



BRAINWARE UNIVERSITY
SCHOOL OF MEDICAL & ALLIED HEALTH SCIENCES
DEPARTMENT OF ALLIED HEALTH SCIENCES
Bachelor of Medical Laboratory Science (BMLS) - 2026
(As per NCAHP Guidelines 2025)

Semester-I

Sl. No	Course Code	Course	L	T	P/C	Evaluation Scheme		Total	Credits	Course type
						CIA	TEE			
1	BML101	Human Anatomy	3	1	0	30	70	100	4	Foundation course
2	BML102	Human Physiology	3	1	0	30	70	100	4	Foundation course
3	BML103	Fundamentals of the Healthcare System and Medical Laboratory Science	2	0	0	15	35	50	2	Foundation courses
4	BML104	Communication skills and Professionalism	2	0	0	15	35	50	2	Skill enhancement
5	BML105	Basic Emergency care and First aid	1	1	0	30	70	100	2	Skill enhancement
6	BML176	Basics of Computer Application	1	0	2	30	70	100	2	Skill enhancement
7	BML197	Human Anatomy practical	0	0	4	30	70	100	2	Foundation course
8	BML198	Human Physiology practical	0	0	4	30	70	100	2	Foundation course
Total			12	3	9	210	490	700	20	

Semester-II

Sl. No	Course Code	Course	L	T	P/C	Evaluation Scheme		Total	Credits	Course type
						CIA	TEE			
1	BML201	Fundamentals of Microbiology	4	0	0	30	70	100	4	Foundation course
2	BML202	Basics of Biochemistry	4	0	0	30	70	100	4	Foundation course
3	BML203	Fundamentals of Haematology	4	0	0	30	70	100	4	Foundation course
4	BML204	Preventive and Social Medicine	2	0	0	30	70	100	2	Skill enhancement
5	BML295	Fundamentals of Microbiology Practical	0	0	4	30	70	100	2	Foundation course
6	BML296	Basics of Biochemistry Practical	0	0	4	30	70	100	2	Foundation course
7	BML297	Fundamentals of Haematology Practical	0	0	4	30	70	100	2	Foundation course
Total			14	0	12	210	490	700	20	



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Semester-III

Sl. No	Course Code	Course	L	T	P/C	Evaluation Scheme		Total	Credits	Course type
						CIA	TEE			
1	BML301	Bacteriology	4	0	0	30	70	100	4	Core Course
2	BML302	Intermediary Metabolism and Endocrinology	4	0	0	30	70	100	4	Core Course
3	BML303	Clinical Haematology	4	0	0	30	70	100	4	Core Course
4	BML304	Basics of Pharmacology	2	0	0	30	70	100	2	Core Course
5	BML395	Bacteriology Practical	0	0	4	30	70	100	2	Core Course
6	BML396	Intermediary Metabolism and Endocrinology Practical	0	0	4	30	70	100	2	Core Course
7	BML397	Clinical Haematology-Practical	0	0	4	30	70	100	2	Core Course
Total			14	0	12	210	490	700	20	

Semester-IV

Sl. No	Course Code	Course	L	T	P/C	Evaluation Scheme		Total	Credits	Course type
						CIA	TEE			
1	BML401	Virology and Immunology	4	0	0	30	70	100	4	Core Course
2	BML402	Genetics and Molecular Biology	4	0	0	30	70	100	4	Core Course
3	BML403	Clinical Pathology	4	0	0	30	70	100	4	Core Course
4	BML404	Medical Laboratory Management and Quality Control	2	0	0	30	70	100	2	Core Course
5	BML495	Virology and Immunology Practical	0	0	4	30	70	100	2	Core Course
6	BML496	Genetics and Molecular Biology Practical	0	0	4	30	70	100	2	Core Course
7	BML497	Clinical Pathology Practical	0	0	4	30	70	100	2	Core Course
Total			14	0	12	210	490	700	20	



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Semester-V

Sl. No	Course Code	Course	L	T	P/C	Evaluation Scheme		Total	Credits	Course type
						CIA	TEE			
1	BML501	Mycology & Parasitology	4	0	0	30	70	100	4	Core Course
2	BML502	Analytical Biochemistry	4	0	0	30	70	100	4	Core Course
3	BML503	Immunohematology and Transfusion Medicine	4	0	0	30	70	100	4	Core Course
4	BML504	Medical Law and Ethics	2	0	0	30	70	100	2	Core Course
5	BML595	Mycology & Parasitology Practical	0	0	4	30	70	100	2	Core Course
6	BML596	Analytical Biochemistry Practical	0	0	4	30	70	100	2	Core Course
7	BML597	Immunohematology and Transfusion Medicine Practical	0	0	4	30	70	100	2	Core Course
Total			14	0	12	210	490	700	20	

Semester-VI

Sl. No	Course Code	Course	L	T	P/C	Evaluation Scheme		Total	Credits	Course type
						CIA	TEE			
1	BML601	Applied Pathobiology	4	0	0	30	70	100	4	Core Course
2	BML602	Cytology and Histopathology	4	0	0	30	70	100	4	Core Course
3	BML603	Clinical Biochemistry	4	0	0	30	70	100	4	Core Course
4	BML604	Biostatistics and Research Methodology	2	0	0	30	70	100	2	Research Based
5	BML695	Applied Pathobiology Practical	0	0	4	30	70	100	2	Core Course
6	BML696	Cytology and Histopathology Practical	0	0	4	30	70	100	2	Core Course
7	BML697	Clinical Biochemistry Practical	0	0	4	30	70	100	2	Core Course
TOTAL			14	0	12	210	490	700	20	



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Semester-VII

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course type
						CIA	TEE			
1	BML781	Internship I	0	0	0	90	210	300	20	Internship

Semester-VIII

Sl. No	Course Code	Course	L	T	P	Evaluation Scheme		Total	Credits	Course type
						CIA	TEE			
1	BML881	Internship II	0	0	0	90	210	300	20	Internship