DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - CYBER SECURITY

Lesson Plan & Work-done Diary for EVEN Semester AY: 2025-26

Course with Code: Elements of Cyber Security –BCY402				Faculty: Razikha Amreen M I .				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 for any deviation	
01	23-02-2026	Bridge Course		1	23-02-2026	Bridge Course			
02	24-02-2026	Bridge Course		2	24-02-2026	Bridge Course			

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MODULE-1									
1	25-02-2026	Introduction and Syllabus discussion.	PPT	1					
2	27-02-2026	Introduction to Cyber Security: Basic Cyber Security Concepts, layers of security	PPT	2					
3	02-03-2026	Vulnerability, Assets and Threat	PPT	3					
4	3-3-2026	Motive of attackers, active attacks, passive attacks	PPT	4					
5	4-3-2026	Software attacks, hardware attacks	PPT	5					
6	6-3-2026	Cyber Threats-Cyber Warfare	PPT	6					
7	9-3-2026	Cyber terrorism, Cyber Espionage	PPT	7					
8	10-3-2026	Comprehensive Cyber Security Policy	PPT	8					

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		MODULE-2						
1	11-3-2026	Mobile and Digital Payments Security: Security Challenges and types of attacks on Mobile devices	PPT	1				
2	13-3-2026	Security for Mobile Apps	PPT	2				
3	16-3-2026	Mobile Device Management tools and techniques	PPT	3				
4	17-3-2026	Digital payments Security: Banking Cards	PPT	4				
5	18-3-2026	Unified Payment Interface (UPI), e-Wallets	PPT	5				
6	20-3-2026	Unstructured Supplementary Service Data (USSD)	PPT	6				
7	23-03-2026 24-03-2026	Discussions as case study : Aadhar Enabled payments	PPT	7				
8	25-3-2026	Digital payments related common frauds and preventive measures	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					
8		Revision and Quiz							

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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				
9		Revision and Quiz						

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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				
10		Revision						