



**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Syllabus for Integrated MSc, 7<sup>th</sup> Semester**  
**Branch: Computer Science**  
**Subject Name: Cybercrime Ethics and Laws**  
**Subject Code: 1370309**

**Teaching and Examination Scheme:**

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE(E)	PA (M)	PA (I)	ESE (V)	
3	0	2	4	70	30	20	30	150

**Content:**

Sr. No.	Content	Teaching Hours	Module Weightage
1.	<b>Introduction to Cyber Crime and law:</b> Cyber Crimes, Types of Cybercrime, Hacking, Attack vectors, Cyberspace and Criminal Behavior, Clarification of Terms, Traditional Problems Associated with Computer Crime, Introduction to Incident Response, Digital Forensics, Computer Language, Network Language, Realms of the Cyber world, Recognizing and Defining Computer Crime, Contemporary Crimes, Computers as Targets, Contaminants and Destruction of Data	8	20%
2.	<b>Information Technology Act:</b> Overview of IT Act, 2000, Amendments and Limitations of IT Act, Digital Signatures, Cryptographic Algorithm, Public Cryptography, Private Cryptography, Electronic Governance, Legal Recognition of Electronic Records, Legal Recognition of Digital Signature, Certifying Authorities	6	14%
3.	<b>Cyber Ethics:</b> The Importance of Cyber Law, Significance of cyber-Ethics, Need for Cyber regulations and Ethics. Ethics in Information society, Introduction to Artificial Intelligence Ethics: Ethical Issues in AI and core Principles.	6	14%
4.	<b>E-Commerce security:</b> E-Commerce threats, Digital payments, Components of digital payment and stake holders, Modes of digital payments viz. Banking Cards, Unified Payment Interface (UPI), eWallets, Digital payments related common frauds and preventive measures.	12	28%
5.	<b>Mobile phone security:</b> Password policy, Security patch management, Data backup, Management of third-party software, Device security policy, Cyber Security best practices, Significance and Management of host firewall and Ant-virus, Wi-Fi security, Configuration of basic security policy and permissions.	10	24%

**Reference Books:**

1. Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives By Nina Godbole, Sunit Belapur, Wiley
2. Understanding Cyber Crime: Phenomena and Legal Challenges Response, ITU 2012
3. Cyber Laws: Intellectual property & E Commerce, Security- Kumar K, dominant Publisher
4. Cyber Ethics 4.0, Christoph Stuckelberger, Pavan Duggal, by Globethic



**GUJARAT TECHNOLOGICAL UNIVERSITY**

**Syllabus for Integrated MSc, 7<sup>th</sup> Semester**

**Branch: Computer Science**

**Subject Name: Cybercrime Ethics and Laws**

**Subject Code: 1370309**

5. Information Security policy & Implementation Issues, NIIT, PHI
6. Computers, Internet and New Technology Laws, Karnika Seth, Lexis Nexis Butterworths Wadhwa Nagpur.

**Course Outcome:**

CO-1	To identify and describe the major types of cybercrime.
CO-2	Understand and interpret the laws with regards to the investigation and prosecution of cybercrimes.
CO-3	Interpret Cyber Ethics.
CO-4	To develop practical skill set in ensuring security against all threats.