

**RAJARSHI JANAK UNIVERSITY**  
**CURRICULUM STRUCTURE OF B.SC. MLT**

**FIRST YEAR**  
FIRST SEMESTER

<b>Course Code</b>	<b>Subjects</b>	<b>Marks (Theory)</b>	<b>Marks (Practica)</b>	<b>Total Marks</b>	<b>Credit Hours</b>
SMLT-111	Clinical Anatomy	50	-	50	3
SMLT-112	Clinical Physiology	50	-	50	3
SMLT-113	Medical Microbiology I	50	-	50	3
SMLT-114	Clinical Biochemistry I	50	-	50	3
SMLT-115	Haematology I	50	-	50	3
SMLT-116	Clinical Anatomy Practical	-	50	50	1
SMLT-117	Clinical Physiology Practical	-	50	50	1
SMLT-118	Medical Microbiology Practical I	-	50	50	1
SMLT-119	Clinical Biochemistry Practical I	-	50	50	1
SMLT-120	Haematology Practical I	-	50	50	1
	<b>TOTAL</b>	<b>250</b>	<b>250</b>	<b>500</b>	<b>20</b>

**FIRST YEAR**  
SECOND SEMESTER

<b>Course Code</b>	<b>Subjects</b>	<b>Marks (Theory)</b>	<b>Marks (Practical)</b>	<b>Total Marks</b>	<b>Credit Hours</b>
SMLT-121	Medical Laboratory Science	50	-	50	3
SMLT-122	Pathology (General & Systemic)	50	-	50	3
SMLT-123	Medical Microbiology II	50	-	50	3
SMLT-124	Clinical Biochemistry II	50	-	50	3
SMLT-125	Haematology II	50	-	50	3
SMLT-126	Pathology Practical	-	50	50	1
SMLT-127	Medical Microbiology Practical II	-	50	50	1
SMLT-128	Clinical Biochemistry Practical II	-	50	50	1
SMLT-129	Haematology Practical II	-	50	50	1
	<b>TOTAL</b>	<b>250</b>	<b>200</b>	<b>450</b>	<b>19</b>

**SECOND YEAR**  
THIRD SEMESTER

<b>Course Code</b>	<b>Subjects</b>	<b>Marks (Theory)</b>	<b>Marks (Practical)</b>	<b>Total Marks</b>	<b>Credit Hours</b>
SMLT-211	Health and Diseases	50	-	50	3
SMLT-212	Biostatistics	50	-	50	3
SMLT-213	Molecular Biology	50	-	50	3
SMLT-214	Medical Microbiology III	50	-	50	3
SMLT-215	Clinical Biochemistry III	50	-	50	3
SMLT-216	General Cytology & Histology	50	-	50	3
SMLT-217	Medical Microbiology Practical III	-	50	50	1
SMLT-218	Clinical Biochemistry Practical III	-	50	50	1
SMLT-219	General Cytology & Histology Practical	-	50	50	1
	<b>TOTAL</b>	<b>300</b>	<b>150</b>	<b>450</b>	<b>21</b>

**SECOND YEAR**  
FOURTH SEMESTER

<b>Course Code</b>	<b>Subjects</b>	<b>Marks (Theory)</b>	<b>Marks (Practical)</b>	<b>Total Marks</b>	<b>Credit Hours</b>
SMLT-221	Analytical Biochemistry	50	-	50	3
SMLT-222	Medical Microbiology IV	50	-	50	3
SMLT-223	Clinical Biochemistry IV	50	-	50	3
SMLT-224	Haematology III	50	-	50	3
SMLT-225	Cytopathology	50	-	50	3
SMLT-226	Medical Microbiology Practical IV	-	50	50	1
SMLT-227	Clinical Biochemistry Practical IV	-	50	50	1
SMLT-228	Haematology Practical III	-	50	50	1
SMLT-229	Cytopathology Practical	-	50	50	1
	<b>TOTAL</b>	<b>250</b>	<b>200</b>	<b>450</b>	<b>19</b>

**THIRD YEAR**  
**FIFTH SEMESTER**

<b>Course Code</b>	<b>Subjects</b>	<b>Marks (Theory)</b>	<b>Marks (Practical)</b>	<b>Total Marks</b>	<b>Credit Hours</b>
SMLT-311	Applied Biochemistry	50	-	50	3
SMLT-312	Medical Microbiology V	50	-	50	3
SMLT-313	Clinical Biochemistry V	50	-	50	3
SMLT-314	Haematology IV	50	-	50	3
SMLT-315	Histopathology I	50	-	50	3
SMLT-316	Medical Microbiology Practical V	-	50	50	1
SMLT-317	Clinical Biochemistry Practical V	-	50	50	1
SMLT-318	Haematology Practical IV	-	50	50	1
SMLT-319	Histopathology Practical I	-	50	50	1
	<b>TOTAL</b>	<b>250</b>	<b>200</b>	<b>450</b>	<b>19</b>

**THIRD YEAR**  
**SIXTH SEMESTER**

<b>Course Code</b>	<b>Subjects</b>	<b>Marks (Theory)</b>	<b>Marks (Practical)</b>	<b>Total Marks</b>	<b>Credit Hours</b>
SMLT-321	Research Methodology	50	-	50	3
SMLT-322	Clinical Pharmacology	50	-	50	3
SMLT-323	Public Health Microbiology	50	-	50	3
SMLT-324	Medical Microbiology VI	50	-	50	3
SMLT-325	Clinical Biochemistry VI	50	-	50	3
SMLT-326	Histopathology II	50	-	50	3
SMLT-327	Medical Microbiology Practical VI	-	50	50	1
SMLT-328	Clinical Biochemistry Practical VI	-	50	50	1
SMLT-329	Histopathology Practical II	-	50	50	1
	<b>TOTAL</b>	<b>300</b>	<b>150</b>	<b>450</b>	<b>21</b>

**FOURTH YEAR**  
SEVENTH SEMESTER

<b>Course Code</b>	<b>Subjects</b>	<b>Marks (Theory)</b>	<b>Marks (Practical)</b>	<b>Total Marks</b>	<b>Credit Hours</b>
SMLT-411	Forensic Medicine & Medical Juriprudence	50	-	50	3
SMLT-412	Health Policy and Health System	50	-	50	3
SMLT-413	Molecular & Applied Microbiology	50	-	50	3
SMLT-414	Clinical Biochemistry VII	50	-	50	3
SMLT-415	Haematology V (Blood Banking)	50	-	50	3
SMLT-416	Molecular & Applied Microbiology Practical	-	50	50	1
SMLT-417	Clinical Biochemistry Practical VII	-	50	50	1
SMLT-418	Haematology (Blood Banking) Practical V	-	50	50	1
	<b>TOTAL</b>	<b>250</b>	<b>150</b>	<b>400</b>	<b>18</b>

**FOURTH YEAR**  
EIGHTH SEMESTER

<b>Course Code</b>	<b>Subjects</b>	<b>Total Marks</b>	<b>Credit Hours</b>
SMLT-421	Internship	200	4
SMLT-422	Project Work & Presentation	100	6
	<b>TOTAL</b>	<b>300</b>	<b>10</b>

**TOTAL MARKS = 3450 / TOTAL CREDIT HOURS = 147**