DCS-1-01T: Data Communication and Networks

Total Marks: 100 External Marks: 70 Internal Marks: 30

Credits: 4

Pass Percentage: 40%

Course	Course: Data Communication and Networks		
Course	e Code: DCS-1-01T		
Course	e Outcomes (COs)		
After the	he completion of this course, the students will be able to:		
CO1	Understand the fundamental concepts in data communication and networking		
CO2	Explore real-world applications of principles of network design, topology, and the		
	OSI/TCP/IP model		
CO3	Develop the ability to identify and formulate problems related to computer network		
CO4	Apply networking knowledge to design and configure basic computer networks,		
	addressing schemes and Routing Protocols		
CO5	Describe the basic concepts, principles, and techniques for the development of		
	networks and trouble shooting		

Section A

Module	Module Name	Module Content
Module I	Basic concepts	Basic Concepts: Components of data communication, modes of communication, standards and organizations, Network Classification, Network Topologies; Transmission media, network protocol; layered network architecture.
Module II	Models	Models: Overview of OSI reference model; TCP/IP protocol suite. Physical Layer: Cabling, Network Interface Card, Transmission Media Devices- Repeater, Hub, Bridge, Switch, Router, Gateway; Transmission impairments.
Module III	Data Link Layer, Network Layer and Transport Layer	Framing techniques; Error Control; Flow Control Protocols; Shared media protocols - CSMA/CD and CSMA/CA. Virtual Circuits and Datagram approach, IP addressing methods – Sub netting; Routing Algorithms (adaptive and non-adaptive) Elements of transport protocols - Addressing, Connection establishment and release, Flow control and buffering, Transport services, Transport Layer protocol of TCP and UDP.

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Module VI	Session Layer,	Session Layer: Design issues, remote procedure call.	
	Presentation Layer,	Presentation Layer: Design issues, Data compression	
:	Application Layer	techniques, Cryptography	
	and Network	Common Terms, Firewalls, Virtual Private Networks	
	Security	,	

- 1. B.A. Forouzan, "Data Communication and Networking", 4th Ed., Tata McGraw Hill, 2017.
- 2. A. S. Tanenbaum, "Computer Networks", 5th Ed., Pearson, 2011
- 3. D.E. Comer, "Internetworking with TCP/IP", vol. I, PHI, 2015
- 4. W. Stalling, "Data & Computer Communication", 8th Ed., PHI, 2013
- 5. D. Bertşekas, R. Gallager, "Data Networks", 2nd Ed., PHI, 1992

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DCS-1-02T: Operating Systems

Total Marks: 100 External Marks: 70 Internal Marks: 30

Credits: 6

Pass Percentage: 40%

0	G. Ownering Cristoms			
	Course: Operating Systems			
	Code: DCS-1-02T			
Course	Outcomes (COs)			
After th	ne completion of this course, the students will be able to:			
CO1	Understand the structure of computing systems, from the hardware level through the			
001	an existing system level and onto the applications level.			
CO2	Understand basics of operating system viz. system programs, system calls, user mode			
CO2	and Iromal mode			
	Learn the working with CPU scheduling algorithms for specific situation, and analyze			
CO3	Learn the working with Cr U scheduling algorithms for specific			
	the environment leading to deadlock and its rectification.			
CO4	the environment reading to deductors and the transfer transfer the memory management techniques viz. caching, paging, segmentation,			
	winted mamory and thrashing			
CO5	Apply Methods for Handling Deadlocks, Deadlock Prevention, and Recovery from			
	Deadlock.			

Detailed Contents:

Module	Module Name	Module Contents
Module 1	Introduction and System Structures	Computer-System Organization, Computer-System Architecture, Operating-System Structure, Operating-System Operations, Process Management, Memory Management, Storage Management, Protection and Security, Computing Environments, Operating-System Services, User and Operating-System Interface, System Calls, Types of System Calls, System Programs.
Module II	Process Management	Process Concept, Process Scheduling, Operations on Processes, Multi-threaded programming: Multithreading Models, Process Scheduling: Basic Concepts, Scheduling Criteria, and Scheduling Algorithms. Deadlock: System Model, Deadlock
Module III	Deadlock	Deadlock: System Model, Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery from

