



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Integrated MSc, 6th Semester
Branch: Information Technology
Subject Name: E-Business and Cyber Law
Subject Code: 1360503

Teaching and Examination Scheme

Teaching Scheme			Credits	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.	E Commerce: E Business, E Business Models, The Technologies and Infrastructural requirement of E-Commerce, Advantages and Disadvantages of E-Commerce, International issues of Electronic Commerce, Types of business transaction (B2B), (B2C), (B2G), Business Processes, Digital India Services, Digital India Services, Digi Locker and other tools.	8	20
2.	Introduction to E Payments: Digital payments requirements, Digital Token based E Payment systems, Classification of new payment system, E Wallet, Online Internet Banking, Unified payment Interface – BHIM and other tools, Online financial services in India.	8	20
3.	Cryptocurrency, Bitcoin and Blockchain : Introduction – Cryptocurrency, How Cryptocurrency Works, E wallet Services and Personal CryptoSecurity, Introduction- Bitcoin, Merchants acceptance of Bitcoin, How Bitcoin Works overview, Transaction, Blocks, Mining, Blockchain – Technology Stack: Protocol, Currency, Financial Services, Crowd Funding, Bitcoin Prediction Markets, Smart Property, Smart Contracts, Decentralized Governance Services, The Blockchain is an Information Technology.	8	20
4.	Cyber Security: Introduction, Network and website Security Risks, Hacking, Privacy Risk, Cyber Defamation, Identity Theft & Fraud, Digital Forgery, Cyber terrorism, Cyber Pornography, Digital Forgery, Digital Signature, E-business Risk management issues, Firewall, Security framework.	8	20
5.	Cyber Laws: Cyber Crimes against Individuals, institution and state, Computer and mobile as target for crime, Introduction To Cyber Laws, Limitation of India’s Cyber Laws, Types of Civil Wrongs under the IT Act, 2000, Punishments under the IT Act, Intellectual Property Rights.	8	20



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Integrated MSc, 6th Semester
Branch: Information Technology
Subject Name: E-Business and Cyber Law
Subject Code: 1360503

Suggested Specification table with Marks (Theory):70

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
10	20	20	10	5	5

R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Reference Books:

1. E-Commerce An Indian Perspective P. T. Joseph, S. J. – PHI publication
2. IT Encyclopedia.Com: Volume 8: Parag Diwan & Sunil Sharma: E-Commerce – Pentagon Press.
3. E-Commerce Strategies: Charles Trepper –PHI
4. S. R. Bhansali, Information Technology Act, 2000, University Book House Pvt. Ltd., Jaipur
5. Vasu Deva, Cyber Crimes and Law Enforcement, Commonwealth Publishers, New Delhi
6. Decentralized Applications, Harnessing Bitcon's Blockchain Technology, Siraj Raval, 2016 – O'Reilly
7. Blockchain, Blueprint for a new Economy, Melanie Swan, 2017 – O'Reilly
8. Mastering Bitcoin, Programming the open Blockchain, 2nd Edition, Andreas M. Antonopoulos, 2017 – O'Reilly
9. Essential Cyber Security Science, Josiah Dyksta, 2017 – O'Reilly

Course Outcome:

After learning the course, the students should be able to:

No.	CO statement
CO-1	Students will be able to learn about E-commerce
CO-2	Students will be able to learn about encryption technique and their applications
CO-3	Students will be able to understand about Cyber laws