INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500 043

CSE (CYBER SECURITY)

QUESTION BANK

Course Title	**ESSENTIALS OF CYBER SECURITY**				
Course Code	ACCD01				
Program	B.Tech				
Semester	III	CSE(CS)			
Course Type	Core				
Regulation	IARE - BT23				
Course Structure		Theory			Practical	
	Lecture	Tutorials	Credits	Laboratory	Credits
	3	1	4	-	-
Course Coordinator	**Mr. Y Manohar Reddy, Assistant Professor**				

COURSE OBJECTIVES:
The students will try to learn:

I	The awareness on cyber-attacks, cyber-crimes, and cyber security.
II	The knowledge on cyber forensics and Digital Forensics within context of the cyber security.
III	The security model and analyze them before being used in many applications.
IV	The Financial and Credit card Frauds in Cyber Domain.

COURSE OUTCOMES:
After successful completion of the course, students should be able to:

CO1	**Explain** the basic Cyber Security Concepts to overcome the cyber-attacks.	Understand
CO2	**Identify** the cyberspace and the law to offer reliable legal inclusiveness to facilitating registration of real-time records..	Apply
CO3	**Identify** the forensic investigation and challenges in computer forensics to gather and preserve evidence.	Apply
CO4	**List** out various Organizational security Policies and Measures insecurity issues of mobile computing domain	Remember
CO5	**Demonstrate** the cost of cybercrimes and IPR issues to detect and recover internal costs in an organization. .	Understand

CO6	**Extend** briefly about the cybercrime mini-cases examples to know the real world case studies.		Uunderstand

QUESTION BANK:

Q.No	QUESTION	Taxonomy	How does this subsume the level	CO's
	MODULE I			
	INTRODUCTION TO CYBER SECURITY			
	PART A- CRITICAL THINKING QUESTIONS			
1	Compare with suitable examples cyber security and digital security	Understand	The learner will try to **recall** the concept of cyber secuirty and digital security and then **explain** the differences between them.	CO 1
2	How the lack of information security gives rise to cyber crimes?	Understand	The learner will try to **recall** Indian Information Technology Act(ITA)2000 and then **explain** the lack of information security to the increase of cyber crimes.	CO 1
3	Differentiate between cyberspace and cybersquatting	Understand	The learner will try to **recall** concept of cyberspace and cybersquatting then **explain** the differences between them	CO 2
4	Recall about host integrity policy in cyber security policies	Remember	The learner will try to **recall** the concept of cyber security policies and then **explain** host integrity policy in cyber security policies	CO 1
5	Differentiate between cyber warfare and cyber terrorism	Understand	The learner will try to **recall** the concept of Ion propulsion and then **explain** how thrust is generated	CO 1
6	Who are cyber criminals and their motive?	Understand	The learner will try to **recall** the concept of cyber criminal acts and then **explain** who are cyber criminals	CO 2

7	How data encryption is used in CIA Triad	Apply	The learner will try to **recall** the definition of data encryption and then **explain** the use in CIA Triad	CO 1
8	Describe biometric verification and apply the confidentiality in CIA Triad	Apply	The learner will try to **recall** biometric verification cia triad and then Understand the concept of confidentiality in CIA Triad	CO 2
9	Illustrate the implementation of firewalls in availability	Apply	The learner will try to **recall** the implementation of firewalls and then **Understand** the application in availability	CO 2
10	Explain the data redundancy advantages and disadvantages in cyber security model.	Understand	The learner will try to **recall** the concept of drag of data redundancy and then **explain** their advantages and disadvantages.	CO 1
PART-B LONG ANSWER QUESTIONS				
1	Demonstrate the concept of cyber security and **explain** different cyber crimes.	Understand	The learner will try to **recall** the concept of cyber security and then **explain** different cyber crimes.	CO 1
2	Explain layers of security in cyber security.	Understand	The learner will try to **recall** the the list of layers in security and then **explain** the different layers in cyber security.	CO 1
3	Demonstrate the classifications of cyber crimes.	Understand	The learner will try to **recall** the various classification of cyber crimes and then **explain** them.	CO 2
4	Make use of CIA Triad and explain the security measures in it.	Apply	The learner will try to **recall** how the CIA Triad can be constructed and then **explain** different security measures.	CO 1

5	Differentiate passives attacks and active attacks in cyber crimes.	Understand	The learner will try to **recall** the concept of passive attacks and then **derive** the ideal rocket equation and **Apply** it in determining specific impulse and payload ratio	CO 2
6	Explain about comprehensive cyber security policy	Remember	The learner will try to **recall** the comprehensive cyber security policy and then **explain** different policies involved in cyber security	CO 1
7	Elaborate the need of security policies in cyber security.	Understand	The learner will try to **recall** the needs in cyber security and then **explain** them in various fields	CO 2
8	Compare different malware attacks in cyber crimes.	Understand	The learner will try to **recall** the list of malware attacks and then **explain** them.	CO 1
9	Explain confidentiality in CIA Triad.	Understand	The learner will try to **recall** various the standard security measures and **explain** their advantages	CO 1
10	Evaluate the types of active attacks in cyber security and explain them in details	Understand	The learner will try to **recall** various types of active attacks and **explain** them	CO 2
11	What are the types of passive attacks and explain each of them in detail.	Understand	The learner will try to **recall** the types of passive attacks and **explain**them	CO 1
12	Illustrate the different types of policies in cyber security.	Understand	The learner will try to **recall** varioutypes of policies in cyber security and **explain** them	CO 1
13	What are the types of cyber-attacker actions and their motivations when deliberate and expalin them witha aneat sketch	Understand	The learner will try to **recall** types of cyber-attacker actions and their motivations when deliberate and **explain** them with a neat sketch	CO 2

