

Punjab Technical University Kapurthala

**Scheme and Syllabus
of**

**Masters in Sciences Medical Laboratory Technology (Biochemistry)
M.Sc. MLT (Biochemistry)
Batch 2012 onwards**

By

Board of Studies MLT/ MLS

PTU/BOS/July 03, 2012
Scheme and Syllabus of M.Sc. MLT (Biochemistry)

First Semester

Contact Hours: 35 Hrs.

Course Code	Course Title	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
MMLT101	Analytical & Physical Biochemistry	4	1	-	50	100	150	5
MMLT102	Enzymes & Metabolism –I	4	-	-	50	100	150	4
MMLT103	Statistics & Clinical Biochemistry Laboratory Management	4	1	-	50	100	150	5
MMLT104	Practical –I	-	-	8	50	100	150	4
MMLT105	Practical –II	-	-	8	50	100	150	4
MMLT106	Practical –III	-	-	5	50	100	150	3
Total		12	2	21	300	600	900	25

Second Semester

Contact Hours: 35 Hrs.

Course Code	Course Title	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
MMLT201	Principles of Biochemistry	4	1	-	50	100	150	5
MMLT202	Enzymes & Metabolism –II	4	-	-	50	100	150	4
MMLT203	Vitamins, Hormones, General Physiology and Nutrition	4	1	-	50	100	150	5
MMLT204	Practical –IV	-	-	8	50	100	150	4
MMLT205	Practical –IV	-	-	8	50	100	150	4
MMLT206	Practical –V	-	-	5	50	100	150	3
Total		12	2	21	300	600	900	25

Third Semester

Contact Hours: 35 Hrs.

Course Code	Course Title	Load Allocation			Marks Distribution		Total Marks	Credits
		L	T	P	Internal	External		
MMLT301	Organ Function Tests	4	1	-	50	100	150	5
MMLT302	Clinical Biochemistry	4	-	-	50	100	150	4
MMLT303	Molecular Biology	4	1	-	50	100	150	5
MMLT304	Practical –VI	-	-	8	50	100	150	4
MMLT305	Practical –VII	-	-	8	50	100	150	4
MMLT306	Practical –VIII	-	-	5	50	100	150	3
Total		12	2	21	300	600	900	25

Fourth Semester

Contact Hours: 30 Hrs.

Course Code	Course Title	Load Allocation	Marks Distribution		Total Marks	Credits
			Internal	External		
MMLT401	Dissertation	Submission within 05 Months	150	150	300	25