

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Lesson Plan & Work-done Diary for AY: 2026-27 ODD Semester

Course with Code: Computer and Network Security -BEC714B				Faculty In Charge: Prof. Anupama Shetter			Sem & Sec : 7 th A & B	
Module	Class No.	Date Planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-0	1		Bridge Course: Basics of Networks, Types of Security Attacks, and Intro to OS Security	PPT				
MODULE-1	2		Attacks on Computers and Computer Security: Need for Security, Security Approaches	PPT				
	3		Principles of Security, Types of Attacks	PPT				
	4		Security Mechanisms	PPT				
	5		Security Services and Attacks	PPT				
	6		Model for Network Security	PPT				
	7		Case Study: Recent Cyber Attacks	PPT				
	8		Summary & Quiz Activity	PPT				

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MODULE-2	9		Malicious Logic: Introduction to Malicious Logic	PPT				
	10		Trojan Horses and Computer Viruses	PPT				
	11		Worms and Other Malicious Code	PPT				
	12		Defenses Against Malicious Logic	PPT				
	13		Vulnerability Analysis: Introduction to Vulnerability Analysis	PPT				
	14		Penetration Testing Techniques	PPT				
	15		Vulnerability Classification and Frameworks	PPT				
	16		Case Study / Quiz	PPT				

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MODULE-3	17		Auditing: Definitions and Purpose of Auditing	PPT				
	18		Anatomy of Auditing System	PPT				
	19		Designing and Posterior Design	PPT				
	20		Auditing Mechanisms and Examples	PPT				
	21		Audit Browsing Techniques	PPT				
	22		Intrusion Detection: Introduction to Intrusion Detection	PPT				
	23		IDS Models and Architectures	PPT				
	24		IDS Organization and Responses	PPT				

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MODULE-4	25		Network Security – Introduction	PPT				
	26		Policy Development for Network Security	PPT				
	27		Network Flooding and Availability	PPT				
	28		Anticipating Attacks and Mitigation	PPT				
	29		System Security: Introduction	PPT				
	30		Security Policy for Systems and Users	PPT				
	31		Authentication, Files and Processes	PPT				
	32		Case Study / Quiz / Retrospective	PPT				

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MODULE-5	33		User Security: Introduction to User Security	PPT				
	34		Access Control – Files, Devices, Processes	PPT				
	35		Email and Communication Security	PPT				
	36		Program Security – Introduction	PPT				
	37		Security Requirements and Policy Design	PPT				
	38		Refinement and Secure Implementation	PPT				
	39		Secure Coding and Practices	PPT				
	40		Summary / Quiz / Assessment Discussion	PPT				

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