14	List out common malware attacks and their characteristics.	Understand	The learner will try to **recall**common malware attacks and **explain** their characteristics	CO 1
15	Illustrate the Challenges and Constraints in Internet Governance	Understand	The learner will try to **recall** various Challenges and Constraints in Internet Governance	CO 1
16	Evaluate the Categories of vulnerabilities in cyber security	Understand	The learner will try to **recall** various categories of vulnerabilities in cyber security	CO 2
17	Discuss about Confidentiality and evaluate Standard measures to establish confidentiality in cyber security.	Understand	The learner will try to **recall** various the standard security measures to establish confidentiality	CO 1
18	Discuss about Integrity and evaluate standard measures to establish Integrity in cyber security.	Understand	The learner will try to **recall** various the standard security measures to establish integrity	CO 2
19	Discuss about Availability and evaluate standard measures to establish Availability in cyber security.	Understand	The learner will try to **recall** various the standard security measures to establish Availability	CO 1
20	Explain use of availability in CIA Triad to overcome cyber attacks.	Understand	The learner will try to **explain** use of availability in CIA Triad to overcome cyber attacks.	CO 2
PART-C SHORT ANSWER QUESTIONS				
1	Define Cyber Security.	Understand	The learner will try to **recall** the definition of cyber security and **explain** its advantages	CO 1
2	Define CIA Triad.	Remember	The learner will try to **recall** the definition of CIA Triad and **explain** y a security model that has been developed to help people think about various parts of IT security	CO 2

3	Define Vulnerability	Understand	The learner will try to **recall** the definition of Vulnerability and **explain** threats to cyber security.	CO 1
4	Define Confidentiality in CIA Triad.	Apply	The learner will try to **recall** the concept of CIA Triad and **explain** security measures in cyber security.	CO 2
5	Write a short notes on cyner warfare	Understand	The learner will try to recall the definition of cyber warfare.	CO 1
6	Write a short notes on cyber terrorism	Understand	The learner will try to recall the definition of cyber terrorism.	CO 2
7	What is the need of cyber security policies	Remember	The learner will try to recall the policies of cyber security and explain the need of cyber security policies	CO 1
8	Define firewall protection policy in cyber security policies	Remember	The learner will try to recall the policies of cyber security and explain about firewall protection policy in cyber security policy	CO 2
9	Define Virus and Spyware Protection policy in cyber security policies	Remember	The learner will try to recall the policies of cyber security and explain about Virus and Spyware Protection in cyber security policy	CO 1
10	Define Intrusion Prevention policy in cyber security policies	Remember	The learner will try to recall the policies of cyber security and explain about Intrusion Prevention policy in cyber security policy	CO 1
11	Define Data encryption	Understand	The learner will try to explain about Data encryption in cyber security	CO 1
12	Define Two-factor authentication	Understand	The learner will try explain about Two-factor authentication in cyber security	CO 2

13	Define Biometric verification	Understand	The learner will try to recall the policies of cyber security and explain about Intrusion Prevention policy in cyber security policy	CO 1
14	Define Cryptographic checksums	Understand	The learner will try to explain about Cryptographic checksums in cyber security	CO 1
15	Define Security tokens	Understand	The learner will try to explain about Security tokens in cyber security	CO 2
16	Discuss how to use file permissions	Understand	The learner will try to explain how to use file permissions in cyber security	CO 1
17	Define Uninterrupted power supplies(UPS) in cyber security	Understand	The learner will try to explain about Uninterrupted power supplies in cyber security	CO 1
18	Explain how data backup works	Understand	The learner will try to explain about data backup working	CO 2
19	Explain about firewall implimentation	Understand	The learner will try to explain about firewall implimentation in cyber security	CO 1
20	Define Intrusion Prevention policy in cyber security policies	Understand	The learner will try to recall the policies of cyber security and explain about Intrusion Prevention policy in cyber security policy	CO 2