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	10	Deadlock.
Module IV	Memory Management	Basic Hardware, Address Binding, Logical and
		Physical Address, Dynamic linking and loading,
		Swapping, Contiguous Memory Allocation,
		Segmentation, Paging, Demand Paging, Page
		Replacement algorithms.
Module V	File Systems	File Systems: File Concept, Access Methods,
		Directory and Disk Structure, File-System
		Structure, File-System Implementation,
		Directory Implementation, Allocation Methods,
		Free-Space Management.
Module VI	Introduction to Linux and	Linux's shell, Kernel, Features of Linux, File
	Linux Commands	System: Filenames, Introduction to different
		types of directories: Parent, Subdirectory, Home
		directory; rules to name a directory, Important
		directories in Linux File System, Linux
		Commands: cal, date, echo, bc, who, cd, mkdir,
		rmdir, ls, cat cp, rm, mv, more, gzip, tar, File
	*	ownership, file permissions, chmod, Directory
		permission, change file ownership.

- 1. A Silberschatz, P.B. Galvin, G. Gagne, "Operating Systems Concepts", 8th Ed., John
- Wiley Publications, 2009

 2. A.S. Tanenbaum, "Modern Operating Systems", 3rd Ed., Pearson Education, 2014

 3. G. Nutt, "Operating Systems: A Modern Perspective", 2nd Ed., Pearson Education,

4. S. Das, "Unix Concepts and Applications", 4th Ed., McGraw Hill Education, 2017

DCS-1-02P: Operating Systems Lab

Total Marks: 50 External Marks: 35 Internal Marks: 15

Credits: 2

Pass Percentage: 40%

Course	Course: Operating Systems Lab		
	Code: DCS-1-02P		
Course	Outcomes (COs)		
	After the completion of this course, the students will be able to:		
CO1	Understand Basics of UNIX/LINUX		
CO2	Demonstrate the installation process of various operating systems.		
CO3	CO3 Apply UNIX/LINUX operating system commands.		
CO4	Understand different UNIX/LINUX shell scripts		
CO5	Implement and execute various shell programs.		

Detailed List of Programs:

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Programme No.	Name of Program		
P1	Install UNIX/LINUX – Complete Step by Step		
P2	Study of Basic UNIX Commands and various UNIX editors such as vi,		
	ed, ex and EMACS		
P3	Write a shell script that deletes all lines containing the specified word		
	in one or more files Supplied as arguments to it.		
P4	Write a shell script that displays a list of all files in the current directory to		
	which the user has read, write and execute permissions		
P5	Write a shell script that receives any number of file names as arguments		
	checks if every argument supplied is a file or directory and reports		
	accordingly. Whenever the argument is a file it reports no of lines present		
	in it		
P6	Write a shell script that accepts a list of file names as its arguments,		
	counts and reports the occurrence of each word that is present in the		
	first argument file on other argument files.		
P7	Write a shell script to list all of the directory files in a directory		
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P8	Write a shell script to find factorial of a given number		
- DO			
P9	Write an awk script to count number of lines in a file that does not		
	contain vowels		
P10	Write an awk script to find the no of characters ,words and lines in a		
	file		
P11	Implement in C language, the following Unix commands using system		
	calls		
	a) cat		
	b) ls		
	c) mv		
P12	Write a C program that takes one or more file/directory names as		
	command line input and reports following information		
P13	Write a C program to list every file in directory, its inode number and file		
	name		
P14	Write a C program to create zombie process		
P15	Write a C program to illustrate how an orphan process is created		
P16	Write client server programs using c for interaction between server and		
	client process using Unix Domain sockets		

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ICS-1-02T: Introduction to Cyber Security

Total Marks: 100 External Marks: 70 Internal Marks: 30

Credits: 4

Pass Percentage: 40%

The As Cychor Socurity				
Course	Course: Introduction to Cyber Security			
Course	Code: ICS-1-02T			
A 0.00 100	Course Outcomes (COs) After the completion of this course, the students will be able to: After the completion of this course, the students will be able to:			
CO1	TI 1 stand naturally security threats, security scryices, and countries			
CO2	Linderstand principles of network security by monitoring and analyzing the nature of			
	attacks through cyber/computer forensics software/tools. CO3 Develop cyber security strategies and policies			
CO3	1 Company and troubleshoot cyner security systems.			
CO4	Measure the performance and troubleshoot eyest seeming			
CO5	Understand various Cryptographic Techniques			

