(Applicable from the academic session 2022-2023)

Curriculum Structure

			Semester III	I (Second year)				
SI No		Type of Course	Code	Course Title	Hours per		er	Credits
110					L	T	P	
1		Engineering Science Course	ESC301	Analog and Digital Electronics	3	0	0	3
2		Professional Core Course	PCC-CS301	Data Structure and Algorithms	3	o	0	3
3)RY	Professional Core Course	PCC-CS302	Computer Organization	3	o	0	3
4	THEORY	Basic Science Course	BSC-CS301	Discrete Mathematics	2	o	0	2
5		Humanities Social Science including Management Course	HSMC301	Economics for Engineers (Humanities II)	3	0	О	3
6	د ا	Professional Core Course	PCC-CS391	Data Structure and Algorithms	0	0	4	2
7		Engineering Science Course	ESC391	Analog and Digital Electronics	0	О	4	2
8	PRAC	Professional Core Course	PCC-CS392	Computer Organization	0	0	4	2
9		Professional Core Course	PCC-CS393	IT Workshop (Python/Matlab/R)	0	o	4	2
			TOTAL CREI	DITS				22

			Semester IV	(Second year)				
Sl No		Type of Course	Code	Course Title		Hours per week		Credits
					L	T	P	
1	RY	Professional Core Course	PCC-CSY401	Probability and Statistics	3	0	0	3
2	THEORY	Professional Core Course	PCC-ICB401	Data Communication and Networks	3	0	0	3
3		Professional Core Course	PCC-CS403	Formal Languageand Automata Theory	3	0	0	3
4		Professional Core Course	PCC-CS404	Design and Analysis of Algorithm	3	0	0	3
5		Basic Science Course	BSC401	Biology	2	1	0	3
6		Mandatory Course	MC401	Environmental Science	2	0	0	2
7	TICAL	Professional Core Course	PCC-ICB491	Data Communication and Networks Lab	0	0	4	2
8	PRACTIC/	Professional Core Course	PCC-CS494	Design and Analysis of Algorithm Lab	0	0	4	2
TOTAL CREDITS							21	

			Semester	r V (Third year)				
Sl No		Type of Course	Code *	Course Title	Hours per week		Credits	
					L	Т	P	
1		Professional Core Course	PCCCS501	Cyber Security	3	0	0	3
2		Professional Core Course	PCCCS502	Cyber Law & Cyber Crime	3	0	0	3
3		Professional Core Course	PCCCS503	Operating System	3	0	0	3
4		Professional Core Course	PCCICB502	Object Oriented Programming	3	0	0	3
5	THEORY	Humanities and Social Sciences including	HSMC501	Industrial Management	2	0	0	2
		Management	DEGLED 501	N. 1.1. G				
6		Professional Elective	PECICB501 (A/B/C)	Mobile Computing/ Internet Technology/Smart Sensors and IoT	3	0	0	3
7		Mandatory Course	MC-501	Constitution of India / Essence of Indian Knowledge Tradition	2	0	0	0
8	AL	Professional Core Course	PCCCS591	System Security Lab	0	0	4	2
9	PRACTICAL	Professional Core Course	PCCCS592	Operating System Lab	0	0	4	2
10	PR	Professional Core Course	PCCICB593	Object Oriented Programming Lab	0	0	4	2
	1	•	TOTAL CF	REDITS		'		23

			Semester V	I (Third year)				
Sl No		Type of Course	Code* Course Title		Hours per week			Credits
					L	T	P	
1		Professional Core Course	PCCCS601	Cryptography and Network Security	2	1	0	3
2		Professional Core Course	PCCCS602	Infrastructure Security	3	0	0	3
3		Professional Core Course	PCCCS603	Database Management System	3	0	0	3
4	Theory	Professional Elective	PECICB601 (A/B/C /D/E)	Cloud Computing/ Software Engineering/ Ethical Hacking	3	0	0	3
5		Open Elective	OECICB601 (A/B/C)	Human Resource Development and Organizational Behaviour/ Design Thinking/ Economic Policies India	3	0	0	3
6		Project	PROJ-CS601	Research Methodology	2	0	0	2
7	ПСА	Professional CoreCourse	PCCCS691	Network Security Lab	0	0	4	2
8	PRACTICA L	Professional Elective Course	PCCCS692	Database Management System lab	0	0	4	2
			TOTAL CRE	DITS				21

			Semester V	II (Fourth year)				
SINo		Type of Course	Code*	Course Title	Hours per week		veek	Credits
					L	Т	P	
1		Professional Elective Course	PECICB701 (A/B/C)	Digital Forensics/ Information Theory and Coding/ Blockchain Technology	3	0	0	3
	HH	Professional Elective Course	PECICB702 (A/B/C)	AI&ML/ Malware Analysis/ Mobile Application and Services	3	0	0	3
2								
3		Open ElectiveCourse	OECICB701 (A/B/C)	Soft skill and Interpersonal Communication/Bio Informatics/ Business Analytics	3	0	0	3
4		Humanities and Social Sciences including Management	HSMC701	Project Management andEntrepreneurship	2	0	0	2
5		Sessional	PROJICB7 81	Project I	0	0	12	6
	'		TOTAL CRE	DITS		•		17

Maulana Abul Kalam Azad University of Technology, West Bengal (Formerly known as West Bengal University of Technology) Syllabus for B. Tech in Computer Science and Engineering Cyber Security (Applicable from the academic session 2022-2023)

			Semester VIII	(Fourth year)				
SINo		Type of Course	Code*	Course Title	Hours per week		veek	Credits
					L	Т	P	
1		Professional Elective Course	PECICB801 (A/B)	Information Security Management System (ISMS)/ Distributed System	3	0	0	3
2	THH	Open Elective Course	OECICB801(A/ B /C)	Security Operations Management/ E-commerce and Digital Payment System/Operations Research	3	0	0	3
3		Open Elective Course	OECICB802 (A /B/C)	Management Information System(MIS)/ Multimedia Technology/ Introduction to Arts and Aesthetics	3	0	0	3
4		Sessional-1	PROJICB881	Project II	0	0	12	6
TOTAL CREDITS								15