MODULE II				
CYBER SPACE AND THE LAW AND CYBER FORENSICS				
PART-A CRITICAL THINKING QUESTIONS				
1	Explain Cyberspace and mention the cyber security regulations in cyber security.	Understand	The learner will try to **explain** the cyber space and then **recall** the cyber security regulations	CO 2
2	Illustrate The INDIAN Cyberspace	Understand	The learner will try to **explain** about the Indian cyberspace	CO 2
3	Elaborate the INDIAN Cyberspace	Understand	The learner will try to **explain** about the Indian Cyberspace	CO 3
4	Classify the mission, vision, and objective of the national Cyber security policy	Remember	The learner will try to **recall** the mission, vision, and objectives of the national cyber security policy and **explain** it's agenda.	CO 2
5	Enumerate in detail about cyber forensics and explain about its need in digital world.	Understand	The learner will try **explain** how cyber forensics useful in cyber attacks.	CO 3
6	**Explain** about the historical background of cyber forensics.	Understand	The learner will try to **recall** about the historical background of cyber forensics	CO 3
7	Discuss about Digital forensics in computer evidence.	Understand	The learner will try to **explain** the concept of digital forensicsin computer forensics.	CO 3
8	Elucidate the need for computer forensics	Understand	The learner will try to **recall** the definition of computer forensics and then **explain** its need in computer forensics	CO 3
9	Demonstrate the cyber forensics and digital evidence	Understand	The learner will try to **explain** about cyber forensics and digital evidence	CO 3
10	Discuss about the Forensic analysis of email	Understand	The learner will try to **recall** the concept of Forensic analysis of email	CO 3

		PART-B LONG ANSWER QUESTIONS			
1	Illustrate NIST Compliance in cyber security regulations.	Understand	The learner will try to **recall** NIST Compliance in cyber security regulations	CO 2
2	Classify Various approaches that are used for e-mail forensic	Understand	The learner will try to **recall** Various approaches that are used for e-mail forensic	CO 3
3	Elaborate the Email Forensic Tools	Understand	The learner will try to **recall** the concept of email forensics and then **explain** the Email Forensic Tools	CO 3
4	Elucidate the digital forensics life cycle	Understand	The learner will try to **recall** the function of digital forensics life cycle and then **explain** different phases in digital forensic life cycle	CO 3
5	Describe forensic investigation and the different types of forensic investigation	Understand	The learner will try to **recall** the concept of forensic investigation and then **explain** different types of forensic investigation in cyber security	CO 3
6	Demonstrate the technical challenges in computer forensics in cyber security.	Understand	The learner will try to **recall** the technical challenges of computer forensics	CO 3
7	Interpret the legal challenges in computer forensics in cyber security.	Understand	The learner will try to **recall** the legal challenges of computer forensics	CO 3
8	Summarize the resource challenges in computer forensics in cyber security.	Understand	The learner will try to **recall** the resource challenges of computer forensics	CO 3
9	Describe the objectives of National cyber security policy	Understand	The learner will try to **recall** the objectives of National cyber security policy	CO 3
10	Discuss any one approach of forensics analysis of email	Understand	The learner will try to **recall** the approachs of forensics analysis of email and then **explain** any one of the approach of forensics analysis of email.	CO 3

11	Demonstrate NIST Cybersecurity Framework in cyber security.	Understand	The learner will try to **explain** about NIST Cybersecurity Framework in cyber secuirty	CO 2
12	Evaluate the objectives of National Cyber Security Policy	Understand	The learner will try to **explain** the objectives of National Cyber Security Policy	CO 2
13	Discuss how digital forensics is useful in cyber security.	Understand	The learner will try to **explain** how digital forensics is useful in cyber security.	CO 3
14	What is the role of Server Investigation in forensics analysis of email.	Understand	The learner will try to **explain** the role of Server Investigation in forensics analysis of email.	CO 3
15	Explain the Sender Mailer Fingerprints appraoch in forensics analysis of email	Understand	The learner will try to **recall** the approachs of forensics analysis of email and then **explain** Sender Mailer Fingerprints of forensics analysis of email.	CO 3
16	Evaluate the factors affect reporting in digital forensic life cycle	Understand	The learner will try to **explain**the factors affect reporting in digital forensic life cycle	CO 3
17	Discuss email trackerPro in email forensics tools.	Understand	The learner will try to **explain** eMailTrackerPro in email forensics tools.	CO 3
18	Discuss any one approach of forensics analysis of email	Understand	The learner will try to **recall** the approachs of forensics analysis of email and then **explain** any one of the approach of forensics analysis of email.	CO 3
19	What is Forensics Investigation and explain different types of Forensics Investigation.	Understand	The learner will try to **recall** the definition of Forensics Investigation and then **explain** different types of forensic investigation.	CO 3

