

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

Curriculum Structure

Semester III (Second year)								
Sl No		Type of Course	Code	Course Title	Hours per week			Credits
					L	T	P	
1	THEORY	Engineering Science Course	ESC301	Analog and Digital Electronics	3	0	0	3
2		Professional Core Course	PCCCS301	Data Structure and Algorithms	3	0	0	3
3		Professional Core Course	PCCCS302	Computer Organization	3	0	0	3
4		Basic Science Course	BSCICB301	Linear Algebra	2	0	0	2
5		Humanities Social Science including Management Course	HSMC301	Economics for Engineers (Humanities II)	3	0	0	3
6	PRACTICAL	Professional Core Course	PCCCS391	Data Structure and Algorithms	0	0	4	2
7		Engineering Science Course	ESC391	Analog and Digital Electronics	0	0	4	2
8		Professional Core Course	PCCCS392	Computer Organization	0	0	4	2
9		Professional Core Course	PCCCS393	IT Workshop (Python/Matlab/R)	0	0	4	2
TOTAL CREDITS								22

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Semester IV (Second year)								
Sl No		Type of Course	Code	Course Title	Hours per week			Credits
					L	T	P	
1	THEORY	Professional Core Course	PCCCS401	Discrete Mathematics	3	0	0	3
2		Professional Core Course	PCCICB401	Data Communication and Networks	3	0	0	3
3		Professional Core Course	PCCCS403	Formal Language and Automata Theory	3	0	0	3
4		Professional Core Course	PCCCS404	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	PRACTICAL	Professional Core Course	PCCICB491	Data Communication and Networks Lab	0	0	4	2
8		Professional Core Course	PCCCS494	Design and Analysis of Algorithm Lab	0	0	4	2
TOTAL CREDITS								21

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Semester V (Third year)								
SlNo		Type of Course	Code	Course Title	Hours per week			Credits
					L	T	P	
1	THEORY	Professional Core Course	PCCICB501	IoT Application and Design	3	0	0	3
2		Professional Core Course	PCCCS502	Operating System	3	0	0	3
3		Professional Core Course	PCCCS503	Object Oriented Programming	3	0	0	3
4		Professional Core Course	PCCICB502	Wireless Sensor Networks	3	0	0	3
5		Humanities and Social Sciences including Management	HSMC501	Introduction to Industrial Management	2	0	0	2
6		Professional	PECICB	Embedded	3	0	0	3
		Elective	50 1 (A/B/C)	System/ Internet Technology/ Smart Sensors and IoT				
7	PRACTICAL	Professional Core Course	PCCICB591	IoT Application and Design Lab	0	0	4	2
8		Professional Core Course	PCCCS592	Operating System Lab	0	0	4	2
9		Professional Core Course	PCCICB593	Object Oriented Programming Lab	0	0	4	2
TOTAL CREDITS								23

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Semester VI (Third year)								
SlNo		Type of Course	Code	Course Title	Hours per week			Credits
					L	T	P	
1	THEORY	Professional Core Course	PCCICB601	Cryptography and Network Security	2	0	0	2
2		Professional Core Course	PCCCS601	Database Management System	3	0	0	3
3		Professional Core Course	PCCCS602	Ethical Hacking	3	0	0	3
4		Professional Elective	PECICB601 (A/B/C/D/E)	Cloud Computing/ Cyber law and Cyber crime/ Steganography and Watermarking/ Software Engineering/ Digital Forensics	3	0	0	3
5		Open Elective	OECICB601 (A/B/C)	Human Resource Development and Organizational Behaviour/ Indian Music System/	3	0	0	3

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				Economic Policies in India				
6	PRACTICAL	Professional Core Course	PCCCS691	Database Management System lab	0	0	4	2
7		Professional Elective Course	PECICB691	Lab based on PECICB601	0	0	4	2
8		Project-1	PROJ-681	Project-1	0	0	6	3
TOTAL CREDITS								21