

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

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



**Programme Framework**

**Master of Science in Emergency Care  
and Critical Technology  
(M.Sc. ECCT)**

## First Year First Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
MECCT 101	Applied Anatomy And Physiology	4	3	7	60	90	150	40	80	80	200
MECCT 102	Applied Pharmacology And Pathology	4	3	7	60	90	150	40	80	80	200
MECCT 103	Applied Biochemistry	2	4	6	30	120	150	40	80	80	200
	<b>Total</b>	<b>10</b>	<b>10</b>	<b>20</b>	<b>150</b>	<b>300</b>	<b>450</b>	<b>120</b>	<b>240</b>	<b>240</b>	<b>600</b>

## Second Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
MECCT201	Applied Microbiology	3	3	6	45	90	135	40	80	80	200
MECCT202	General Critical Care-I	2	3	5	30	90	120	40	80	80	200
MECCT203	Advance Respiratory, Nephro, Neuro and Cardiac Care Technology	5	4	9	75	120	195	40	80	80	200
	<b>Total</b>	<b>10</b>	<b>10</b>	<b>20</b>	<b>150</b>	<b>300</b>	<b>450</b>	<b>120</b>	<b>240</b>	<b>240</b>	<b>600</b>

## Second Year Third Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
MECCT 301	Introduction to Emergency Services & ED equipments	4	4	8	60	120	180	40	80	80	200
MECCT 302	General Critical Care - II	3	4	7	45	120	165	40	80	80	200
MECCT 303	ICU Therapy	3	3	6	45	90	135	40	80	80	200
	<b>Total</b>	<b>10</b>	<b>11</b>	<b>21</b>	<b>150</b>	<b>330</b>	<b>480</b>	<b>120</b>	<b>240</b>	<b>240</b>	<b>600</b>

## Fourth Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
MECCT 401	Advanced Critical Care	3	4	7	45	120	165	40	80	80	200
MECCT 402	Medical and Surgical Emergencies	4	4	8	60	120	180	40	80	80	200
MECCT 403	Dissertation	1	4	5	15	120	135	100	0	100	200
	<b>Total</b>	<b>8</b>	<b>12</b>	<b>20</b>	<b>120</b>	<b>360</b>	<b>480</b>	<b>180</b>	<b>160</b>	<b>260</b>	<b>600</b>