Department of Computer Science & Design

Lesson Plan & Work-done Diary for AY: 2024-25, EVEN Semester

Course with Code: Elements of Cyber Security –BCY402				Faculty: Prof. Yogesh N			Semester & Section: IV	
Class No.	Date Planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1								
1		Course Introduction	PPT	1				
2		Introduction to Cyber Security: Basic Cyber Security Concepts, layers of security	PPT	2				
3		Vulnerability, Assets and Threat	PPT	3				
4		Motive of attackers, active attacks, passive attacks	PPT	4				
5		Software attacks, hardware attacks	PPT	5				
6		Cyber Threats-Cyber Warfare	PPT	6				
7		Cyber terrorism, Cyber Espionage	PPT	7				
8		Comprehensive Cyber Security Policy	PPT	8				

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MODULE-2								
1		Mobile and Digital Payments Security: Security Challenges and types of attacks on Mobile devices	PPT	1				
2		Security for Mobile Apps	PPT	2				
3		Mobile Device Management tools and techniques	PPT	3				
4		Digital payments Security: Banking Cards	PPT	4				
5		Unified Payment Interface (UPI), e-Wallets	PPT	5				
6		Unstructured Supplementary Service Data (USSD)	PPT	6				
7		Digital payments related common frauds and preventive measures	PPT	7				
8		Case study: Aadhar enabled payments	PPT	8				

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MODULE-3									
1		E-Mail Security: Pretty Good Privacy	PPT	1					
2		S/MIME IP Security: IP Security overview	PPT	2					
3		IP Security architecture	PPT	3					
4		Authentication Header	PPT	4					
5		Encapsulating security payload	PPT	5					
6		Combining security associations	PPT	6					
7		Internet Key Exchange	PPT	7					

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MODULE-4								
1		Web security considerations	PPT	1				
2		Secure Socket Layer Security	PPT	2				
3		Transport Layer Security	PPT	3				
4		HTTPS, Secure Shell (SSH)	PPT	4				
5		Wireless Network Security: Wireless Security	PPT	5				
6		Mobile Device Security	PPT	6				
7		IEEE 802.11 Wireless LAN	PPT	7				
8		IEEE 802.11i Wireless LAN Security	PPT	8				

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MODULE-5								
1		Cryptography Concepts and Techniques: Introduction	PPT	1				
2		Plain text and cipher text	PPT	2				
3		Substitution techniques	PPT	3				
4		Transposition techniques	PPT	4				
5		Encryption and decryption	PPT	5				
6		Symmetric and asymmetric key cryptography	PPT	6				
7		Steganography	PPT	7				
8		Key range and key size	PPT	8				
9		Possible types of attacks	PPT	9				

	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/ Quizzes/ Self-study	2 Assignments		
3	Tutorials/ Extra classes	NIL		
4	Internal Assessments	03		
5	ICT based Teaching (% of usage in Curriculum)	100%		
Planning			**Execution**	
Faculty Signature:			**Faculty Signature:**	
HoD Signature:			**HoD Signature:**	