20	Demonstrate Anti-forensics techniques in technical challenges of computer forensics.	Understand	The learner will try to **recall** the technical challenges in computer forensics and then **explain** about anti-forensics techniques	CO 3
<td colspan="5" align="center">**PART-C SHORT ANSWER QUESTIONS**</td>				
1	Define Cyber space	Understand	The learner will try to explain about cyber space	CO 2
2	Define Cyber Forensics	Understand	The learner will try to explain about cyber forensics	CO 3
3	Classify Cyber Security Regulations	Understand	The learner will try to explain about cyber security regulations	CO 2
4	Define Indian Penal Code	Understand	The learner will try to explain about Indian panal code	CO 2
5	What do you mean by NIST Compliance?	Understand	The learner will try to explain about NIST Compliance	CO 2
6	What are the Roles of International Law	Remember	The learner will try to explain about Roles of International Law	CO 2
7	Define National Cyber Security Policy	Remember	The learner will try to explain about National Cyber Security Policy	CO 2
8	Define Header Analysis in forensic analysis of email	Remember	the learner will try to explain about Header Analysis in forensic analysis of email	CO 3
9	Define Server Investigation in forensic analysis of email	Remember	The learner will try to **recall** about Server Investigation in forensic analysis of email	CO 3
10	Define Network Device Investigation in forensic analysis of email	Remember	The learner will try to **recall** about Network Device Investigation in forensic analysis of email	CO 3
11	Define Header Analysis in forensic analysis of email.	Understand	The learner will try to **explain** about Network Device Investigation in forensic analysis of email	CO 3

12	Elaborate The Florida Computer Crime Act	Remember	The learner will try to **recall** The Florida Computer Crime Act	CO 3
13	Write a short notes on Forensic evidence	Remember	The learner will try to **recall** about Network Device Investigation in forensic analysis of email	CO 3
14	What are the teo categories of cyber crime?	Remember	The learner will try to **recall** the two categories of cyber crimes	CO 3
16	What does Forensics means?	Remember	The learner will try to **recall** the meaning of Forensics	CO 3
17	List out the Forensic Tools	Remember	The learner will try to **recall** the forensic tools	CO 3
18	Define chain of custody	Remember	The learner will try to **recall** the definition of "Chain of custody"	CO 3
19	Define Network Device Investigation in forensic analysis of email	Remember	The learner will try to **recall** about Network Device Investigation in forensic analysis of email	CO 3
20	Write a short notes on "Indian Evidence Act 1872"	Remember	The learner will try to **recall** about Network Device Investigation in forensic analysis of email	CO 3
MODULE III			
CYBER CRIME : MOBILE AND WIRELESS DEVICES			
PART A-CRITICAL THINKING QUESTIONS			
1	What are the key findings for mobile security?	Understand	The learner will try to **recall**the key findings for mobile security?	CO 4
2	List the types of mobility and its implications?	Understand	The learner will try to **recall** the list the types of mobility and its implications	CO 4
3	What are the types of attacks against 3g mobile networks?	Understand	The learner will try to **recall** the types of attacks against 3g mobile networks and then **explain** their effects	CO 3

4	Discuss the concept on online process for creditcard transactions	Understand	The learner will try to **recall** the concept on online process for creditcard transactions and then **explain** effects on financial assets of an organization	CO 4
5	What are the remedies to prevent credit-card frauds	Apply	The learner will try to **recall** the remedies to prevent credit-card frauds and then **explain** advantages of following those remedies.	CO 3
6	List the types and techniques of credit-card frauds?	Understand	The learner will try to **recall** the working principle of solid rocket motor and liquid rocket engine and **explain** the differences between them	CO 4
7	What are the technical challenges in mobile security?	Understand	The learner will try to **recall** the the technical challenges in mobile security and then **explain** the issues in mobile security	CO 3
8	How to configure registry settings for mobile devices?	Understand	The learner will try to **recall** the working principle of registry settings for mobile devices	CO 4
9	What are the important issues for managing mobile devices?	Understand	The learner will try to **recall** the managing challenges in managing mobile devices and **explain** the issues in the management of mobile devices	CO 3
10	What are the components of security in mobile computing?	Understand	The learner will try to **explain** the components of security in mobile computing	CO 4
PART-B LONG ANSWER QUESTIONS				
1	Explain the concept of how Vishing works?	Understand	The learner will try to **recall** the concept of vishing and then **explain** the effects of working in mobile devices	CO 3

2	Explain different types of Mobile Virus?	Understand	The learner will try to **explain** different types of mobile viruses	CO 4
3	Discuss about Bluetooth hacking and tools for hacking Bluetooth?	Understand	The learner will try to **explain** about Bluetooth and then **explain** tools for hacking Bluetooth	CO 3
4	Explain Security implications for organizations in mobile security?	Understand	The learner will try to **explain** Security implications for organizations in mobile security?	CO 4
5	Explain different features that allows to system administrator?	Understand	The learner will try to **explain** features that allows to system administrator	CO 4
6	Explain about Trust Zone Technology for mobile Devices?	Understand	The learner will try to **explain** about TrustZone Technology for mobile Devices	CO 3
7	Describe the procedure on protecting Data on LostDevices?	Understand	The learner will try to **explain**s the procedure on protecting Data on LostDevices	CO 4
8	Discuss the concept of DM techniqs in mobile computing?	Understand	The learner will try to **recall** the concept of DM techniqs in mobile computing	CO 4
9	What is the importance of Security policies relating to mobile computing Devices?	Understand	The learner will try to **recall** the security policies relating to mobile devices and then **explain** their importance	CO 3
10	Discuss about operating guidelines for Implementing Mobile devices security policies?	Understand	The learner will try to **recall** the policies relating to mobile computing Devices and then **explain** operating guidelines for Implementing Mobile devices security policies	CO 4
11	Explain about some Unconventional/stealth storage devices	Understand	The learner will try to **explain** Unconventional/stealth storage devicesin Mobile devices security	CO 3

