

AC –
Item No. –

As Per NEP 2020

Tolani College of Commerce (Autonomous)



Title of the Course: Cyber-Security

Programmes:

**B.Com (Management Studies)
B.Com (Accounting & Finance)
B.Com (Banking & Insurance)
B.Com (Financial Markets)**

Syllabus for 4 Credits

From the Academic Year: 2025-2026

Name of the Course: Cyber Security

Sr. No.	Heading	Particulars
1	Description of the course :	It provides comprehensive overview of cyberspace, covering its technologies, crimes, social media, and digital payments. It aims to equip students with knowledge and skills to navigate the digital world responsibly.
2	Vertical :	Minor
3	Type :	Theory
4	Credit:	4 credits
5	Hours Allotted :	60 Hours
6	Marks Allotted:	100 Marks
7	Course Objectives: <ol style="list-style-type: none"> 1. To provide students with a comprehensive understanding of cybersecurity principles, best practices, and mitigation techniques. 2. To familiarize learners with the legal aspects of cyberspace, including relevant laws and regulations. 3. To introduce students to the concepts, methods, and risks associated with digital payments. 4. To explore the role, impact, and challenges of social media in today's digital age. 	
8	Course Outcomes: <ol style="list-style-type: none"> 1. Apply cybersecurity principles and best practices to protect individuals and organizations from cyber threats. 2. Understand the legal framework governing cyberspace and digital activities in India. 3. Evaluate the benefits and risks of digital payments and their impact on society. 4. Analyze the role of social media in modern communication, its potential for both positive and negative outcomes, and the ethical considerations involved. 	

9	Modules:-
	Module 1:
	Defining Cyberspace and Overview of Computer and Web-technology, Architecture of cyberspace, Communication and web technology, Internet, World wide web, Advent of internet, Internet infrastructure for data transfer and governance, Internet society, Regulation of cyberspace, Concept of cyber security, Issues and challenges of cyber security.
	Module 2:
	Classification of cyber-crimes, Common cyber-crimes- cyber-crime targeting computers and mobiles, cyber-crime against women and children, financial frauds, social engineering attacks, malware and ransomware attacks, zero day and zero click attacks, Cybercriminals modus-operandi , Reporting of cyber-crimes, Remedial and mitigation measures, Legal perspective of cyber-crime, IT Act 2000 and its amendments, Cyber-crime and offences, Organizations dealing with Cyber-crime and Cyber security in India.
	Module 3:
10	Introduction to Social networks. Types of Social media, Social media platforms, Social media monitoring, Hashtag, Viral content, Social media marketing, Social media privacy, Challenges, opportunities and pitfalls in online social network, Security issues related to social media, Flagging and reporting of inappropriate content, Laws regarding posting of inappropriate content, Best practices for the use of Social media.
	Module 4
	Definition of E- Commerce, Main components of E-Commerce, Elements of E-Commerce security, E-Commerce threats, E-Commerce security best practices, Introduction to digital payments, Components of digital payment and stake holders, Modes of digital payments- Banking Cards, Unified Payment Interface (UPI), e-Wallets, Unstructured Supplementary Service Data (USSD), Aadhar enabled payments, Digital payments related common frauds and preventive measures. RBI guidelines on digital payments and customer protection in unauthorized banking transactions. Relevant provisions of Payment Settlement Act, 2007.
	Text Books:
	Not Applicable

11	Reference Books: 1. Cyber Crime Impact in the New Millennium by R. C Mishra, Auther Press. Latest Edition: 2024 2. Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives by Sumit Belapure and Nina Godbole, Wiley India Pvt. Ltd. Latest Edition: 2024 3. Security in the Digital Age: Social Media Security Threats and Vulnerabilities by Henry A. Oliver, Create Space Independent Publishing Platform. Latest Edition: 2024 4. Electronic Commerce by Elias M. Awad, Prentice Hall of India Pvt Ltd. Latest Edition: 2024												
12	Internal Continuous Assessment: 40%	Semester End Examination : 60%											
13	Continuous Evaluation through: <table><tr><th>Sub-components</th><th>Maximum Marks</th><th>Conditions for passing</th></tr><tr><td>1) Class Test</td><td>20</td><td rowspan="3">A learner must be present for each of the sub- components</td></tr><tr><td>2) Assignment</td><td>20</td></tr><tr><td>Total</td><td>40</td></tr></table>			Sub-components	Maximum Marks	Conditions for passing	1) Class Test	20	A learner must be present for each of the sub- components	2) Assignment	20	Total	40
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1) Class Test	20	A learner must be present for each of the sub- components											
2) Assignment	20												
Total	40												
14	<p style="text-align: center;">Question Paper Pattern for Semester End Examination Maximum Marks: 60 Duration: 2 Hrs. Note: All questions are compulsory. Each question has an internal choice.</p> <p style="text-align: center;"><i>[Refer to Next Page]</i></p>												

Question Number		Nature of Questions	Maximum Marks
1)		Attempt any 3	
	a)		15
	b)		
	c)		
	d)		
	e)		
2)		Attempt any 3	
	a)		15
	b)		
	c)		
	d)		
	e)		
3)		Attempt any 3	
	a)		15
	b)		
	c)		
	d)		
	e)		
4)		Attempt any 3	
	a)		15
	b)		
	c)		
	d)		
	e)		

Signatures of Team Members

Sr.No	Name	Signature
1.	Mr. Deepak Sharma	
2.		
3.		
4.		
5.		

