

STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME

SCHOOL NAME - RSMAS

DEPARTMENT NAME - MLT

PROGRAMME NAME - BMLT (2025-26)

1st SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major (Core)	MLT242M101/MLT242M111	Basic Anatomy (Theory +Lab)	100	4	3-0-2
Major (Core)	MLT242M102/MLT242M112	Basic Medical laboratory Management (Theory +Lab)	100	4	3-0-2
Major (Core)	MLT242M103/MLT242M113	Human Physiology (Theory+ Lab)	100	4	3-0-2
Interdisciplinary (IDC)	IKS992K101	IKS-I	100	3	3-0-0
Ability Enhancement course (AEC)	CEN982A101	Communicative English I	100	1	1-0-0
Ability Enhancement course (AEC)	BHS982A102	Behavioural Science I	100	1	1-0-0
Skill Enhancement Course (SEC)	MLT242S111	Computer Application	100	4	0-0-8
Value Added Course (VAC)	-	Selected from the pool of courses offered	100	3	3-0-0
SWAYAM Course				3/4	
TOTAL CREDIT FOR 1st SEMESTER					
2nd SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major (Core)	MLT242M201/MLT242M211	Fundamentals of biochemistry (Theory +Lab)	100	4	3-0-2
Major (Core)	MLT242M202/MLT242M212	Basic Microbiology	100	4	3-0-2

		(Theory +Lab)			
Major (Core)	MLT242M203	General Pathology	100	3	3-0-0
IDC	IKS992K201	IKS-2	100	3	3-0-0
AEC	CEN982A201	Communicative English II	100	1	1-0-0
AEC	BHS982A202	Behavioural Science I	100	1	1-0-0
SEC	MLT242S211	Diagnostic Instrumentation I	100	4	0-0-8
VAC	-	Selected from the pool of courses offered	100	3	3-0-0
SWAYAM Course				3/4	
TOTAL CREDIT FOR 2nd SEMESTER					
3rd SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major (Core)	MLT242M301/MLT242M311	Immunology and Serology (Theory + Lab)	200	4	3-0-2
Major (Core)	MLT242M302/MLT242M312	Advanced clinical Biochemistry (Theory + Lab)	200	4	3-0-2
Major (Core)	MLT242M303/MLT242M313	Systemic bacteriology (Theory + Lab)	200	4	3-0-2
Major (Core)	MLT242M304	Basic Hematology	200	3	3-0-0
IDC	MLT242I301	Fundamentals of MLT (offered to other departments)	200	3	3-0-0
AEC	CEN982A301	Communicative English-III	200	1	1-0-0
AEC	BHS982A302	Behavioral science- III	200	1	1-0-0
SWAYAM Course				3/4	
TOTAL CREDIT FOR 3rd SEMESTER					
4th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P

Major (Core)	MLT242M401/MLT242M411	Advanced Haematology (Theory+Lab)	200	4	3-0-2
Major (Core)	MLT242M402/MLT242M412	Histopathology & Cytopathology (Theory+Lab)	200	4	3-0-2
Major (Core)	MLT242M403/MLT242M413	Clinical Parasitology (Theory+Lab)	200	4	3-0-2
Major (Core)	MLT242M404	Enzymology & Nutrition	200	3	3-0-0
AEC	CEN982A401	Communicative English-IV	200	1	1-0-0
AEC	BHS982A402	Behavioural science-IV	200	1	1-0-0
SWAYAM Course				3/4	
TOTAL CREDIT FOR 4th SEMESTER					
5th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major (Core)	MLT242M501/MLT242M511	Mycology (Theory+Lab)	300	4	3-0-2
Major (Core)	MLT242M502/MLT242M512	Diagnostic Molecular Biology (Theory+Lab)	300	4	3-0-2
Major (Core)	MLT242M503/MLT242M513	Advanced Blood Banking (Theory+Lab)	300	4	3-0-2
Major (Core)	MLT242M504/MLT242M514	Immunopathology (Theory+Lab)	300	4	3-0-2
Major (Core)	MLT242I521	Clinical Posting	300	4	-
TOTAL CREDIT FOR 5th SEMESTER				20	
6th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major (Core)	MLT242M601/MLT242M611	Virology (Theory+Lab)	300	4	3-0-2
Major (Core)	MLT242M602	Medical Law and Patient Safety	300	3	3-0-0
Major (Core)	MLT242M603	Biostatistics and	300	3	3-0-0

		Research Methodology			
Major (Core)	MLT242M604	Quality control and Bio safety	300	3	3-0-0
TOTAL CREDIT FOR 6th SEMESTER				13	
7th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major (Core)	MLT242M711	Internship/ Apprenticeship	400	15	
TOTAL CREDIT FOR 7th SEMESTER				15	
8th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major (Core)	MLT242M811	Internship/ Apprenticeship	400	15	
Project / Dissertation	MLT242M822	Project / Dissertation	400	12	
TOTAL CREDIT FOR 8th SEMESTER				27	