12	Explain about some Unconventional/stealth storage devices	Understand	The learner will try to **explain** Unconventional/stealth storage devicesin Mobile devices security	CO 4
13	Explain the most important management or support issues for laptops?	Understand	The learner will try to **explain** the most important management or support issues for laptops	CO 3
14	Define cryptographically generated address(CGA)?	Understand	The learner will try to **explain** cryptographically generated address(CGA)	CO 4
15	What are the different attacks on mobile/cell phones?	Understand	The learner will try to **explain** different attacks on mobile/cell phones	CO 4
16	Discuss the concept of IMEI?	Understand	The learner will try to **explain** the concept of IMEI(International Mobile Equipment Identity)	CO 3
17	How to install anti-theft software on mobile phone?	Understand	The learner will try to **explain** how to install anti-theft software on mobile phone	CO 4
18	How to protect from mobile malware attacks?	Understand	The learner will try to **explain** how to protect from mobile malware attacks	CO 3
19	Explain the process of Installing antitheft software in mobile phones?	Understand	The learner will try to **explain**the process of Installing antitheft software in mobile phones	CO 4
20	Explain the factors that imppact for outbreaks on mobile devices?	Understand	The learner will try to **explain** the factors that imppact for outbreaks on mobile devices?	CO 3
21	Explain different common attacks that have emerged as Bluetooth specificsecurity issues?	Understand	The learner will try to **explain** different common attacks that have emerged as Bluetooth specificsecurity issues	CO 3
PART-C SHORT ANSWER QUESTIONS				
1	Explain about SpyPhone Software for Laptops?	Understand	The learner will try to **explain** about SpyPhone Software for Laptops.	CO 4

2	Discuss about Physical Security Countermeasures?	Remember	The learner will try to **explain**about Physical Security Countermeasures	CO 3
3	Explain what kind of mobile attacks are possibble on mobile phones?	Understand	The learner will try to **explain** kind of mobile attacks are possibble on mobile phones	CO 4
4	Explain various measures for laptops?	Understand	The learner will try to **explain** about various measures for laptops	CO 4
5	Explain about how Vishing works in mobile phones?	Understand	The learner will try to **explain** about how Vishing works in mobile phones	CO 3
6	Write the procedure to how protect mobile from Malware attacks?	Understand	The learner will try to **explain** about procedure to how protect mobile from Malware attacks	CO 4
7	Explain about the process of working Networking API with secure online payments?	Understand	The learner will try to **explain** about about the process of working Networking API with secure online payments.	CO 4
8	Sketch and explain the communication process from client to Organization information store?	Understand	The learner will try to **explain** communication process from client to Organization information store	CO 3
9	Explain the concept of LDAP Directory structure?	Remember	The learner will try to **explain** the concept of LDAP Directory structure	CO 4
10	Discuss the process of entering DDOS attacks on mobiles ,laptops?	Understand	The learner will try to **explain** the process of entering DDOS attacks on mobiles ,laptops	CO 3
11	Explain the configuration process to set the registry settings on mobile devices?	Understand	The learner will try to **explain**e configuration process to set the registry settings on mobile devices	CO 4
12	Explain different types of issues for managing the mobile devices?	Understand	The learner will try to **explain** different types of issues for managing the mobile devices	CO 3

13	Discuss in detail about ClosedLoopEnvironment for Wireless(CLEW)?	Understand	The learner will try to **explain** the process of ClosedLoopEnvironment for Wireless(CLEW)	CO 4
14	Explain different causes that helps to prevent creditcard frauds?	Understand	The learner will try to **explain** different causes that helps to prevent creditcard frauds	CO 3
15	List and explain some mobile,wireless and handheld devices?	Understand	The learner will try to **list** the mobile, wireless and handheld devices **explain** the working of those wireless devices.	CO 4
16	Explain the concepts Pretexting,Sexting,VoIP spam?	Understand	The learner will try to **explain** the the concepts Pretexting,Sexting,VoIP spam	CO 3
17	Sketch the diagram of Mobility types and implications	Understand	The learner will try to **explain** about Mobility types and implications with the diagram	CO 4
18	Explain the use of General Packet Radio Service (GPRS) Tunneling Protocol in mobile security	Understand	The learner will try to **explain** about Mobility types and implications with the diagram	CO 3
19	Determine the flow of Online Environment for credit card transactions	Understand	The learner will try to **explain** the flow of online environment	CO 4
20	Explain the Physical Security Countermeasures in laptops	Understand	The learner will try to **explain** about Physical Security Countermeasures in laptops	CO 3
MODULE IV				
CYBER SECURITY: ORGANIZATIONAL IMPLICATIONS				
PART A- CRITICAL THINKING QUESTIONS				
1	How can we identify Insider Threads and give an example for Insider Threats.	Understand	The learner will try to **recall** about insider threats and **explain** it with the example	CO 5
2	What is Blue Shield Blue Cross. Explain in detail	Understand	The learner will try to **recall** about insider threads and then **explain**s about the example Blue Shield Blue Cross(BSBC)	CO 4