Detailed Conten	its:	To the Contract
Module No.	Module Name	Module Contents Types Assets:
Module I Module I	Cyber Attacks and Security	Cyber Attacks: Introduction, Types. Assets: Identification, Accountability. Vulnerability and Threats, Risk Management, Qualitative Risk Assessment, Information Security Framework: Introduction, Policies, Standards, Baselines, Guidelines and Procedures. Security: Basics, User Access Controls, Authentication, Access Control: Framework, Techniques and Technologies, Training and Awareness and Its types, Technical Security Controls: Preventive, Detective, Corrective. Protection form malicious attacks.
Module II	Networks and Communication & Software Engineering Life Cycle::	Communication, Characteristics and components, Data flow. Computer Network, Categories, Protocol, External Services, Cloud Computing: Introduction, Models, Benefits, Challenges, Private, Public Clouds. Software Engineering Life Cycle: Stages, Models: Waterfall, Iterative, Spiral, V Model, Big Bang, Agile, RAD, Prototype.
Module III	Authentication	Authentication: Authentication Vs Authorization, Methods and Protocols: Kerberos, SSL, Protocol, Password Authentication, Challenge-Handshake Authentication (CHAP), MSCHAP, Extensible Authentication, Remote Authentication.

Module IV	Investigation Techniques & Cyber Forensics and Cryptography:	Service Set Identification (SSID), Encryption Methods: Wire Equivalent Privacy, WPA, WPA2, MAC Filtering, Wireless Routers, Creating Wireless Network, WLAN. Investigation Techniques and Cyber Forensics: Types of Investigation, Evidence and Analysis, Steps for Forensics Investigation, Forensics Tools, Investigation, Common Types of Email Abuse, Tracking Location of Email Sender, Scam or Hoax Emails and Websites, Fake Social Media Profile. Cryptography: Objectives, Type, OS Encryption, Public key Cryptography.
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- 1. Mayank Bhushan, Rajkumar Singh Rathore, Aatif Jamshed, "Fundamentals of Cyber Security", BPB Publications.
- 2. Nina Godbole, SModule Belapure, "Cyber Security", Wiley.
- 3. Sanil Nadkarni, "Fundamentals of Information Security", pbp.
- Mike Chapple, James Michael Stewart, Darril Gibson, "CISSP Certified Information Systems Security Professional Official Study Guide" 9th Ed., SYBEX, A Wiley Brand.
- 5. William Chuck Eastton, "Computer Security Fundamentals", 4th Edition, Pearson.

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ICS-1-02P: Introduction to Cyber Security Lab

Total Marks: 50 External Marks: 35 Internal Marks: 15

Credits: 2

Pass Percentage:

40%

Course Name: Introduction to Cyber Security Lab			
Course C	ode: ICS-1-02P		
Course Outcomes (COs)			
After the	completion of this course, the students will be able to:		
CO 1	1 1 and a sympletic threats inclining malwait, phishing		
COI	attacks and network vulnerabilities.		
	Apply techniques to detect, mitigate, and respond to various types of cyber		
CO 2	Apply techniques to detect, intrigate, and respond to the same of		
	threats.		
CO 3	Implement security configurations for operating systems, network devices, and		
	liations		
	Apply ethical hacking techniques to identify and exploit vulnerabilities in		
CO 4	Apply ethical nacking techniques to identify and local practices		
	controlled environments, emphasizing responsible and legal practices.		
CO5	Implement cryptographic techniques for security purpose		
003			

Detailed Contents:

Detailed Contents.			
S. No.	Name of Experiments		
1	How to identify open ports, services, and potential vulnerabilities on target systems.		
2	How to scan and enumerate devices on a network using Nmap tool.		
3	How to analyse the malware in a controlled environment.		
4	Conduct an experiment for phishing simulation to demonstrate common phishing tactics.		
5	How to configure a firewall to control incoming and outgoing network traffic.		
6	Design and implement the rules to permit or deny specific types of traffic.		
7	Design and implement the secure communication using tools like OpenSSL or GPG.		
8	Simulate various common password cracking techniques.		
9	Study of Computer Forensics and different tools used for forensic investigation		
10	How to encrypt and decrypt messages using the chosen algorithm and analyze the		

