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

Model curriculum structure for 4 year Non-AICTE UG programs for B.Sc. in Medical Lab Technology

Sem	Major (Offline)	Minor (Blended Mode)	Inter Disciplinary (Offline)	Ability Enhancement (Offline)	Skill Enhancement (Online /Sessional)	Common Value added Course (SESSIONAL)	Total credits
I	FUNDAMENTALS OF ANATOMY AND PHYSIOLOGY (5 credits) 3L+2P	Computer Fundamental (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 credits
	GENERAL MICROBIOLOGY & PARASITOLOGY,VIROLOGY AND MYCOLOGY (5 credits) 3L+2P						
II	FUNDAMENTALS OF PATHOLOGY (5 credits) 3L+2P	Management Information System (3 Credit)	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 credits
	GENERAL BIOCHEMISTRY (5 credits) 3L+2P						

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III	CLINICAL HAEMATOLOGY (5 credits) 3L+2P CLINICAL MICROBIOLOGY (5 credits) 3L+2P	Word and PowerPoint & Spreadsheet Application with Excel (4 credits)	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 credits
IV	IMMUNOLOGY AND SEROLOGY (5 cresits) 3L+2P HISTOTECHNIQUES (4 credits) CLINICAL BIOCHEMISTRY (4 credits)	Database Management with SQL (4 credits) Graphic Design with PhotoShop & Illustrator (4 credits) 2L+2P		Society Culture and Human Behavior (2 credits)			23 credits
v	IMMUNOHAEMATOLOGY AND BLOOD BANKING (5 credits) 3L+2P	Cloud Computing (4 credits) 2L+2P			Internship to be started after exam of 4th sem (sem break) and completed within		22 credits

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	CLINICAL PATHOLOGY (5 credits) 3L+2P	E-commerce and Application (4 credits)			5th sem (weekends) (4 credits)		
VI	CLINICAL ENDOCRINOLOGY AND TOXICOLOGY (5 credits) 3L+2P	Web Development with HTML and CSS (4 credits) 2L+2P					22 credits
	DIAGONOSTIC MOLECULAR BIOLOGY (5 credits) 3L+2P	Internet and Networking (4 credits)					
	CLINICAL NUTRITION (4 credits)						
VII	CLINICAL ENZYMOLOGY AND AUTOMATION (5 credits) 3L+2P	Software Project Management (4 credits)					22 credits
	DIAGONOSTIC HISTOPATHOLOGY (5 credits) 3L+2P	Digital Marketing (4 credits)					

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	RESEARCH METHODOLOGY (4 credits)						
VIII	CYTOPATHOLOGY TECHNIQUES AND CYTOGENETICES (5 credits) 3L+2P				Research Project or Dissertation (12 credits)		22 credits
	ADVANCED DIAGONOSTIC TECHNIQUES (5 credits) 3L+2P						
	19 subjects - 91 credits	**11 subjects – 42 credits**	**3 subjects – 09 credits**	**4 subjects – 08 credits**	**3 subjects & Internship & Projects - 22 credits**	**2 subjects – 4 credits**	**176 credits**