

Dr. D.Y. Patil School of Allied Health Sciences

**Dr. D. Y. Patil Vidyapeeth, Pune
(Deemed to be University)**



Programme Framework

**Bachelor of Science in Medical
Laboratory Technology
(B.Sc. MLT)**

First Year

First Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BMLT 101	Introduction to Healthcare Delivery System in India	2	0	2	30	0	30	40	80	80	200
	Medical Terminology and record keeping (including anatomical terms)	1	0	1	15	0	15				
	Medical Law and Ethics	1	0	1	15	0	15				
	Introduction to Quality and patient safety	1	1	2	15	30	45				
BMLT 102	Basic computers and information Science	1	2	3	15	60	75	30	60	60	150
	Research Methodology and Biostatistics	2	1	3	30	30	60				
BMLT 103	Basic English and Communication	2	0	2	30	0	30	40	80	80	200
	Professionalism and values	1	1	2	15	30	45				
	Principles of Management	2	0	2	30	0	30				
BMLT 104	Community orientation and clinical visit	0	2	2	0	60	60				
Total		13	7	20	195	210	405	120	240	240	550

Second Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BMLT 201	Human Anatomy and Physiology	6	2	8	90	60	150	40	80	80	200
BMLT 202	Biochemistry	2	1	3	30	30	60	40	80	80	200
BMLT 203	Basics of Medical Disorders	2	2	4	30	60	90	40	80	80	200
BMLT 204	BMLT Directed Clinical Education – part I (studentship)*	0	5	5	0	150	150	50	0	0	50
Total		10	10	20	150	300	450	170	240	240	650

Second Year Third Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BMLT 301	Pathology	3	2	5	45	60	105	40	80	80	200
BMLT 302	Microbiology	3	2	5	45	60	105	40	80	80	200
BMLT 303	Pharmacology	3	2	5	45	60	105	40	80	80	200
BMLT 304	BMLT Directed Clinical Education – Part II (studentship)*	0	5	5	0	150	150	50	0	0	50
	Total	9	11	20	135	330	465	170	240	240	650

Fourth Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BMLT 401	Applied Biochemistry	2	2	4	30	60	90	40	80	80	200
BMLT 402	Histopathology	2	3	5	30	90	120	40	80	80	200
BMLT 403	Immunology and Mycology	3	3	6	45	90	135	40	80	80	200
BMLT 404	BMLT Directed Clinical Education – part III (studentship)*	0	5	5	0	150	150	50	0	0	50
	Total	7	13	20	105	390	495	170	240	240	650

Third Year Fifth Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BMLT 501	Biochemical Metabolism-I	2	3	5	30	90	120	40	80	80	200
BMLT 502	Hematology	2	3	5	30	90	120	40	80	80	200
BMLT 503	Parasitology and Virology	2	3	5	30	90	120	40	80	80	200
BMLT 504	BMLT Directed Clinical Education – part IV (studentship)*	0	5	5	0	150	150	50	0	0	50
Total		6	14	20	90	420	510	170	240	240	650

Sixth Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BMLT 601	Biochemical Metabolism-II	2	3	5	30	90	120	40	80	80	200
BMLT 602	Cytology	2	3	5	30	90	120	40	80	80	200
BMLT 603	Systemic Bacteriology	2	3	5	30	90	120	40	80	80	200
BMLT 604	BMLT Directed Clinical Education – part V (studentship)*	0	5	5	0	150	150	50	0	0	50
Total		6	14	20	90	420	510	170	240	240	650

Fourth Year

Seventh and Eighth Semester

Course Title	Hours		
	Theory	Practical	Total
Internship and Project Work	0	1200	1200
Credits	40		