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DCS-2-01T: Digital Forensics

Total Marks: 100 External Marks: 70 Internal Marks: 30

Credits: 6

Pass Percentage:40%

Course Name: Digital Forensics				
Course C	Course Code: DCS-2-01T			
Course Outcomes (COs) After the completion of this course, the students will be able to:				
After the completion of this course, the statements of digital forensics.				
CO 1	Understand the principles and concepts of digital forensics.			
CO 2	Understand various types of cyber crimes Analyze computer architectures, file systems, and operating systems relevant to			
CO3	Analyze computer architectures, the systems, and opening			
	digital forensics investigations. Understand the legal and ethical considerations associated with digital forensics,			
CO 4	1 1 1 1 - Jesiggibility of digital evidence in court.			
	Utilize popular forensic tools and software for digital investigations.			
CO 5	Utilize popular forensic tools and software for any			

Detailed Conten		M. Iula Contents
Module No.	Module Name	Module Contents - digital foransics definition
Module I	Introduction to Digital Forensics	 Introduction to digital forensics, definition and scope of digital forensics Different Branches of Digital Forensics Importance and applications of digital forensics in law enforcement and cybersecurity. Definition and types of cybercrimes
Module II	Cyber Crime and Computer Crime	 Electronic evidence and handing, electronic media, collection, searching and storage of electronic media, Introduction to internet crimes Hacking and cracking, credit card and ATM frauds, web technology, cryptography, emerging digital crimes and modules
Module III	Computer Fundamentals for Digital Forensics	 Basic Computer Organization Analysis of File systems and Data Structures Memory organization concept Data storage concepts Basics of operating systems and their role in digital forensics. Investigating network-based attacks. Analysing network traffic and logs. Understanding volatile memory. Windows Systems and Artifacts Linux Systems and Artifacts
Module IV	Legal aspects of	Understanding of legal aspects and their

	District i	T
	Digital Forensics	Total totalics, Licenomics
		discovery
		Overview of legal and ethical issues in
		digital forensics.
		• Types of digital evidence (e.g.,
		documents, emails, logs).
		• Collection, preservation, and
		documentation of digital evidence.
		Preparing forensic reports.
		Providing expert testimony in court.
Module V	Forensic Tools	Admissibility of digital evidence in court.
	rotensic 100is	Introduction to Forensic Tools
		Usage of Slack space Tools S. District
		Tools for Disk Imaging, Data Recovery, Value of 117.
		Vulnerability
		Assessment Tools, Encase and FTK tools Anti-Forensics and probable assuments.
		and probable counters
Module VI	Processing of	
	Electronic	 Process of computer forensics and digital investigations
	Evidence	
		 Processing of digital evidence, digital images, damaged SIM and data recovery,
		multimedia evidence
		Retrieving deleted data: desktops, laptops
		and mobiles
	~	Retrieving data from slack space, renamed
		file, ghosting, compressed files
		Techniques for analysing and extracting
		information from computer memory
		• Forensic analysis of smartphones and
		tablets.

- 1. C. Altheide & H. Carvey, "Digital Forensics with Open Source Tools", Syngress
- 2. John Sammons "The Basics of Digital Forensics", Syngress
- 3. Brain Carrier "File System Forensic Analysis", Addison-Wesley
- 4. Harlan Carvey "Advanced Digital Forensic Analysis of the Windows Registry", Syngress
- 5. Diane Barrett "Virtualization and Forensics A Digital Forensic Investigator's Guide to Virtual Environments", Syngress
- 6. B. Nelson, A. Phillips, and C. Steuart "Guide to Computer Forensics and Investigations", Cengage

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DCS-2-02T: Cyber Attacks and Counter Measures

Total Marks: 100 External Marks: 70 Internal Marks: 30

Credits: 6
Pass Percentage: 40%

Course N	Course Name: Cyber Attacks and Counter Measures Course Code: DCS-2-02T		
Course Outcomes (COs) A floor the completion of this course, the students will be able to:			
CO 1	Understand the importance of a network basics and brief introduction on		
CO 2	Demonstrate a solid understanding of foundational cybersecurity concepts,		
CO 3	Apply risk assessment methodologies to evaluate and prioritize potential		
CO 4	Design and develop security plans and strategies to ensure the integrity of information in compliance with best practices, relevant policies, standards, and		
CO 5	regulations. Evaluate the impact of cybersecurity decisions on privacy, compliance, and organizational reputation, and adhere to ethical standards in the field.		

