

Swarnandhra College of Engineering & Technology

Autonomous and recognized under 2(F) and 12(B) by UGC

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		urse	Semester	Branch			cademic	Da			
Code	-	itle	Schlester	Dranen			Year	commo			
20CC6T02	Investi	Cyber Crime nvestigation & VI CSE-CS 5 bigital Forensics		2	2024,25	18-11					
COURSE O	UTCOME	S									
1	Acquire t	he definit	e definition of computer forensics fundamentals. (K2)								
2	Describe the types of computer forensics technology. (K3)										
3	Analyze various computer forensics systems. (K4)										
4	Illustrate the methods for data recovery, evidence collection and data seizure. (K3)										
5	Summari	Summarize duplication and preservation of digital evidence. (K2)									
UNIT	Out Comes / Bloom's Level	Topics No.	Topics/ Activity		Text Book/ Ref	Contact Hour	Del Me				
	CO-1					Unit-1: Intr	oduction of	Cyber Crime			
			1.1	Introduction	of Cyber Cri	me	T1	1			
		1.2	Overview of	Cyber Crime	,	T1	1	С			
		1.3	Nature of Cy	ber Crime		T1	ı ı	В			
		I CO-1	co 1	1.4	Scope of Cy			T1	2		
1			1.5	Types of Cy	ber Crime		T1	1	Pow		
			1.6	Social Engir	neering		T1	2	prese		
			1.7	Categories o	f Cyber Crim	e	T1	2			
		1.8	Property Cy	ber Crime		TI	1	Assig			
Content beyond syllabus 1.9		Cyber Crime Portal - https://cybercrime.gov.in/ National Cyber Crime Reporting Portal		R1	1	Video					
	V					Total	12				
				ber Crime I			*				
	CO - 2	2.1		d Access to C	Computers	T1,T2	'n				
п		2.2	Computer In	AND THE CONTRACTOR OF THE CONT		T1,T2	1	Ch			
		2.3	White collar			T1	1				
		2.4	Viruses and	Malicious Co	ode	T1,T2	1	В			
		2.5	Internet Hac	king and Cra-	cking	T1,T2	1	Powe			
		2.6	Virus Attack	s and Porno	graphy	T1	1	row			

VISION CONDUCT

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			Software Piracy, Intellectual Property, Mail Bombs	Т1	1	presentatio Assignmen	
		2.8	Exploitation, Stalking and Obscenity in Internet	T1,T2	1	Test	
	ì	2.9	Digital laws and legislation	T2	1		
		2.10	Law Enforcement Roles and Responses.	T1	1		
Content beyond syllabus		2.11	Hacking, Malware and Identity Theft on Cybercrime.	R2	1	NPTEL Vi	
			То	tal	11	-w-	
	CO - 3		Unit-3: Investigation				
ш		3.1	Introduction to Cyber Crime Investigation	T1,T2	1		
		3.2	Investigation Tools	T1,T2	1	Chalk	
		3.3	e- Discovery, Digital Evidence Collection, Evidence Preservation.	T1,T2	2	& Board	
		3.4	E-Mail Investigation, E-Mail Tracking, IP Tracking, E-Mail Recovery.	T1,T2	1	Power point	
		3.5	Hands on Case Studies		2	presentatio	
		3.6	Encryption and Decryption Methods		1	Assignme	
		3.7	Search and Seizure of Computers		1	Test	
		3.8	Recovering Deleted Evidences and Password Cracking		1		
Content beyond syllabus		3.9	Cybercrime Investigation Tools and Techniques	R1	2	Experimen Learning	
-				Total	12	-	
			Unit-4: Digital Forensics		3-	-	
	CO-4	4.1	Introduction to Digital Forensics	T1,T2	1		
IV			4.2	Forensic Software and Hardware	T1,T2	1	Chalk & Board
			4.3	Analysis and Advanced Tools	T1,T2	1	
		4.4	Forensic Technology and Practices	T1,T2	1	Board	
		4.5	Forensic Ballistics and Photography	T1,T2	2	Power poin	
		4.6	Face, Iris and Fingerprint Recognition	T1,T2	1	presentatio	
		4.7	Audio Video Analysis	T1,T2	2		
		4.8	Windows System Forensics	T1,T2	2	Assignme Test	
0		4.9	Linux System Forensics and Network Forensics	T1,T2	1		
Content beyond syllabus		4.10	Digital Forensics in Information Security	T2	1	NPTEL Vio	
				Total	13		
v	CO-5		Unit-5: Role of CRET-In Cyber Security		,		



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Computer Security Incident Response

		5.1	(Reactive)	T2,R3	2	& &		
		5.2	Computer Security Incident Prevention (Proactive)	T2,R3	2	Board Power poin		
		5.3	Security Quality Management Services	T2,R3	2	presentation		
		5.4	CERT-In Security Guidelines- Web server, database server.	T2,R3	2	Assignment Test		
		5.5	Intrusion Detection system	T1,T2	1			
		5.6	Networked System	T1,T2	1			
		5.7	IT Security polices for government and critical sector organizations.	T1,T2	1			
Content beyond syllabus 5.8		labus 5.8	Computer Emergency Response Team(CERT) https://www.cert-in.org.in	T2, R1	T2, R1 1 Expo			
				Total	12			
			Cumulative Prop	osed Periods	60			
Text	Books:					11		
S.		AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION						
	1 Fo	Thomas J. Holt, Adam M Bossler and Kathryn C. Seigfried. Spellat, "Cybercrime and Digi Forensics:" 2nd Edition, PaperBack, 19th October 2017.						
		Nihad A. Hassan, —Digital Forensics Basics: A Practical Guide Using Windows (Paperbackl, February 26, 2019						
Refe	rence Books	and the same of th	A Second					
S.			K TITLE, EDITION, PUBLISHER, YEAR					
	Le	Nelson Phillips and EnfingerSteuart, —Computer Forensics and Investigations, Cengage Learning, New Delhi, 2009.						
1		Kevin Mandia, Chris Prosise, Matt Pepe, —Incident Response and Computer Forensics—, Tat McGraw-Hill, New Delhi, 2006						
	3 . F	. Robert M Slade, Software Forensics, Tata McGraw - Hill, New Delhi, 2005						
Web	Details:				3			
		https://cybercrime.gov.in/						
	2 ht	https://www.cert-in.org.in						
			ov.in/sites/default/files/documents- cyber_crime_investigation_manual.pdf					
			Name S	Signature with	Date			
i ·	i Faculty		Mrs. R. Uma Aruna Devi	R. OAD				
ii		Coordinator	Dr. RVVSV Prasad	Dispussion d				

Atrincipal

Rio Suprand

Dr. RVVSV Prasad

Programme Coordinator

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