3	Discuss the flow and connections of cyber crimes in an organization with neat sketch	Understand	The learner will try to **recall** the actions done in an organization and then **explain** the flow and connection of cyber crimes in an organization.	CO 5
4	Describe briefly about key challenges from emerging new information threats in an organization	Understand	The learner will try to **recall** the key challenges in an organization and **explain** their importance	CO 5
5	Explain about organizations that have internal costs associated with cyber security incidents	Understand	The learner will try to **recall** the organizations that have internal costs associated with cyber security incidents and then **explain** the concept in detail.	CO 4
6	Explain about the Organizational implications of software piracy	Understand	The learner will try to **recall** the importance of organizational implications and then **explain**s about software piracy.	CO 5
7	Write a short note on the overview of web threats to organizations	Understand	The learner will try to **recall** the concept of Web threats in an organizations and then **explain**s its issues.	CO 4
8	Explain with neat sketch of enforcing policy usage in the organization	Understand	The learner will try to **recall** the policies in an organization and **explain**s the concept of applications of the policy	CO 5
9	Illustrate the challenges in controlling access to web applications	Understand	The learner will try to **recall** the challenges in controlling access and then **explain**s the concept of web applications	CO 5
10	Interpret the Security risks and perils for organization in social media marketing	Understand	The learner will try to **recall** the security risks and perils for an organization and then **explain** the disadvantages.	CO 4

PART-B LONG ANSWER QUESTIONS				
1	Draw a neat diagram of cyber crimes perspective.	Understand	The learner will try to **understand** the concept of cyber crimes and then **explain** the concept of relevent aspects of cybercrimes in perspective	CO 5
2	Explain the cost of cybercrimes and IPR issues with a neat diagram.	Understand	The learner will try to **recall** the concept of cost of cyber crimes and then **explain** them with a neat diagram.	CO 5
3	Detail the concept of organizational implications of software piracy	Understand	The learner will try to **recall** the concept of organizational implications and **explain** the implications of software piracy	CO 4
4	Explain about the overview of web threats to organizations.	Understand	The learner will try to **explain** the overview of web threats to organizations.	CO 5
5	Describe briefly about social media marketing in an organization to promote their products and services	Understand	The learner will try to **describe** the about social media marketing in an organization to promote their products and services	CO 4
6	Elucidate best practices with use of social media marketing tools	Understand	The learner will try to **explain** about best practices with use of social media marketing tools	CO 5
7	What is meant by social computing and explain about the associated challenges for organizations	Understand	The learner will try to **recall** the importance of social computing and then **explain**associated challenges for organizations	CO 4
8	Explain about the Insider Attack Example: Heartland payment System Fraud	Remember	The learner will try to **recall** the concept of Insider Threads and then **explain**the example Heartland Payment	CO 5

9	Explain how vehicle optimization is carried out for an stage launch vehicle	Understand	The learner will try to **recall** the importance of staging of rocket and then **explain**s the vehicle optimization procedure for an launch vehicle	CO 4
10	What factors promote smooth stage separation for a multistage vehicle	Understand	The learner will try to **recall** the concept of multistage rocket and then **explain** its parameters	CO 5
11	Rephrase the social computing and the associated challenges for organizations	Understand	The learner will try to **recall** the concept of social computing and then **explain** the associated challenges for organizations	CO 5
12	Demonstrate the cyber security perspective with a neat sketch	Understand	The learner will try to **recall** the concept of social computing and then **explain** the associated challenges for organizations	CO 4
13	Rephrase the costs associated with cybercrime incidents	Understand	The learner will try to **rephrase** the costs associated with cybercrime incidents	CO 5
14	Demonstrate the overview of web threats in an organization	Understand	The learner will try to **recall** the concept of web threats in an organization	CO 5
15	Demonstrate the key challenges from emerging new information threats to organizations	Understand	The learner will try to **explain** the key challenges from emerging new information threats to organizations	CO 4
16	Evaluate the kinds of spheres and their characteristics in Security and privacy implications from cloud computing	Understand	The learner will try to **recall** the Security and privacy implications from cloud computing and then **explain**the kinds of spheres and their characteristics	CO 5
17	Describe Social Media Marketing Tools with a neat sketch	Understand	The learner will try to **recall** the concept Social Media Marketing Tools and then **explain** the associated challenges for organizations	CO 5