Detailed Contents:

	Madula Nama	Module Contents
Module No.	Module Name	Collars annity: Fundamental
Module 1	Introduction to	Overview of Cyberseculity. Fundamental It is a times and importance.
	Cybersecurity	concepts, objectives, and importance.
	and Threat	Cyber Threat Landscape: Types of cyber
	Landscape	threats, attack vectors, and motivations.
	-	Current Trends: Analysis of recent cyber
,		threats and emerging trends in the
		cybersecurity landscape.
	G	Overview of Security Fundamentals.
Module II	Security	n ' ' 1 -
	Fundamentals	
		protocols, and standards in cybersecurity.
Module III	Risk Assessment	Vulnerability Assessment: Techniques for
Tyloudic 111		identifying and assessing vulnerabilities.
		 Risk Management: Understanding risk,
	¥	assessing potential impacts, and
		prioritizing security measures.
Module IV	Implementing	
	Security	
	Measures and	including firewalls, antivirus, encryption,
	Incident	and access controls.
	Response	• Incident Response Planning: Developing
90		and implementing an incident response
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		 plan. Security Monitoring: Using tools and techniques to monitor for potential security incidents.
Module V	Ethical Hacking, Penetration Testing	 Ethical Hacking: Introduction to ethical hacking principles and practices. Penetration Testing: Conducting controlled attacks to identify and address vulnerabilities.
Module VI	Legal Considerations	 Legal and Ethical Considerations: Understanding the legal and ethical aspects of cybersecurity, including compliance, privacy, and responsible disclosure.

- 1. Sammons, John, and Michael Cross, "The basics of cyber safety: computer and mobile device safety made easy", Syngress
- 2. Charles P. Pfleeger, Shari Lawrence, Pfleeger Jonathan Margulies, "Security in Computing", Pearson
- 3. Brooks, Charles J., Christopher Grow, Philip Craig, and Donald Short, "Cybersecurity essentials", Sybex
- 4. William Stallings "Network Security Essentials", Pearson
- 5. Ross J. Anderson "Security Engineering: A Guide to Building Dependable Distributed Systems", 2nd Ed., John Wiley & Sons

DCS-2-02P: Cyber Attacks and Counter Measures Lab

Total Marks: 50 External Marks: 35 Internal Marks: 15

Credits: 2

Pass Percentage:

40%

Course N	Course Name: Cyber Attacks and Counter Measures			
Course C	ode: DCS-2-02P			
0	Company (COs)			
After the	1 .: Calling courses the stildents will be able to.			
CO 1	Develop skills in configuring security settings for operating systems,			
	and applications.			
CO 2	Analyse network traffic using tools like Wireshark.			
CO 3	Analyse network traffic using tools like with the conduct vulnerability assessments to identify potential weaknesses and			
	appropriate countermeasures.			
CO 4	t at the analysis nativork traffic and system 1098 in real-time.			
CO 5	Apply tools to analyze network traffic and system of the Understand and apply secure coding practices to develop resilient software.			

Detailed	etailed Contents:		
S. No.	Name of Experiment		
1	How to create signatures to detect and block the malware using antivirus or intrusion detection systems.		
	How to capture and analyse network traffic using tools like Wireshark.		
2			
	How to configure and test an intrusion detection system to identify and respond to		
3	malicious activities.		
	Implement the firewall rules by simulating different attack scenarios and		
4	assessing the effectiveness of the configured rules.		
	Conduct a phishing simulation to test user awareness and susceptibility.		
5	Evaluate the effectiveness of implemented countermeasures and educate users on		
6			
	recognizing phishing attempts. Develop and implement a patch management plan to address identified		
7			
	vulnerabilities. Simulate a cybersecurity incident and implement an incident response plan.		
8			
0	Perform security testing on a web application to identify and remediate common		
9	vulnerabilities.		
	How to implement countermeasures to mitigate the impact of the attack and		
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CL-2-03T: Cyber Laws

