

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

<b>SCHOOL NAME - RSMAS</b>
<b>DEPARTMENT NAME - MLT</b>
<b>PROGRAMME NAME- MMLT (2025-26) SPECILIZATION IN HEMATOLOGY AND BLOOD BANKING AND MEDICAL MICROBIOLOGY</b>

<b>TOTAL CREDIT (4 SEMRESTERS)- 88</b>
<b>PROJECT/DISSERTATION – 4<sup>TH</sup> SEMESTER</b>

<b>1<sup>st</sup> SEMESTER</b>				
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>LEVEL</b>	<b>CREDIT</b>	<b>L-T-P</b>
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	
<b>TOTAL CREDIT FOR 1<sup>st</sup> SEMESTER</b>			<b>28</b>	<b>24</b>
<b>2<sup>nd</sup> SEMESTER</b>				
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>LEVEL</b>	<b>CREDIT</b>	<b>L-T-P</b>
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	
<b>TOTAL CREDIT FOR 2<sup>nd</sup> SEMESTER</b>			<b>20</b>	<b>16</b>
<b>TOTAL CREDIT FOR 1<sup>st</sup> YEAR = 40</b>				
<b>3<sup>rd</sup> SEMESTER (Specialization in Hematology and Blood Banking)</b>				
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>LEVEL</b>	<b>CREDIT</b>	<b>L-T-P</b>
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
<b>TOTAL CREDIT FOR 3<sup>rd</sup> SEMESTER</b>			<b>20</b>	<b>20</b>

<b>3<sup>rd</sup> SEMESTER</b> <b>(Specialization in Medical Microbiology)</b>				
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>LEVEL</b>	<b>CREDIT</b>	<b>L-T-P</b>
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
<b>TOTAL CREDIT FOR 3<sup>rd</sup> SEMESTER</b>			<b>20</b>	<b>20</b>
<b>4<sup>th</sup> SEMESTER</b>				
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>LEVEL</b>	<b>CREDIT</b>	<b>L-T-P</b>
MLT244C421	Project/Dissertation	500	20	0-0-20
<b>TOTAL CREDIT FOR 3<sup>rd</sup> SEMESTER</b>			<b>20</b>	<b>20</b>
<b>TOTAL CREDIT FOR 2<sup>nd</sup> YEAR = 40</b>				
<b>TOTAL CREDIT FOR COURSE = 88</b>				