18	Rephrase the social computing and the associated challenges for organizations	Understand	The learner will try to **recall** the concept of social computing and then **explain** the associated challenges for organizations	CO 4
20	Evaluate the understanding of Social Media Marketing in the cyber security	Understand	The learner will try to **explain** the understanding of Social Media Marketing in the cyber security	CO 5
<td colspan="5" align="center">**PART-C SHORT ANSWER QUESTIONS**</td>
1	Define insider threat	Understand	The learner will try to **recall** the definition of insider attacks cryogenic temperatures	CO 4
2	Define Flow and Connections of Cyber crime	Understand	The learner will try to **recall** the definition of cyber crime and explain it's flow and connections	CO 5
3	Define Industrial espionage?	Understand	The learner will try to **recall** the definition of Industrial espionage	CO 5
4	What is IP-based blocking?	Understand	The learner will try to **recall** the definition of IP-based blocking	CO 5
5	What is IP-based "cloaking"?	Understand	The learner will try to **recall** the definition of IP-based "cloaking"	CO 4
6	What is User sphere?	Understand	The learner will try to **recall** the definition of User sphere	CO 5
7	What is Recipient sphere?	Understand	The learner will try to **recall** the definition of Recipient sphere	CO 5
8	What is Joint sphere?	Understand	The learner will try to **recall** the definition of Joint sphere	CO 5
9	List out the data that is included in PI(Personal Information)?	Understand	The learner will try to **recall** the list of data that is included in PI	CO 5
10	What is Malicious insider?	Understand	The learner will try to **recall** the definition of Malicious insider	CO 4

11	What is careless insider?	Understand	The learner will try to **recall** the definition of careless insider	CO 5
12	What is tricked insider?	Understand	The learner will try to **recall** the definition of Joint sphere	CO 4
13	Write a short notes on Heartland payment system fraud ?	Understand	The learner will try to **recall** the meaning of Heartland payment	CO 5
14	Write a sort notes on Blue shield Blue Cross(BCBS)?	Understand	The learner will try to **recall** the meaning of Blue shield Blue Cross(BCBS)	CO 4
15	Define Industrial Espionage?	Understand	The learner will try to **recall** the definition of Industrial Espionage	CO 5
16	What is IP based blocking?	Understand	The learner will try to **recall** the meaning of IP based blocking	CO 5
17	Describe the meaning of IP based "cloaking"	Understand	The learner will try to **recall** the definition of Joint sphere	CO 4
18	What is cyberterrorism?	Understand	The learner will try to **recall** the definition of cyberterrorism	CO 5
19	What is Confidential information Leakage?	Understand	The learner will try to **recall** the definition of Confidential information Leakage	CO 5
20	List out any three reasons by employees, for use of pirated software ?	Understand	The learner will try to **recall** liost of reasons by the employees for use of pirated software	CO 4
MODULE V				
CYBERCRIME: EXAMPLES AND MINI-CASES EXAMPLES				
PART A- CRITICAL THINKING QUESTIONS)				
1	Explain the role of IT Experts in restoring the official website of Maharashtra Government.	Understand	The learner will try to **recall** the real life example of official website of Maharashtra Government Hacked	CO 6
2	List out the number of states that lose millions of rupees in banks from India	Remember	The learner will try to **recall** the real life example of the Indian Banks Lose Millions of Rupees	CO 5

3	Briefly illustrate about the parliament attack by the terrorists with facke ID's	Remember	The learner will try to **recall** the techniques used by the terrorists in parliament attack	CO 6
4	What is the crucial part of Pune city Police in Nigerial Racket?	Remember	The learner will try to **recall** the crucial part of Pune city Police and then **explain** their duties done in that case.	CO 5
5	Evaluate any two examples of email spoofing	Remember	The learner will try to **recall** materials of liquid rocket engine and then **explain** the mechanical and chemical properties of these materials	CO 6
6	Explain how Hawala systems helps to the Indian case of Online Gambling	Remember	The learner will try to **recall** the events happened in the case Indian case of Online Gambling	CO 5
7	Demonstrate the role of court in the Indian case of Intellectual Proprty crime	Remember	The learner will try to **recall**the role of court in the Indian case of Intellectual Proprty crime	CO 6
8	Evaluate the concept of E-mail spoofing instances	Remember	The learner will try to **recall**the concept of E-mail spoofing instances	CO 5
9	Discuss the E-mail spoofing instance example	Remember	The learner will try to **recall**the role of court in the Indian case of Intellectual Proprty crime	CO 6
10	Demonstrate how Indian banks lose millions of rupees	Remember	The learner will try to **recall**the case study Indian Bank Lose millions of Rupees	CO 5
PART-B LONG ANSWER QUESTIONS				
1	Elaborate the scenarios, on how the official website of Maharashtra was hacked	Remember	The learner will try to **recall** how the official website of Maharashtra was hacked	CO 5
2	Explain how Indian Banks Lose Millions of Rupees	Remember	The learner will try to **recall** how Indian Banks Lose Millions of Rupees	CO 6

