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

Model curriculum structure for 4 year UG programs for B.Sc. in Medical Instrumentation & Critical Care Technology

SEM	MAJOR (Offline)	Credit	Minor (Blended Mode)	Inter Disciplinary (Offline)	Ability Enhancement (Offline)	Skill Enhancement (Online /Sessional)	Common Value added Course (SESSIONAL)	TOTAL CREDITS
I	BASICS OF HUMAN ANATOMY	5	(1 sub x 3 credits)	Any one from GE	ENGLISH & PROFESSIONAL	LIFE SKILLS & PERSONALITY	YOGA/ HEALTH & WELLNESS/	22
	BASICS OF HUMAN PHYSIOLOGY	5	Principles Of Management	baskets Basket A or D (3 CREDITS)	COMMUNICATION (2 CREDITS)	DEVELOPMENT (2 CREDITS)	SPORTS (2 CREDITS)	
II	BASIC CRITICAL CARE MANAGEMENT [BASICS OF NURSING, ANAESTHESIA, SURGERY]	5	(1 sub x 3 credits) Organization Behaviour/Business Ethics & Corporate Governance	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 (2 CREDITS)	22
	FUNDAMENTALS OF BIOCHEMISTRY	5						
III	BASICS OF PATHOLOGY, MICROBIOLOGY, PHARMACOLOGY	5	(1 sub x 4 credits) Principles of Marketing/Business &	Any one from GE baskets Basket C or	THE CONSTITUTION, HUMAN RIGHTS & LAW (2 CREDITS)	Understanding basics of Cyber Security (2 CREDITS)		21

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	FUNDAMENTALS OF BIO-PHYSICS	5	Sustainability	F (3 CREDITS)			
IV	ICU THERAPY	4	Human resource management		SOCIETY, CULTURE & HUMAN		23
	CSSD PROCEDURE	4	/Corporate Social Responsibility (CSR) (4 credits)		BEHAVIOUR (2 CREDITS)		
	LABORATORY SCIENCE [HAEMATOLOGY & PARASITOLOGY]	5	Sales and distribution management /E-Commerce (4 credits)				
V	EQUIPMENT MAINTENANCE & TROUBLE SHOOTING	5	Financial management (4 credits)			INTERNSHIP (4 CREDITS)	22
	LAW & MEDICAL ETHICS	5	Entrepreneurship (4 credits)				
VI			Customer relationship				22
V 1	RESEARCH METHODOLOGY - I	4	management (4 credits)				22

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	CELLULAR BIOPHYSICS BIOCHEMICAL TECHNIQUE	5	Career planning and management/Managin g Workplace Diversity (4 credits)					
VII	OPTHALMOLOGY & ENT	5	Consumer behaviour (4 credits)/ Exploring Business Opportunity					22
	COMMUNITY HEALTH & EVS	5	Strategic management/ Intellectual Property					
	RESEARCH METHODOLOGY - II	4	Rights (4 credits)					
VIII	GYNAECOLOGY & OBSTETRICS	5				RESEARCH PROJECT		22
	CLINICAL MANIFESTATION OF PEDIATRICS	5				(12 CREDITS)		
	91 CREDITS	91	42 CREDITS	9 CREDITS	8 CREDITS	22 CREDITS	4 CREDITS	176