Total Marks: 100 External Marks: 70 Internal Marks: 30

Credits: 6

Pass Percentage:40%

·				
Course Name: Cyber Laws				
Course C	Course Code: CL-2-03T			
Course Outcomes (COs) A four the completion of this course, the students will be able to:				
CO 1	Understand various types of cyber crimes Understand various types of cyber crimes and its critical analysis			
CO 2	Understand various types of cyber crimes Understand Indian Laws to deal with Cyber Crimes and its critical analysis Understand Legal Recognition of Electronic Records and Electronic Evidence Understand Legal Recognition			
CO 3	Understand Legal Recognition of Electronic Records and Electronic Re			
CO 4	Examine and interpret laws related to cybererines, intra-			
	theft, and online fraud. Explore the legal aspects of intellectual property rights, including copyright,			
CO 5	patents, and trademarks, in the digital environment.			

Detailed Content	its:	Tr. I. I. Contents
Module No.	Module Name	Module Contents
Module I Module II	Introduction to Cyber Crimes Indian Cyber Laws	Cybercrimes and related offences and penalties: Introduction to Cybercrimes, Classification of cybercrimes, Distinction between cybercrime and conventional crimes, Reasons for commission of cybercrime, Kinds of cybercrimes — cyber stalking; cyber pornography; forgery and fraud; crime related to IPRs; Cyber terrorism; Spamming, Phishing, Privacy and National Security in Cyberspace, Cyber Defamation and hate speech, computer vandalism etc. Provisions in Indian Laws in dealing with Cyber Crimes and its critical analysis, Information Technology Act, 2000, Penalties under IT Act, Offences under IT Act, Offences and Analysis related with Digital Signature and Electronic Signature under IT Act, Statutory Provisions,
Module III	Electronic Governance	Establishment of Authorities under IT Act and their functions, powers. Cybercrimes under IPC Legal Recognition of Electronic Records and Electronic Evidence -Digital Signature Certificates - Securing Electronic records and secure digital signatures - Duties of Subscribers - Role of Certifying Authorities - Regulators under
/ Module IV	Cr. P. C and	the IT Act -The Cyber Regulations Appellate Tribunal - Internet Service Providers and their Liability— Powers of Police under the IT Act— Impact of the IT Act on other Laws. Cybercrimes under the Information Technology

Act, 2000 - Cybercrimes under International Law
- Hacking Child Pornography, Cyber Stalking,
Denial of service Attack, Virus Dissemination,
Software Piracy Internet D. 1. Cl
Software Piracy, Internet Relay Chat (IRC) Crime,
and the same of th
Credit Card Fraud, Net Extortion, Phishing etc -
Cyber Terrorism Violation of Privacy on Internet
- Data Protection and Privacy - Indian Court
cases
Copyrights – Software – Copyrights vs Patents
debate - Authorship and Assignment Issues -
Copyright in Internet - Multimedia and Copyright
issues - Software Piracy - Trademarks -
Trademarks in Internet
Trademarks in Internet – Copyright and Trademark cases
Examination of international frameworks and
agreements related to cybersecurity.
Analysis of the challenges and legal
considerations associated with cross-border cyber
threats.
Exploration of emerging legal issues in
cybersecurity, including artificial intelligence,
blockchain, and the Internet of Things (IoT).

- 1. "The Information Technology Act, 2000 Bare Act with Short Notes", Universal Law Publishing Co., New Delhi
- 2. Justice Yatindra Singh, "Cyber Laws", Universal Law Publishing Co., New Delhi
- 3. Farouq Ahmed, "Cyber Law in India", New Era publications, New Delhi
- 4. S. R. Myneni, "Information Technology Law (Cyber Laws)", Asia Law House, Hyderabad.
- 5. Chris Reed, "Internet Law-Text and Materials", Cambridge University Press.
- 6. Pawan Duggal, "Cyber Law- the Indian Perspective", Universal Law Publishing Co., New Delhi.
- 7. Elias. M. Awad, "Electronic Commerce", Prentice-Hall of India Pvt. Ltd