

AC –  
Item No. –

**As Per NEP 2020**

**Tolani College of  
Commerce  
(Autonomous)**



Knowledge is Supreme

**Title of the Course: Cyber Security**

**Programme: B.Com (Accounting and Finance), B.Com(Banking and Insurance) ,B.Com(Financial Markets) Bachelor of Business Administration in Logistics , Bachelor of Management Studies**

**Syllabus for 2 credits Course**

**From the academic year- 2024-2025**

Sr. No.	Heading	Particulars
1	<b>Description of the course :</b>	Cyber Security is the field of study that focuses on methods required to prevent computer systems and networks from leaking information, vandalising hardware, software, or electronic data, and misdirecting the services they provide.
2	<b>Vertical :</b>	Open Electives
3	<b>Type :</b>	Theory
4	<b>Credit:</b>	2 credits
5	<b>Hours Allotted :</b>	30 Hours
6	<b>Marks Allotted:</b>	50 Marks Continuous Evaluation: 20 Marks Semester-End: 30 Marks
7	<b>Course Objectives:</b>	<ol style="list-style-type: none"> <li>1. To define cybersecurity and understand basic terminology also grasp the fundamentals of cyber threats.</li> <li>2. To understand the importance of data protection, including encryption, data loss prevention, and secure data handling practices.</li> </ol>
8	<b>Course Outcomes:</b>	<ol style="list-style-type: none"> <li>1. Learn basic security measures to protect devices.</li> <li>2. Develop an incident response plan to quick detect, respond to, and recover from cybersecurity incidents.</li> </ol>

<b>9</b>	<b>Module 1: Introduction to Cyber security, Risk Analysis</b>	
	<ul style="list-style-type: none"> <li>Defining Cyberspace and Overview of Computer and Web-technology, Architecture of cyberspace Communication and web technology,</li> <li>Internet infrastructure for data transfer and governance, Internet society, Regulation of cyberspace, Concept of cyber security, Issues and challenges of cyber security.</li> <li>Threat Definition, Types of Attacks, Risk Analysis</li> </ul>	
	<b>Module 2: Cyber crime and Cyber law and Encryption</b>	
	<ul style="list-style-type: none"> <li>Classification of cyber crime, Common cyber crimes- cyber crime targeting computers and mobiles Cyber crime against women and children, Financial frauds</li> <li>Social engineering attacks, Malware and ransomware attacks, Zero day and zero click attacks, Cybercriminals</li> <li>A Brief History of Encryption, Symmetric-Key Cryptography, Public Key Cryptography Public Key Infrastructure</li> </ul>	

<b>10</b>	<b>Reference Books:</b>											
<b>11</b>	<b>Internal Continuous Assessment: 20%</b>	<b>Semester End Examination : 30%</b>										
<b>12</b>	<b>Continuous Evaluation through:</b>											
<b>13</b>	<b>Scheme of Evaluation Pattern</b> <b>Table 1A: Scheme of Continuous Evaluation (CE/Practical)</b> <b>Scheme of Evaluation Pattern</b>											
	<table border="1"> <thead> <tr> <th style="text-align: center;">Sub-components</th> <th style="text-align: center;">Maximum Marks</th> <th style="text-align: center;">Conditions for passing</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1) <b>Project</b></td> <td style="text-align: center;">10</td> <td rowspan="3" style="text-align: center;">A learner must be present for each of the sub-components.</td> </tr> <tr> <td style="text-align: center;">2) <b>MCQ</b></td> <td style="text-align: center;">10</td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">20</td> </tr> </tbody> </table>		Sub-components	Maximum Marks	Conditions for passing	1) <b>Project</b>	10	A learner must be present for each of the sub-components.	2) <b>MCQ</b>	10	Total	20
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1) <b>Project</b>	10	A learner must be present for each of the sub-components.										
2) <b>MCQ</b>	10											
Total	20											

**Table 1B: Scheme of Semester End Examination (SEE) Evaluation  
Question Paper Pattern for Semester End Examination (SEE)**

**Maximum Marks: 30**

**Duration: I Hrs.**

Note: All questions are compulsory. Each question has an internal choice.

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

Sr.No	Name	Signature
1.	Ms. Bandita Singh	