

Maulana Abul Kalam Azad University of Technology, WB
(Formerly known as West Bengal University of Technology)
Syllabus of B.Sc. in IT (Cyber Security)
Effective from academic session 2023-24

Model curriculum structure for 4 year Non-AICTE UG programs for B.Sc. in
IT(Cyber Security)

Sem	Major (Offline)	Minor (Blended Mode)	Inter Disciplinary (Offline)	Ability Enhancement (Offline)	Skill Enhancement (Online /Sessional)	Common Value added Course (SESSIONAL)	Total credits
I	Sub 1: Fundamental of Safe Programming practices Fundamental of Safe Programming practices using C lab [3+2 credits]	Sub 1: Principles of Management [3credits]	Any one from GE baskets Basket A or D (3 credits)	English & Professional Communication [2 credits]	Life Skills & Personality Development [2 credits]	Yoga/ Health & Wellness/ Sports [2 credits]	22
	Sub 2: Introduction to Digital Electronics Digital Electronics Lab [3+2 credits]						
II	Sub 1: Introduction to Information Security Introduction to Information Security Lab [3+2 credits]	Sub 1: Organization Behavior [3credits]	Any one from GE baskets Basket B or E [3 credits]	Modern Indian Languages and Literature [2 credits]	IT Skills [2 credits]	Critical Thinking/ NSS/ Mental Health [2 credits]	22
	Sub 2: Study of Computer Architecture and organization [5 credits]						

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III	Sub 1: Study of Data structure and Algorithms Data structure lab Using C/Python [3+2 credits]	Sub 1: Principles of Marketing [4 credits]	Any one from GE baskets Basket C or F [3 credits]	The Constitution, Human Rights & Law [2 credits]	Understanding basics of Cyber Security [2 credits]		21	
	Sub 2: DBMS and SQL injection Attack DBMS and SQL injection Attack Lab [3+2 credits]							
IV	Sub 1: Ethical Hacking [4 credits]	Sub 1: Human resource Management [4 credits]		Society Culture & Human Behaviour [2 credits]			23	
	Sub 2: Operating System with UNIX Operating System with UNIX lab [3+1 credits]							Sub 2: Sales and distribution management /E-Commerce [4 credits]
	Sub 3: OOPs with JAVA OOPs with JAVA lab [3+2 Credits]							
V	Sub 1: Computer Networking Computer Networking Lab [3+2 Credits]	Sub 1: Financial management [4 credits]			Internship to be started after exam of 4 th sem (sem break) and completed within 5 th sem(weekend) [4 credits]		22	
	Sub 2: Cyber Law and Cyber Crime Investigation [5 Credits]							Sub 2: Entrepreneurship [4 credits]

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VI	Sub 1: Cyber Security Vulnerabilities & Safeguards [4 credits]	Sub 1: Customer relationship management [4 credits] Sub 2: Career planning and management [4 credits]					22
	Sub 2: Digital Forensics Digital Forensics Lab [3+2 credits]						
	Sub 3: Web Technology Web Technology Lab [3+2 Credits]						
VII	Sub 1: Cryptography and Network Security [5 Credits]	Sub 1: Consumer behavior [4 credits] Sub 2: Strategic management [4 credits]					22
	Sub 2: Research Methodology [4 credits]						
	Sub 3: Steganography & Watermarking Steganography & Watermarking Lab (3+2 Credits)						
VIII	Sub 1: Security Assessment and Risk Analysis [5 Credits]				Research Project [12credits]	22	
	Sub 2: Blockchain and Crypto currency [5 Credits]						

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19 sub – 91 credits	11 sub – 42 credits	3 sub – 09 credits	4 sub – 08 credits	3 sub & Int & Proj – 22 credits	2 sub – 4 credits	176
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Note:

1. Normally all 5 credit courses will be either theory (3) + practical (2) {100+100 marks] or theory (4) + tutorial (1) [100 marks]
2. Normally all 4 credit courses will be either theory (3) + tutorial (1) or theory (4) [100 marks]
3. Normally all 3 credit courses will be theory (3) – Inter disciplinary (5 to 6 baskets) [100 marks]
4. Normally all 2 credit courses AEC/SEC/CVA would be theory or online course
5. 7/8th semester Major subjects could include Projects in core, if required
6. 100/200/300/400 level should be maintained as per UGC document

****Note: The green highlighted cells are modified as per the instruction given by competent authority remaining all are same as B.Sc. IT Draft syllabus. We have already sent our feedback regarding the modification needed for the selection of minor subjects and others.**