3	Explain the case study of parliament attack by terrorists	Remember	The learner will try to **recall** the parliament attack by terrorists	CO 5
4	Explain how Pune City Police Bust Nigerian Racket	Remember	The learner will try to **recall** how Pune City Police Bust Nigerian Racket	CO 6
5	Describe how the American teenager made millions of dollars through email spoofing	Remember	The learner will try to **recall** the concept of email spoofing	CO 5
6	Explain the Indian Case of online Gambling	Remember	The learner will try to **recall** the Indian Case of online Gambling	CO 6
7	Elaborate an Indian Case of Intellectual Property Crime	Remember	The learner will try to **recall** the importance and the need of rocket testing	CO 6
8	Illustrate the Financial Frauds in Cyber Domain	Remember	The learner will try to **recall** materials used in aerospace and then **explain** the performance parameters and its selection criteria.	CO 5
9	Illustrate credit card-related frauds	Remember	The learner will try to **recall** credit card related frauds in cyber domain	CO 6
10	Explain the role of BPRD in Parliment attack	Remember	The learner will try to **explain** the role of BPRD in parliment attack	CO 6
11	Demonstrate the role of court in the Indian case of Intellectual Proprty crime	Remember	The learner will try to **recall**the role of court in the Indian case of Intellectual Proprty crime	CO 5
12	Illustrate official frauds in cyber domain	Remember	The learner will try to **explain** the official frauds in cyber domain	CO 6
13	Explain about the case study "The Indian case of Online Gambling"	Remember	The learner will try to **explain** about case study "The Indian case of Online Gambling"	CO 5
14	Explain about "The Indian case of Intellectual Propery"	Remember	The learner will try to **explain** about "The Indian case of Intellectual Propery"	CO 6

15	Illustrate the effects of cybersqattering in cyber crimes.	Understand	The learner will try to **explain** about the effects of cybersqattering in cyber crimes.	CO 6
16	Explain about Phishing Incident in Banking related frauds	Understand	The learner will try to **explain** about Phishing Incident in Banking related frauds	CO 5
17	Explain about Online credit card theft ring in credit card related frauds	Understand	The learner will try to **explain** about Phishing Incident in Banking related frauds	CO 6
18	Explain credit card frauds happen at ATM's	Understand	The learner will try to **explain** about credit card frauds happen at ATM's	CO 5
19	Breifly explain about Credit card Skimmer devices	Understand	The learner will try to **explain** about credit card skimmer tools	CO 6
20	Illustrate fake mails promising tax refunds	Understand	The learner will try to **explain** about fake mails promising tax refunds	CO 5
21	Breifly explain how phone scam targets your bank accounts	Understand	The learner will try to **explain** about phone scam targets your bank accounts	CO 6
PART-C SHORT ANSWER QUESTIONS				
1	Write a short notes on the case study Official website of Maharashtra Government Hacked	Understand	The learner will try to **recall** the case study Official website of Maharashtra Government Hacked	CO 5
2	Describe any three points on the Indian Bank lose millions of rupees	Understand	The learner will try to **recall** the the case study Indian Bank lose millions of rupees	CO 6
3	Expand BPRD and explain in detail.	Understand	The learner will try to **recall** the definition of Industrial espionage	CO 5
4	What is the statement given by the victim in the case study "Pune City Police Bust Nigerian Racket"	Understand	The learner will try to **recall** the the case study "Pune City Police Bust Nigerian Racket"	CO 6
5	What is IP-based cloaking?	Understand	The learner will try to **recall** the definition of IP-based "cloaking"	CO 5

6	What is User sphere?	Understand	The learner will try to **recall** the definition of User sphere	CO 5
7	What is Recipient sphere?	Understand	The learner will try to **recall** the definition of Recipient sphere	CO 6
8	What is Joint sphere?	Understand	The learner will try to **recall** the definition of Joint sphere	CO 5
9	Write a short notes on Banking Related Frauds?	Understand	The learner will try to **explain** about Banking Realted Frauds	CO 6
10	Write a short notes on Credit card related frauds	Understand	The learner will try to **explain** Credit card related frauds	CO 5
11	Write a short notes on hand held related frauds related frauds	Understand	The learner will try to **explain** hand held devices frauds	CO 6
12	Write a short notes on Indian case of Online Gambling	Understand	The learner will try to **explain** about Indian case of Online Gambling	CO 5
13	What is Gambling	Understand	The learner will try to **explain** about Gambling from Indian case of Online Gambling	CO 6
14	Illustrate the stolen credit card information in banking related frauds	Understand	The learner will try to **explain** about the stolen credit card information in banking related frauds	CO 5
15	Write a short notes on phishing incidence in banking related frauds in cyber security	Understand	The learner will try to **explain** about phishing incidence in banking related frauds in cyber security	CO 6
16	Write a short notes on online credit card theft ring in credit card related frauds	Understand	The learner will try to **explain** about phishing incidence in banking related frauds in cyber security	CO 6
17	WWhat are the entities that are involved in cedit card transactons	Understand	The learner will try to **explain** about the entities that are involved in cedit card transactons	CO 5
18	Classify the credit card frauds in cyber security	Understand	The learner will try to **classify** the credit card frauds in cyber security	CO 6

19	Draw a neat sketch of man in the middle attack	Understand	The learner will try to **explain** about man in the middle attack	CO 5
20	Write a short notes on shadowcrew - The Internet Mafia Gang	Understand	The learner will try to **explain** about phishing incidence in banking related frauds in cyber security	CO 5

Course Coordinator: **HOD, CSE(CS)**
Mr.Y Manohar Reddy