

**STRUCTURE OF THE SYLLABUS FOR MEDICAL LABORATORY
TECHNOLOGY AY (2025-26)**

SCHOOL NAME - RSMAS
DEPARTMENT NAME - MLT
PROGRAMME NAME- MMLT (2025-26) SPECIALIZATION IN HEMATOLOGY AND BLOOD BANKING AND MEDICAL MICROBIOLOGY

TOTAL CREDIT (4 SEMESTERS)- 88
PROJECT/DISSERTATION – 4TH SEMESTER

1st SEMESTER				
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
MLT244C101/ MLT244C111	Clinical Pathology (Theory +Lab)	400	4	2-0-4
MLT244C102/ MLT244C112	Biochemistry I (Theory + lab)	400	4	2-0-4
MLT244C103/ MLT244C113	Immunology and Serology (Theory+Lab)	400	4	2-0-4
MLT244C104/ MLT144C114	Histopathology and Cytopathology (Theory +Lab)	400	4	2-0-4
MLT244C105	Advanced Diagnostic Techniques	400	3	3-1-0
MLT244C106	Biostatistics and Research Methodologies	400	3	3-1-0
MOOC (Swayam courses)		400	4	
TOTAL CREDIT FOR 1st SEMESTER			28	24
2nd SEMESTER				
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
MLT244C201/ MLT244C211	Medical Bacteriology and Mycology (Theory +Lab)/ Haematology I and Blood Banking I (Theory + Lab)	500	4	2-0-4
MLT244C202/ MLT244C212	Biochemistry II (Theory + Lab)	500	4	2-0-4
MLT244C203/ MLT244C213	Diagnostic Molecular Biology (Theory + Lab)	500	4	2-0-4
MLT244C204	Medical Lab Management	500	4	3-1-4
MOOC (Swayam courses)		500	4	
TOTAL CREDIT FOR 2nd SEMESTER			20	16
TOTAL CREDIT FOR 1st YEAR = 40				
3rd SEMESTER (Specialization in Hematology and Blood Banking)				
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
MLT244C301/ MLT244C311	Hematology-II (Theory+Lab)	500	6	3-0-6
MLT244C302/ MLT244C312	Blood banking-II and Coagulation (Theory+Lab)	500	6	3-0-6
MLT244C303	Bioethics, IPR, Biosafety	500	4	3-1-0
MLT244C304	Cytogenetics and molecular genetics	500	4	3-1-0
TOTAL CREDIT FOR 3rd SEMESTER			20	20

3rd SEMESTER				
(Specialization in Medical Microbiology)				
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
MLT244C301/ MLT244C311	Medical Parasitology (Theory+Lab)	500	6	3-0-6
MLT244C302/ MLT244C312	Medical Virology (Theory+Lab)	500	6	3-0-6
MLT244C303	Bioethics, IPR, Biosafety	500	4	3-1-0
MLT244C304	Cytogenetics and molecular genetics	500	4	3-1-0
TOTAL CREDIT FOR 3rd SEMESTER			20	20
4th SEMESTER				
COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
MLT244C421	Project/Dissertation	500	20	0-0-20
TOTAL CREDIT FOR 3rd SEMESTER			20	20
TOTAL CREDIT FOR 2nd YEAR = 40				
TOTAL CREDIT FOR COURSE = 88				