



LESSON PLAN

Subject : CYBSER SECURITY		
Year : IV B-Tech	Semester : II	Branch : IT
Faculty : V.VIDYA SAGAR	Reg : R16	Academic Year : 2021-22

COURSE OBJECTIVES:

- Understand foundational Cyber Security principles, Security architecture, risk management, attacks, incidents, and emerging IT and IS technologies.
- Understand the importance of Cyber Security and the integral role of Cyber Security professionals.

COURSE OUTCOMES:

1.	Factual	CO1: Able to Understand Cyber Security architecture principles
2.	Conceptual	CO2: Able to Identifying System and application security threats and vulnerabilities
3.	Procedural	CO3: Able to Identifying different classes of attacks
4.	Applied	CO4: Able to Understand Cyber Security incidents to apply appropriate response CO5 : Able to Describing risk management processes and practices CO6: Able to Evaluation of decision making outcomes of Cyber Security scenarios

TEXT BOOKS:

1. Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives, Nina Godbole, Sunit Belapure, Wiley.
2. Principles of Information Security, Micheal E.Whitman and Herbert J.Mattord, Cengage Learning.

REFERENCE BOOKS:

1. Information Security, Mark Rhodes, Ousley, MGH.

Activity:

1	Factual	Reading Prerequisite concepts- networking concepts, basics of mathematics Basics of Computer networks Videos of Computer networks Referring the content on the Internet
2	Conceptual	Video Lectures related to networking NPTEL Videos Links from the Internet Examples
3	Procedural	Refer to text book content
4	Applied	Solving Exercises Assignments Quiz etc...

Activity / Schedule of UNIT-1 :

Pre-Class : Videos, E-books, Web links, Case Studies etc...

In-Class : Explanation on concept, discussion, Poll, doubts clarification, PPT, Demo etc..

Post-Class : Discussion Forum, Review on topic, Assessment, Quiz, Notes etc....

CLASS SL NO	CONCEPT	OBJECTIVES	PRE-CLASS	IN-CLASS	POST-CLASS
1.	Introduction, Cybercrime: Definition and Origins of the Word,	To learn what cybercrime is.	Refer Text Book -1 : Page no. 1	Discussion on pre-requisites (5 min) PPT presentation (35 min) Discussion or Poll activity (5 min) Summary (5min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
2.	Cybercrime and Information Security	To understand the importance of cyber	Refer Text Book -1 : Page no. 13	Revise previous class – (5 mins)	Discussion Forum on the topic in the

		security		<p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (20 min)</p> <p>Example (5 min)</p> <p>Doubts clarification (5 min)</p>	<p>group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
3	Who are Cybercriminals?	To understand who is called as a cybercriminal	Refer Text Book -1 : Page no. 16	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (20 min)</p> <p>Example (15 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
4.	Classifications of Cybercrimes	To understand different types of cybercrime	Refer Text Book -1 : Page no. 17	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (20 min)</p> <p>Example (15 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
5.	Cybercrime: The Legal Perspectives,	To understand the legal perspective on cybercrime	Refer Text Book -1 : Page no. 32	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (20 min)</p> <p>Example (15 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
6.	Cybercrimes: An Indian Perspective, Cybercrime and the Indian ITA 2000	To understand the legal perspective on cybercrime in india and ITA 2000	Refer Text Book -1 : Page no. 32	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (20 min)</p> <p>Example (15 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>

7.	A Global Perspective on Cybercrimes	To get an overview of cybercrime scenario in the overall global perspective.	Refer Text Book -1 : Page no. 36	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (20 min) Example (15 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
7.	Cybercrime Era: Survival Mantra for the Netizens	To understand Survival Mantra for the Netizens	Refer Text Book -1 : Page no. 39	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (20 min) Example (15 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic

UNIT – 2 : Cyberoffenses: How criminals Plan Them [Total Classes : 10]

Activity:

1	Factual	Reading Prerequisite concepts- cryptography basics, basics of mathematics Referring the content on the Internet
2	Conceptual	Video Lectures related to basics of cryptography NPTEL Videos Links from the Internet Explained Examples from Internet
3	Procedural	Refer to text book content Examples(simple to complex)
4	Applied	Assignments Quiz etc...

