



**Department of Information Technology**

**B.Sc. in Information Technology (Cyber Security)**

Semester I						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Mathematics for Computer Science	3	1	0	4
2		Programming for Problem Solving	3	0	4	5
3		Electrical & Electronics Engineering	3	1	0	4
4		Introduction to AI & Machine Learning	3	1	0	4
5.		Introduction to Information Security	3	1	0	4
6.		English Communication/Soft Skills	3	0	4	5
<b>Total Credit</b>						26

Semester II						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Discrete Mathematics	3	1	0	4
2		Data Privacy & Security	3	0	4	5
3		Introduction to Ethical Hacking	3	1	0	4
4		Data Structure with Python	3	0	4	5
5.		Environmental Science	1	0	0	1
<b>Sessional</b>						
1		Project 1	0	0	2	1
<b>Total Credit</b>						20

Semester III						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Computer Networks	3	0	4	5
2		Design and Analysis of Algorithm	3	0	4	5
3		Access control & OS Security	3	1	0	4
4		DBMS and SQL injection Attack	3	0	4	5
5		Steganography & Watermarking	3	1	0	4
<b>Total Credit</b>						23

Semester IV						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Network Security	3	0	4	5
2		Incident Analysis and Threat Hunting	3	0	4	5
3		Secure Software Design & Enterprise Computing	3	0	4	5
4.		<b>Elective-I</b>	3	0	0	3
		Cyber Security Vulnerabilities and Cyber				



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		Security Safeguards				
		Intrusion Detection and Prevention				
<b>Sessional</b>						
1		Technical Seminar and Communication Skill	0	0	2	1
2		Project II	0	0	2	1
<b>Total Credit</b>						<b>20</b>

<b>Semester V</b>						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Web Application Security	3	0	4	5
2		Digital Forensics	3	0	4	5
3		<b>Elective II</b>	3	0	0	3
		Cyber Law & Cyber Crime Investigation	3	0	0	
		Visual Cryptography				
4		<b>Elective-III</b>	3	0	0	3
		Threats in Mobile Application				
		Information and Coding Theory				
5		Industrial Training and Internship	0	0	2	1
<b>Sessional</b>						
1		Major Project	0	0	4	2
<b>Total Credit</b>						<b>19</b>

<b>Semester VI</b>						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Biometric Security	3	0	4	5
2		Blockchain and Crypto currency	3	0	4	5
3		<b>Elective IV</b>	3	0	0	3
		Security Assessment and Risk Analysis				
		Malware Detection				
		ML for Security				
		Image Processing and Security				
<b>Sessional</b>						
1		Grad Viva	0	0	2	1
2		Major Project	0	0	4	2
<b>Total Credit</b>						<b>16</b>

<b>Semester</b>	<b>Credit</b>
I	26



**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**  
NH-12 (Old NH-34), Simhat, Haringhata, Nadia -741249

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II	20
III	23
IV	20
V	19
VI	16
<b>TOTAL</b>	<b>124</b>