

**BACHELOR OF SCIENCE IN MEDICAL LABORATORY TECHNOLOGY**  
**Syllabus**

(Detailed Syllabus will be available from universities concerned or from the Directorate of Medical Education, Thiruvananthapuram by paying an amount of Rs.50/- as DD in favour of Secretary ,paramedical council payable at SBT Main Branch , Thiruvananthapuram).

Hour distribution for each subject for each subject is as per the table no. I

Subject		Total Hours/subject/year			
		Theoy Hours	Practical Hours	Clinical Posting Hours	Total Hrs/ year
<b>First Year</b>					
Paper-I	Anatomy	100	80	-	180
	Physiology	115	65	-	180
Paper-II	Biochemistry-I	130	230	-	360
Paper III	Basic Microbiology & Immunology	130	230	-	360
Paper IV	General & Clinical Pathology	130	230	-	360
<b>Second year</b>					
Paper V	Biochemistry II	90	174	96	360
Paper VI	General Microbiology	90	174	96	360
Paper VII	Parasitology& Entomology	90	174	96	360
Paper VIII	Haematology	90	174	96	360
<b>Third year</b>					
Paper IX	Biochemistry III	96	174	130	400
Paper X	Bacteriology	96	174	130	400
Paper XI	Cytology and Transfusion technology	96	174	130	400
Paper XII	Electronics, Computer science&Biomedical Instrumentation technology	96	74	70	240
<b>Fourth year</b>					
Paper XIII	Biochemistry IV	90	180	160	430
Paper XIV	Mycology Virology Applied Microbiology	90	180	160	430
Paper XV	Histotechnology and cytogenetics	90	180	160	430
Paper XVI	Project	150			150

**Examination**

Regulation and scheme of examination

1. There shall be university regular examination at the end of each Year, in case of failed/not appeared candidates a supplementary examination will be conducted before the next regular examination.

2. No candidates shall be admitted to any BSc (MLT) examination unless he/she has a minimum of 80% attendance. A candidate who has not attained 80% attendance and the shortage is beyond the condonable limit he/ she shall not be eligible to continue the course with the same batch of students. He/She may obtain special sanction from the concerned authorities to continue with the junior batch of students.

3. The sectional marks in theory/Practical shall be based on the average of 3 examination.
4. Student shall be promoted to the subsequent years irrespective of whether he/she has passed the first, second or third year university examinations provided he/she has attained 80% attendance and appeared in all the sessional examinations for both theory and practical in the respective year. But a candidate appearing the fourth year BSc (MLT) examination shall have passed in all the subjects of first, second and third year BSc (MLT) examinations.
5. Those who have secured 50% marks and less than 65% of the total marks shall be placed in the second class and those who have secured 65% and above shall be placed in the first class. Those who have secured 75% or above shall be declared to have passed in first class with Distinction.

For awarding class in the final BSc(MLT)degree examination, the total marks obtained in the I,II,III&I BSC(MLT) examination will be taken and the final BSc(MLT) mark list will contain the following details.

	Maximum marks	Minimum marks
Total marks awarded in the I BSc (MLT)		
Total marks awarded in the II BSc (MLT)		
Total marks awarded in the III BSc (MLT)		
Detailed mark list of IV <sup>th</sup> BSc (MLT)		
Grand total of I, II, III&IV BSC (MLT) examination marks.		

6. The First class/First class with Distinction/rank will be declared based on the total marks obtained for the first, second, third and fourth BSc (MLT) examination provided the candidate has passed all the subjects in the first attempt,

### **Scheme of Examination**

<b>Paper-I</b>	<b>First year</b> Anatomy Physiology Anatomy including Histology -Section A Physiology including Biophysics- Section B
<b>Paper-II</b>	Biochemistry-I Section A & Section B
<b>Paper III</b>	Basic Microbiology & Immunology Section A & Section B
<b>Paper IV</b>	General & Clinical Pathology Section A & Section B
Practical examination in Paper I will be for two days, one day for section A and the other for section B. Practical Examination in Paper II, III & IV will be in one day for each paper.	
	<b>Second year</b>
<b>Paper V</b>	Biochemistry II Section A & Section B
<b>Paper VI</b>	General Microbiology Section A & Section B
<b>Paper VII</b>	Parasitology & Entomology Parasitology - Section A Entomology - Section B
<b>Paper VIII</b>	Haematology Section A & Section B
Practical examination in Paper V & VI will be in two consecutive days for each paper and & paper VIII will be in one day and for Paper VII will be for two days, one day for Parasitology	



There shall be two examiners –one internal and one external. The external examiner shall be drawn from a sister university in Kerala or outside Kerala where a similar course is being conducted. Both internal and external examiners should preferably be those who are full time teachers of Medical Laboratory technology.

One set of Examiners will be sufficient (one external and one internal) to conduct the examination in all the subject except in paper I (Anatomy Physiology) , Paper VII(Parasitology&Entomology) and paper XI(Cytology&Transfusion Technology).

1. Anatomy and Physiology. There shall be one set of examiner for Anatomy and one set of examiner for Physiology.
2. Parasitology and Entomology-. One set of examiner for Entomology and the other set for Parasitology.
3. Cytology and Transfusion technology – One set of examiner for cytology and the other set for Transfusion technology.

The external Examiner will have to hand over the original mark list to the Chairman and the duplicate mark list to the Controller of Examinations.

### **Question paper setters**

Question paper setters shall be posted from among the senior faculties of Kerala Universities or from other sister Universities where BSc (MLT) course is being conducted.

### **Setting up of Question Paper**

All the question paper should be of standard type. Each theory paper will be of 3 hours duration and shall consist of eight questions with a maximum of 100 marks. Theory paper in all the subjects will consists of 2 sections-Section A&B

Each section carries 50 marks and shall consist of one essay type question with 10 marks, four brief answer type questions carrying 5 marks , five short answer type questions carrying 3 marks and five one word/sentence type questions for 5 marks.

Section A&B will have to be answered in separate answer book.