Activity / Schedule of UNIT-2 :

Pre-Class : Videos, E-books, Web links, Case Studies etc...

In-Class : Explanation on concept, discussion, Poll, doubts clarification, PPT, Demo etc..

Post-Class : Discussion Forum, Review on topic, Assessment, Quiz, Notes etc....

CLASS SL NO	CONCEPT	OBJECTIVES	PRE-CLASS	IN-CLASS	POST-CLASS
1.	Introduction: Categories of Cybercrime	To understand categories of cybercrime	Refer Text Book -1 : Page no. 45	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>Practicing Some Problems (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
2.	How Criminals Plan the Attacks	To get an overview of the steps involved in planning cybercrime	Refer Text Book -1 : Page no. 49	<p>Discussion on pre-requisites (5 min)</p> <p>PPT presentation (35 min)</p> <p>Discussion or Poll activity (5 min)</p> <p>Summery (5min)</p> <p>Doubts clari-fication (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
3.	Social engineering	To get an overview on social engineering	Refer Text Book -1 : Page no. 61	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
4.	Cyberstalking	To understand what cyber stalking is	Refer Text Book -1 : Page no. 65	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
5.	Cybercafé and Cybercrimes	To learn about the role of	Refer Text Book -1 : Page no. 67	Revise previous	Discussion Forum

		cybercafés in cybercrime		<p>class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>Practicing Some Problems (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
6.	Botnets: The fuel for cybercrime	To learn about botnets	Refer Text Book -1 : Page no. 71	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>Practicing Some Problems (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
7.	Attack Vector	To learn about attack vector	Refer Text Book -1 : Page no. 73	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
8.	Cloud Computing	To get an overview on cloud computing	Refer Text Book -1 : Page no. 75	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
9.	Cybercrime and cloud computing	To understand the risk associated with cloud computing	Refer Text Book -1 : Page no. 77	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>

				Doubts clarification (5 min)	
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Activity:

1	Factual	Reading Prerequisite concepts- numbers Videos related to asymmetric cryptography Referring the content on the Internet
2	Conceptual	Video Lectures related to number theory Links from the Internet Explained Examples from Internet
3	Procedural	Refer to text book content Understanding the concept by implementation
4	Applied	Implementing Programs, Assignments Quiz etc...

Activity / Schedule of UNIT-3 :

Pre-Class : Videos, E-books, Web links, Case Studies etc...

In-Class : Explanation on concept, discussion, Poll, doubts clarification, PPT, Demo etc..

Post-Class : Discussion Forum, Review on topic, Assessment, Quiz, Notes etc....

CLASS SL NO	CONCEPT	OBJECTIVES	PRE-CLASS	IN-CLASS	POST-CLASS
1.	Introduction, Proliferation of Mobile and Wireless Devices,	To understand the growth of mobile and wireless devices	Refer Text Book -1 : Page no. 82	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification	Discussion Forum on the topic in the group Review on the topic Share material on the topic

				(5 min)	
2.	Trends in Mobility	To understand mobility types and implications	Refer Text Book -1 : Page no. 84	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
3	Credit Card Frauds in Mobile and Wireless Computing Era	To understand types of credit card frauds in mobile and computing era	Refer Text Book -1 : Page no. 87	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
4	Security Challenges Posed by Mobile Devices, Registry Settings for Mobile Devices,	To understand the security challenges posed by mobile devices	Refer Text Book -1 : Page no. 91	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>

				(5 min)	
5	Authentication Service Security,	To understand authentication service security	Refer Text Book -1 : Page no. 93	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
6	Attacks on Mobile/Cell Phones	To understand attacks on mobile phones	Refer Text Book -1 : Page no. 99	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>

