



**Brainware University**  
**School of Medical and Allied Health Sciences**  
**Department of Allied Health Sciences**  
**Bachelor of Science in Medical Laboratory Technology (B.Sc MLT)**  
**(As per CBCS Template)**  
**Semester I**

Course Code	Course Name	L - T - P	Credits	Total Marks
HU101	English Communication	3-0-0	3	100
HU191	English Communication lab	0-0-2	1	100
BMLT101	National Healthcare Delivery System and Medical Laboratory Science (MLS)	4-0-0	4	100
BMLT191	National Healthcare Delivery System and Medical Laboratory Science (MLS) - Practical	0-0-4	2	100
BMLT102	Medical Ethics and Patient Safety Management	4-0-0	4	100
BMLT192	Medical Ethics and Patient Safety Management – Practical	0-0-4	2	100
*BMLT181	Clinical Observation	0-0-0	0	0
GE**	Generic Elective-1 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	4-0-0/5-0-0	4/5	200/ 100
GE**	Generic Elective -1 (Practical/Tutorial)	0-0-4/0-1-0	2/1	
TOTAL			<b>22</b>	800/700



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**Semester II**

Course Code	Course Name	L - T - P	Credits	Total Marks
EVS201	Environmental Science	3-1-0	4	100
BMLT201	Human Anatomy and Physiology	4-0-0	4	100
BMLT291	Human Anatomy and Physiology- Practical	0-0-4	2	100
BMLT202	General Biochemistry	4-0-0	4	100
BMLT292	General Biochemistry-Practical	0-0-4	2	100
BMLT203	General Pathology And Microbiology	4-0-0	4	100
BMLT293	General Pathology And Microbiology-Practical	0-0-4	2	100
BMLT204	Basic Hematology	4-0-0	4	100
BMLT281	Clinical Observation	0-0-0	0	0
GE**	Generic Elective-2 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	4-0-0/5-0-0	4/5	200/100
GE**	Generic Elective -2 (Practical/Tutorial)	0-0-4/0-1-0	2/1	
Total			32	800/700



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**Semester-III**

Course Code	Course Name	L - T - P	Credits	Total Marks
BMLT301	General Bacteriology	4-0-0	4	100
BMLT391	General Bacteriology-Practical	0-0-4	2	100
BMLT302	Clinical Biochemistry	4-0-0	4	100
BMLT392	Clinical Biochemistry-Practical	0-0-4	2	100
BMLT303	Fundamentals of Histology	4-0-0	4	100
BMLT304	Fundamentals of Histopathology	4-0-0	4	100
BMLT381	Clinical Observation	0-0-0	0	0
GE**	Generic Elective-3 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	4-0-0/5-0-0	4/5	200/100
GE**	Generic Elective -3 (Practical/Tutorial)	0-0-4/0-1-0	2/1	
Total			26	800/700



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**Semester IV**

Course Code	Course Name	L - T - P	Credits	Total Marks
BMLT401	Immunology & Bacterial Serology	4-0-0	4	100
BMLT491	Immunology & Bacterial Serology-Practical	0-0-4	2	100
BMLT402	Applied Histology	4-0-0	4	100
BMLT492	Applied Histology-Practical	0-0-4	2	100
BMLT403	Applied Clinical Biochemistry	4-0-0	4	100
BMLT493	Applied Clinical Biochemistry-Practical	0-0-4	2	100
BMLT404	Basic Nutrition & Public Health	4-0-0	4	100
BMLT494	Basic Nutrition & Public Health- Practical	0-0-4	2	100
BMLT481	Clinical Observation	0-0-0	0	0
GE**	Generic Elective-4 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	4-0-0/5-0-0	4/5	200/100
GE**	Generic Elective -4 (Practical/Tutorial)	0-0-4/0-1-0	2/1	
Total			30	1000/900



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**Semester- V**

Course Code	Course Name	L - T - P	Credits	Total Marks
BMLT501	Medical Parasitology & Entomology	4-0-0	4	100
BMLT591	Medical Parasitology & Entomology-Practical	0-0-4	2	100
BMLT502	Cytopathology	4-0-0	4	100
BMLT592	Cytopathology -Practical	0-0-4	2	100
BMLT503	Medical Mycology and Virology	4-0-0	4	100
BMLT593	Medical Mycology and Virology-Practical	0-0-4	2	100
BMLT504	Immunopathology	4-0-0	4	100
BMLT594	Immunopathology -Practical	0-0-4	2	100
BMLT581	Clinical Observation	0-0-0	0	0
Total			24	800

Course Code	Course Name	L - T - P	Credits	Total Marks
BMLT601	Blood Banking & Blood Transfusion	4-0-0	4	100
BMLT691	Blood Banking & Blood Transfusion -Practical	0-0-4	2	100
BMLT602	Genetics & Molecular Biology	4-0-0	4	100
BMLT692	Genetics & Molecular Biology -Practical	0-0-4	2	100
BMLT603	Special Techniques in Laboratory Science	4-0-0	4	100
BMLT693	Special Techniques in Laboratory Science-Practical	0-0-4	2	100
BMLT604	Research Methodology and Biostatistics	3-1-0	4	100



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BMLT681	Clinical Observation	0-0-0	0	0
<b>Total</b>			22	700

**Semester-VI**

**Semester-VII**

**Course Objective**

Students shall be deputed to various labs of Pathology department wherein they shall undergo practical training of handling patients, collection and processing of blood, urine, sputum stool and body fluids samples. Identification of patient's particulars based on CR number, Lab Number and transfer of samples from collection centers to different labs. Process of performing various tests in different labs. Each student is required to maintain a logbook of the various posting. Student's performance shall be evaluated on continuous basis by the faculty after the completion of the internship.

Course Code	Course Name	Credits	Total Marks
BMLT781	Internship (6 months)	14	200

**Total Credit = 170**

**Assessment:**

Clinical Log book	50
Professional Clinical Exam	100
VIVA	50