.3	required	n to cryptogra		ots T	1,T2	1	Board	
		1.4		n or distribute			1,T2	1	Power point	
I		1.5		Cryptocurren		T	1,T2	1	presentation	
		1.6	Currency, (Cryptocurrent	су	T	1,T2	1	Assignment	
			1.7	How a Cry	ptocurrency v	vorks	T	1,T2	1	
			1.8	How a Cry	ptocurrency v	vorks	T	1,T2	1	Test
			1.9	Financial s	ervices		T	1,T2	1	
		1.10	Bitcoin pre	diction marke	ets	Т	1,T2	1		
							Total	10		
		2.1	Hashing, p	bublic key cr	yptosystem	is, T	1,R1	1	9	
	CO-2	2.2	0.1	bublic key cr		The second second	1,R1	1		
II		2.3	private vs cases,	public block	chain and	use T	2,R2	1	Chalk	
1		2.4	Hash Puzz			T	2,R2	1	& Board	
		2.5	Hash Puzz	les		T	2,R2	1		



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		2.6	Extensibility of Block chain concepts,	T2,R2	1	Power point
		2.7	Digital Identity verification,	T2,R2	1	presentation
		2.8	Block chain Neutrality,	T1,T2	1	Assignment
		2.9	Block chain Neutrality,	T1,T2	1	Assignment
	-			T1,T2	1	Test
		2.10	Digital art Block chain Environment	T1,T2	1	
	-	2.11		T1,T2	1	
		2.12	Block chain Environment	Total	12	
			Int. I DI I delegand corints	T1,T2	1	M
		3.1	Bitcoin Block chain and scripts	T1,T2	1	Chalk
III		3.2	Bitcoin Block chain and scripts	T1,T2	1	&
		3.3	Use cases of Bitcoin Blockchain			Board
		3.4	scripting language in micropayment, escrow etc	T1,T2	1	Power point
	CO - 3	3.5	scripting language in micropayment, escrow etc	T1,T2	1	presentation
		3.6	Downside of Bit coin mining	T1,T2	1	Assignment
		3.7	Block chain Science: Grid coin,	T1,T2	1	
		3.8	Folding coin	T1,T2	1	Test
		3.9	Block chain Genomics	T1,T2	1	
		3.10	Bit coin MOOCs.	T1,T2	1	
		3.10	Dit com Medes.	Total	10	
			Ethereum continued, IOTA, The real			
		4.1	need for mining, consensus, Byzantine Generals Problem, and Consensus as a distributed coordination problem, Coming to private or permissioned block chains, Introduction to Hyper ledger, Currency, Token, Campus coin, Coin drop as a strategy for Public adoption, Currency Multiplicity, Demurrage currency	T1,T2	1	_
IV	CO - 4	4.1	Generals Problem, and Consensus as a distributed coordination problem, Coming to private or permissioned block chains, Introduction to Hyper ledger, Currency, Token, Campus coin, Coin drop as a strategy for Public adoption, Currency Multiplicity, Demurrage currency Ethereum continued	T1,T2	1	& Board Power point
IV	CO - 4		Generals Problem, and Consensus as a distributed coordination problem, Coming to private or permissioned block chains, Introduction to Hyper ledger, Currency, Token, Campus coin, Coin drop as a strategy for Public adoption, Currency Multiplicity, Demurrage currency Ethereum continued IOTA, The real need for mining	T1,T2 T1,T2	1 1 1	& Board Power poin presentation
IV	CO - 4	4.2	Generals Problem, and Consensus as a distributed coordination problem, Coming to private or permissioned block chains, Introduction to Hyper ledger, Currency, Token, Campus coin, Coin drop as a strategy for Public adoption, Currency Multiplicity, Demurrage currency Ethereum continued	T1,T2		& Board Power poin presentation
IV	CO – 4	4.2	Generals Problem, and Consensus as a distributed coordination problem, Coming to private or permissioned block chains, Introduction to Hyper ledger, Currency, Token, Campus coin, Coin drop as a strategy for Public adoption, Currency Multiplicity, Demurrage currency Ethereum continued IOTA, The real need for mining IOTA, The real need for mining consensus	T1,T2 T1,T2	1	& Board Power point presentation Assignment
IV	CO - 4	4,2 4,3 4,4	Generals Problem, and Consensus as a distributed coordination problem, Coming to private or permissioned block chains, Introduction to Hyper ledger, Currency, Token, Campus coin, Coin drop as a strategy for Public adoption, Currency Multiplicity, Demurrage currency Ethereum continued IOTA, The real need for mining IOTA, The real need for mining consensus Byzantine Generals Problem, and Consensus as a distributed coordination problem	T1,T2 T1,T2 T1,T2	1 1	& Board Power point presentation
IV	CO - 4	4.2 4.3 4.4 4.5	Generals Problem, and Consensus as a distributed coordination problem, Coming to private or permissioned block chains, Introduction to Hyper ledger, Currency, Token, Campus coin, Coin drop as a strategy for Public adoption, Currency Multiplicity, Demurrage currency Ethereum continued IOTA, The real need for mining IOTA, The real need for mining consensus Byzantine Generals Problem, and Consensus as a distributed coordination	T1,T2 T1,T2 T1,T2 T1,T2	1 1 1	& Board Power point presentation Assignment



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			Token, Campus coin			
		4.9	Coin drop as a strategy for Public adoption	T1,T2	1	
		4.10	Currency Multiplicity	T1,T2	1	
		4.11	Demurrage currency	T1,T2	1	
		4.12	Demurrage currency	T1,T2	1	
-	1	1.12	Demanage variety	Total	12	1
		5.1	Technical challenges	T1,R1	1	
		5.2	Technical challenges	T1,R1	1	Chalk & Board Power point presentation
		5.3	Business model challenges	T1,R1	1	
		5.4	Business model challenges	T1,R1	1	
		5.5	Scandals and Public perception	T1,R1	1	
	00 5	5.6	Government Regulations	T1,R1	1	
V	CO - 5	5.7	Uses of Block chain in E-Governance	T1,R1	1	
		5.8	Uses of Block chain in E-Governance	T1,R1	1	Assignment
		5.9	Land Registration	T1,R1	1	
			Medical Information Systems	T1,R1	1	Test
		5.10	Medical Information Systems	T1,R1	1	
		5.11	Medical information systems	Total	11	1
			CUMULATIVE PROPOSED	PERIODS	55	,
			CUMULATIVE PROPOSED	PERIODS	55	
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4	https://www.coursera.org/learn/blockchain-basics	
5	https://steemit.com/	
6	https://101blockchains.comhttps://followmyvote.com/	

		Name	Signature with Date
i.	Faculty	Mrs.V. Sivani	maur 9/3/25
ii.	Module Coordinator	Mrs.V. Sivani	man 9/6/25
iii.	Programme Coordinator	Dr. RVVSV Prasad	Duscopia 3_

Principal