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

Model curriculum structure for 4 year Non-AICTE UG programs for B. Sc. In Computer Science

Sem	Major (Offline)	Minor (Blended Mode)	Inter Disciplinary (Offline)	Ability Enhancement (Offline)	Skill Enhancement (Online /Sessional)	Common Value added Course (SESSIONAL)	Total credits
I	Programming Fundamental – using C Language 5 credits(3L+2P) Digital Electronics 5 credits(3L+2P)	Principles Of Management 3 credits	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
II	Data Structures 5 credits(3L+2P) Computer Organization 5 credits(3L+2P)	Organization Behaviour 3 credits	Any one from GE baskets Basket B or E (3 credits)	Modern Indian Languages and Literature (2 credits)	IT Tools for Business (2 credits)	Critical Thinking / NSS/ Mental Health/ Environmental Studies (2 credits)	22
III	Design and Analysis of Algorithm 5 credits(3L+2P) Database Management Systems	Principles of Marketing 4 credits(3L+1T)	Any one from GE baskets Basket C or F (3 credits)	The Constitution, Human Rights and Law (2 credits)	Understanding basics of Cyber Security (2 credits)		21

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	5 credits(3L+2P)						
IV	Object Oriented Programming using JAVA 5 credits(3L+2P)	1. Human resource Management 4 credits(3L+1T)		Society Culture and Human Behaviour (2 credits)			23
	Data Communication and Computer Networks 4credits(3L+1T) Software Engineering 4 credits(3L+1T)	2. E-Commerce 4 credits(3L+1T)					
V	Operating Systems 5 credits(3L+2P) Computer Graphics 5 credits(3L+2P)	1.Entrepreneurship 4 credits(3L+1T) 2. Financial management 4 credits(3L+1T)			Internship to be started after exam of 4th sem (sem break) and completed within 5th sem (weekends) (4 credits)		22
VI	Artificial Intelligence 5 credits(3L+2P)	1. Customer relationship management 4 credits(3L+1T)					22

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	Python Programming 5 credits(3L+2P)	2. Career planning and management 4 credits(3L+1T)					
	E-Commerce 4 credits(3L+1T)						
VII	Cloud Computing 5 credits(3L+2P)	1. Consumer behaviour 4 credits(3L+1T)					22
	Web Technology 5 credits(3L+2P)						
	Cryptography and Information Security 4 credits(3L+1T)	2. Strategic management 4 credits(3L+1T)					
VIII	Advanced Java Programming 5 credits(3L+2P)				Research project 12 credits		22
	Machine Learning 5 credits(3L+2P)						
	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**