7	Mobile Devices: Security Implications for Organizations,	To understand security implications for organizations	Refer Text Book -1 : Page no. 107	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
8	Organizational Measures for Handling Mobile	To understand organizational measures for handling mobile	Refer Text Book -1 : Page no. 112	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
9	Organizational Security Policies and Measures in Mobile Computing Era,	To understand security policies and measures in mobile computing era	Refer Text Book -1 : Page no. 114	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>

10	Laptops	To learn physical security countermeasures on laptops	Refer Text Book -1 : Page no. 116		
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UNIT – 4 : Tools and Methods used in cybercrime [Total Classes :12]

Activity:

1	Factual	Reading Prerequisite concepts- security services, symmetric keys Videos related to security services Referring the content on the Internet
2	Conceptual	Video Lectures related Security services and mechanisms NPTEL Videos Links from the Internet Explained Examples from Internet
3	Procedural	Refer to text book content
4	Applied	Assignments Quiz etc...

Activity / Schedule of UNIT-4 :

Pre-Class : Videos, E-books, Web links, Case Studies etc...

In-Class : Explanation on concept, discussion, Poll, doubts clarification, PPT, Demo etc..

Post-Class : Discussion Forum, Review on topic, Assessment, Quiz, Notes etc....

CLASS SL NO	CONCEPT	OBJECTIVES	PRE-CLASS	IN-CLASS	POST-CLASS
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1.	Introduction, tools and methods used in cybercrime		Refer Text Book -1 : Page no. 125	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
2.	Proxy Servers and Anonymizers	To understand about proxy servers and anonymizers	Refer Text Book -1 : Page no. 129	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
3.	Phishing		Refer Text Book -1 : Page no. 131	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>

4.	Password cracking,	To learn about password cracking	Refer Text Book -1 : Page no. 132	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
5.	Key loggers and Spywares	To learn what keyloggers and spywares do	Refer Text Book -1 : Page no. 137	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
6.	Virus and Worms	To get the overview of virus and worms	Refer Text Book -1 : Page no. 143	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic

7.	Trojan Horses and Backdoors	To learn about Trojan horses and backdoors	Refer Text Book -1 : Page no. 151	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
8.	Steganography	To understand what steganography is	Refer Text Book -1 : Page no. 158	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
9.	DoS and DDoS	To learn about DoS and DDoS attacks	Refer Text Book -1 : Page no. 158	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>

10.	Sql Injection	To learn about SQL injection	Refer Text Book -1 : Page no. 164	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
11.	Buffer Overflow	To understand buffer overflow	Refer Text Book -1 : Page no. 168	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
12.	Attacks on Wireless Networks	To get an overview of wireless network hacking	Refer Text Book -1 : Page no. 176	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>

Activity:

1	Factual	Reading Prerequisite concepts- Network layers, email architecture Videos related to network layer, email service Referring the content on the Internet
2	Conceptual	Video Lectures related to OSI model NPTEL Videos Links from the Internet Explained Examples from Internet
3	Procedural	Refer to text book concepts Understanding the architectures
4	Applied	Assignments Quiz etc...

Activity / Schedule of UNIT-5 :

Pre-Class : Videos, E-books, Web links, Case Studies etc...

In-Class : Explanation on concept, discussion, Poll, doubts clarification, PPT, Demo etc..

Post-Class : Discussion Forum, Review on topic, Assessment, Quiz, Notes etc....

CLASS SL NO	CONCEPT	OBJECTIVES	PRE-CLASS	IN-CLASS	POST-CLASS
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1.	The Indian Context, The Indian IT Act,		Refer Text Book -1 : Page no. 253	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
2.	Challenges to Indian Law and Cybercrime Scenario in India		Refer Text Book -1 : Page no. 271	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
3.	Consequences of Not Addressing the Weakness in Information Technology Act,		Refer Text Book -1 : Page no. 272	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>
4.	Digital Signatures and the Indian IT Act		Refer Text Book -1 : Page no. 273	<p>Revise previous class – (5 mins)</p> <p>Asking Questions on previous class randomly (5 Mins)</p> <p>PPT presentation (35 min)</p> <p>Doubts clarification (5 min)</p>	<p>Discussion Forum on the topic in the group</p> <p>Review on the topic</p> <p>Share material on the topic</p>

