

**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	2	1	3	30	30	60				
BMLT 102	Basic computers and Information Science	1	1	2	15	30	45	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				
<b>Total</b>		<b>14</b>	<b>6</b>	<b>20</b>	<b>210</b>	<b>180</b>	<b>390</b>	<b>110</b>	<b>220</b>	<b>220</b>	<b>550</b>

## 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
<b>Total</b>		<b>10</b>	<b>10</b>	<b>20</b>	<b>150</b>	<b>300</b>	<b>450</b>	<b>170</b>	<b>240</b>	<b>240</b>	<b>650</b>

## 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
	<b>Total</b>	<b>9</b>	<b>11</b>	<b>20</b>	<b>135</b>	<b>330</b>	<b>465</b>	<b>170</b>	<b>240</b>	<b>240</b>	<b>650</b>

## 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
	<b>Total</b>	<b>7</b>	<b>13</b>	<b>20</b>	<b>105</b>	<b>390</b>	<b>495</b>	<b>170</b>	<b>240</b>	<b>240</b>	<b>650</b>

## 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
<b>Total</b>		<b>6</b>	<b>14</b>	<b>20</b>	<b>90</b>	<b>420</b>	<b>510</b>	<b>170</b>	<b>240</b>	<b>240</b>	<b>650</b>

## 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
<b>Total</b>		<b>6</b>	<b>14</b>	<b>20</b>	<b>90</b>	<b>420</b>	<b>510</b>	<b>170</b>	<b>240</b>	<b>240</b>	<b>650</b>

# Fourth Year

## Seventh and Eighth Semester

Course Title	Hours		
	Theory	Practical	Total
Internship and Project Work	0	1200	1200
<b>Credits</b>	<b>40</b>		