



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - CYBER SECURITY

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

Course with Code: Hacker Techniques, Tools and Incident Handling-BCY515C				Faculty: Darshini Y			Semester & Section: V	
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
Bridge Course								
1.		Concepts of Hackers Techniques and Hacking						
2.								
3.								
		Module-1						
1.		Hacking: The Next Generation: Profiles and Motives of Different Types of Hackers,	PPT	1.				
2.		History of Computer Hacking,	PPT	2.				
3		Ethical Hacking and Penetration Testing, Common Hacking Methodologies,	PPT	3.				
4.		Performing a Penetration Test, The Role of the Law and Ethical Standards.	PPT	4.				
5.		Physical Security: Basic Equipment Controls, Physical Area Controls,	PPT	5.				
6.		Facility Controls, Personal Safety Controls, Physical Access Controls,	PPT	6.				
7.		Avoiding Common Threats to Physical Security, Defense in Depth.	PPT	7.				
8.		Avoiding Common Threats to Physical Security, Defense in Depth.	PPT	8.				





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		MODULE-2						
1.		Footprinting Tools and Techniques: The Information-Gathering Process, The Information on a Company Website,	PPT	1.				
2.		Discovering Financial Information, Google Hacking, Exploring Domain Information Leakage,	PPT	2.				
3		Tracking an Organization's Employees, Exploiting Insecure Applications,	PPT	3.				
4.		Using Social Networks, Using Basic Countermeasures.	PPT	4.				
5.		Port Scanning: Determining the Network Range,	PPT	5.				
6.		Identifying Active Machines,	PPT	6.				
7.		Mapping Open Ports, OS Fingerprinting,	PPT	7.				
8.		Mapping the Network, Analyzing the Results.	PPT	8.				





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MODULE-3								
1.		Enumeration and Computer System Hacking: Windows Basics, Commonly Attacked and Exploited Services,	PPT	1.				
2.		Enumeration, System Hacking, Types of Password Cracking,	PPT	2.				
3.		Using Password Cracking, Using PsTools,	PPT	3.				
4.		Rootkits, Covering Tracks.	PPT	4.				
5.		Wireless Vulnerabilities: The Importance of Wireless Security,	PPT	5.				
6.		Working with and Securing Bluetooth, Working with Wireless LANs,	PPT	6.				
7.		Threats to Wireless LANs, Internet of Things (IoT),	PPT	7.				
8.		Wireless Hacking Tools, Protecting Wireless networks.	PPT	8.				





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MODULE-4								
1.		Malware: Malware, Viruses and How they Function,	PPT	1.				
2.		Worms and How they Function, Significance of Trojans, Detection of Trojans and Viruses,	PPT	2.				
3.		Trojan Tools, Distribution Methods, Trojan Construction Kits, Backdoors,	PPT	3.				
4.		Covert Communication, Spyware, Adware,	PPT	4.				
5.		Scareware, Ransomware.	PPT	5.				
6.		Sniffers, Session Hijacking, and Denial of Service Attacks: Sniffers, Session Hijacking,	PPT	6.				
7.		Distributed Denial of Service (DDoS) Attacks,	PPT	7.				
8.		Botnets and the Internet of Things (IoT).	PPT	8.				





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MODULE-5								
1.		Incident Response: What is Security Incident? The Incident Response Process,	PPT	1.				
2.		Incident Response Plans, Planning for Disaster and Recovery,	PPT	2.				
3.		Evidence Handling and Administration,	PPT	3.				
4.		Requirements of Regulated Industries.	PPT	4.				
5.		Defensive Technologies: Defense in Depth, Intrusion Detection Systems,	PPT	5.				
6.		The Purpose of Firewalls,	PPT	6.				
7.		Honeypots / Honeynets,	PPT	7.				
8.		The Role of Controls, Security Best Practices.		8.				





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	Activity	Planned	Actual	Remarks
1	Theory Classes	50		
2	Assignments/ Quizzes/ Self-study	2		
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:	