5.	Information Security Planning and Governance,	To define management's role in the development, maintenance, and enforcement of information security policy, standards, practices, procedures, and guidelines	Refer Text Book -2 : Page no. 174	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
6.	Information Security Policy Standards, Practices	To define management's role in the development, maintenance, and enforcement of information security policy, standards, practices, procedures, and guidelines	Refer Text Book -2 : Page no.177	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
7.	The information Security Blueprint,	To Describe what an information security blueprint is, identify its major components, and explain how it supports the information security program	Refer Text Book -2 : Page no. 190	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
8.	Security education Training and awareness program,	To Discuss how an organization institutionalizes its policies, standards, and practices using education, training, and awareness programs	Refer Text Book -2 : Page no. 209	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic

9	Continuing Strategies	To Explain what contingency planning is and how it relates to incident response planning, disaster recovery planning, and business continuity plans	Refer Text Book -2 : Page no. 211		
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UNIT – 6 : Understanding Computer Forensics

[Total Classes : 12]

Activity:

1	Factual	Reading Prerequisite concepts- Referring the content on the Internet
2	Conceptual	Video Lectures related OSI model Explained Examples from Internet
3	Procedural	Refer to text book concepts Understanding the architectures
4	Applied	Assignments Quiz etc...

Activity / Schedule of UNIT-6 :

Pre-Class : Text books, Case Studies etc...

In-Class : Explanation on concept, discussion, doubts clarification, PPT, etc..

Post-Class : Discussion Forum, Review on topic, Assessment, Quiz, Notes etc....

CLASS SL NO	CONCEPT	OBJECTIVES	PRE-CLASS	IN-CLASS	POST-CLASS
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1.	Introduction, Historical Background of Cyber forensics,	To understand the fundamental concepts in cyber forensics	Refer Text Book -1 : Page no.317	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
2.	Digital Forensics Science, The Need for Computer Forensics,	To understand the need for cyberforensics	Refer Text Book -1 : Page no.320	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
3.	Cyber forensics and Digital Evidence	To learn what digital evidences is	Refer Text Book -1 : Page no.327	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
4.	Forensics Analysis of E-Mail	To understand forensics analysis of E-mail	Refer Text Book -1 : Page no.332	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
5.	Digital Forensics Life Cycle, Chain of Custody Concept	To understand digital forensics life cycle	Refer Text Book -1 : Page no.339	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic

6	Network Forensics, Approaching a Computer Forensics Investigation,	To understand Computer Forensics Investigation approach	Refer Text Book -1 : Page no.357	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
7	Computer Forensics and Steganography	To understand Computer Forensics and Steganography	Refer Text Book -1 : Page no.368	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
8	Relevance of the OSI 7 Layer Model to Computer Forensics	To understand the network processes and protocols in OSI model	Refer Text Book -1 : Page no.373	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
9	Forensics and Social Networking Sites: The Security/Privacy Threats	To understand the data privacy issues involved	Refer Text Book -1 : Page no.377	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
10	Computer Forensics from Compliance Perspective,	To understand the legal requirements for cyberforensics and compliance perspective	Refer Text Book -1 : Page no.383	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic

11	Challenges in Computer Forensics,	To understand the challenges faced in cyber-forensics	Refer Text Book -1 : Page no.389	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic
12	Special Tools and Techniques, Forensics Auditing, Ant forensics	To learn about cyber forensics tools available in the market To learn about auditing	Refer Text Book -1 : Page no.396	Revise previous class – (5 mins) Asking Questions on previous class randomly (5 Mins) PPT presentation (35 min) Doubts clarification (5 min)	Discussion Forum on the topic in the group Review on the topic Share material on the topic

Total classes:

Unit.No	Name Of The Unit	Hours Planned
Unit-1		10
Unit-2		12
Unit-3		14
Unit-4		17
Unit-5		8
Unit-6	Understanding Computer Forensics	12
	Total Hours	71

Signature of HOD

(S. Kishor Babu)