

CMR INSTITUTE OF TECHNOLOGY: HYDERABAD
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
22CSPC54 INFORMATION AND CYBER SECURITY
Class: III B.Tech V Semester
LESSON PLAN

Unit No.	Name of the Topic	No. Of periods Required	Proposed Date	Completed Date	Remarks	Sign
I	Introduction: Essential Terminologies	1				
	Information Security-Principles,					
	Network Security Model, NIA	1				
	Risks ,Breaches , Threats, Attacks, Exploits	1				
	Information gathering, Incident Response Team	1				
	Reporting Crime, Operating System Attacks, Application Attack	1				
	Reverse Engineering, Cracking Techniques	1				
	Financial Frauds	1				
	UNIT-I Total Classes	7				
II	Cryptography					
	Introduction to Cryptography	1				
	Message Authentication	1				
	Digital Signatures	1				
	Overview of Firewalls- Types of Firewalls	1				
	VPN Security	1				
	Security Protocols – Security at Application layer: PGP	1				
	S/MIME	1				
	Security at Transport layer: SSL	1				
	TLS	1				
	Security at Network layer: IPSec	1				
	UNIT-II Total Classes	10				
III	Cryptanalysis and Cyber Offences:	1				
	PART-A:					
	Open source/Free/ Trial Tools: Implementation of Cryptographic Techniques	1				
	Open SSL	1				
	Hash Value Calculation	1				
	MD5	1				
	SHA1, SHA-256	1				
	SHA-512	1				
	Introduction to Steganography	1				
	UNIT-III Total Classes	7				
	I MID EXAMINATION	24 Hours				
	PART-B:					

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	Introduction to Cyber Offences	1				
	How Criminals Plan the attacks	1				
	Social Engineering	1				
	Cyber Stalking	1				
	Cyber Café and Cyber Crimes	1				
	Botnets	1				
	Introduction to Cloud Security	1				
	UNIT-III Total Classes	7				
IV	Cyber Security Audit and Standards:					
	Risk assessment and Management	1				
	Asset Classification	1				
	Crisis management plan	1				
	Resources Recovery strategy	1				
	Security Testing	1				
	International Standards	1				
	Analysis and logging	1				
	Security Certification	1				
	UNIT-IV Total Classes	8				
V	Security policy and IT ACT:					
	Security Policies	1				
	WWW policies, E-Mail Security policies	1				
	Policy Review process- Corporate Policies	1				
	Sample Security policies	1				
	Publishing and Notification requirement of the policies	1				
	Information Security Standards- ISO	1				
	Cyber laws in India- IT ACT-2000 Provisions	1				
	Intellectual Property law: Copy right Law	1				
	Software License and Patent Law	1				
	UNIT-V Total Classes	9				
	II MID EXAMINATION	24 Hours				
	Grand Total Classes	48 Hours				

Course Coordinator

HOD