



GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Engineering

Level: Postgraduate

Branch: Computer Engineering (Cybersecurity)

Course / Subject Code: ME01059011

Subject Name: Cyber Laws and Regulatory Provisions

w. e. f. Academic Year:	: 2024-25
Semester:	: 1
Category of the Course:	: Program Core Course-I

Prerequisite:	<ul style="list-style-type: none">• Computer knowledge, Internetworking concepts, Legal aspects
Rationale:	<ul style="list-style-type: none">• In our increasingly digital world, where technology permeates nearly every aspect of personal and professional life, the need for comprehensive understanding and regulation of cyber activities has never been more critical. The postgraduate course in Cyber Laws and Regulatory Provisions addresses this need by equipping students with the knowledge and skills necessary to navigate the complex landscape of cyber law and regulation. This course is designed to respond to the evolving challenges and opportunities presented by the digital age.

• Course Outcome:

After Completion of the Course, Students will be able to:

No	Course Outcomes	RBT Level
01	Understand the legal aspects of cyberspace and the internet.	UN
02	Differentiate modern cyber-attacks along with the need for digital forensic	AN
03	Analyze the various regulatory frameworks governing cyber activities.	AN
04	Interpretation of the various regulatory provisions	AN
05	Understand the Intellectual property issues in cyberspace and ethical dilemmas.	UN

*Revised Bloom's Taxonomy (RBT)

• Teaching and Examination Scheme:

Teaching Scheme (in Hours)			Total Credits L+T+ (PR/2)	Assessment Pattern and Marks				Total Marks
L	T	PR	C	Theory		Tutorial/Practical		
				ESE (E)	PA/CA (M)	PA/CA (I)	ESE (V)	
03	00	02	04	70	30	20	30	150



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• Course Content:

Unit No.	Content	No. of Hours	% of Weightage
1	UNIT-I: Introduction: Cyberspace, Cybersecurity, Nature of threats, Enabling peoples, Cybercriminals, Cybersecurity Policy, Current cybercrime scenario and challenges.	04	10
2	UNIT-II: Categories of Cybercrimes: Active and Passive attacks, How Criminals plan them, Tools and Methods used in cybercrime, Social Engineering, Classification of the cybercrimes	04	10
3	UNIT-III: Legal Framework for Cyber Laws: Cybercrime, and the Legal Framework for the Cyber Laws, The Indian IT Act and amendments, Challenges to Indian Law and Cybercrime Scenario in India, Digital Signatures and the Indian IT Act, Legal Provisions and Penalties, Indian Scenario, Other National Cyber Laws and Comparison of Cyber Laws across Countries	06	15
4	UNIT-IV: Computer Ethics, Privacy & Legislation: Computer ethics, Moral and Legal issues, Negotiable Instruments Act 1881(Amended), IPC and CrPC, Electronic Communication Privacy ACT, Digital Personal Data Protection (DPDP) Act, 2023,	06	15
5	UNIT-V: Regulatory Authorities and Legal Remedies: National Regulatory Authorities: CERT-IN (India), CBI, RBI Regulations on Cyber Security, Roles and Responsibilities of Regulatory Bodies, Legal Remedies and Adjudication - Filing Complaints, Cyber Tribunals, Adjudicating Officers, Legal Procedures for Cyber Disputes	06	15
6	UNIT-V: Computer Forensic: Understanding Computer Forensics: Digital forensic Science, Need for Digital forensic, Cyber Forensic, and digital Evidence and rules of Evidence, Forensics Analysis, Digital Forensic Life Cycle	05	12
7	UNIT-VI: Intellectual property issues in cyberspace: Introduction to intellectual property, WIPO, computer software copyrights, copyright in databases and electronic publishing, the law of confidence, product designs, international law, Copyright, Trade Secrets, Trademarks, Patents, Design, protection of intellectual property, Protection options – Encryption, copyright on web-content, copyright on software. Ethical Decision Making: Types of ethical choices, making defensible decisions.	05	13
8	UNIT-VII: Current Trends: The latest development in the cyber laws, policies and rules	04	10



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- **Suggested Specification Table with Marks (Theory):**

Distribution of Theory Marks (in %)					
R Level	U Level	A Level	N Level	E Level	C Level
-	40	30	30	-	-

Where R: Remember; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create (as per Revised Bloom's Taxonomy)

- **References/Suggested Learning Resources:**

(a) Books:

1. Sunit Belapure and Nina Godbole, Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives, Wiley India Pvt. Ltd, 2011.
2. Mark F Grady, Francesco Parisi, "The Law and Economics of Cyber Security", Cambridge University Press, 2006
3. Understanding Cybercrime: Phenomena, and Legal Challenges Response, ITU 2012
4. Jonathan Rosenoer, "CyberLaw: The law of the Internet", Springer-Verlag, 1997.

(b) Open-source software and website:

1. Course-related online MOOCs on NPTEL/SWAYAM platform
2. <https://www.meity.gov.in/content/cyber-laws>
3. Recently Published papers/articles in reputed journals

- **Suggested Course Practical List: If any**

1. Case Study Analysis of a Cyber Crime Incident
2. Drafting a Digital Contract
3. Privacy Policy Creation for a Website
4. Simulation of a Cybercrime Investigation
5. Research Paper on Emerging Cyber Law Issues
6. Debate on Privacy vs. Security
7. Comparative Study of International Cyber Laws
8. Mock Trial on Cyber Intellectual Property Dispute
9. Analysis of a Regulatory Framework
10. Ethical Hacking and Legal Boundaries Workshop

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