#### 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 Respiratory
Care Technology
(B.Sc. RCT)

# First Year First Semester

Course			Credit			Hours			Mar	·ks	
code	Course Title	Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
	Introduction to Healthcare Delivery System in India	2	0	2	30	0	30				
BRCT 101	Medical Terminology and record keeping (including anatomical terms)	1	0	1	15	0	15	40	80	80	200
	Medical Law and Ethics	1	0	1	15	0	15				
	Introduction to Quality and patient safety	2	1	3	30	30	60				
BRCT	Basic computers and Information Science	1	1	2	15	30	45	30	60	60	150
102	Research Methodology and Biostatistics	2	1	3	30	30	60	30	60	60	150
	Basic English and Communication	2	0	2	30	0	30				
BRCT 103	Professionalism and Values	1	1	2	15	30	45				
	Principles of Management	2	0	2	30	0	30	40	80	80	200
BRCT 104	Community orientation and clinical visit	0	2	2	0	60	60				
	Total	14	6	20	210	180	390	110	220	220	550

#### **Second Semester**

G			Credit			Hours		Marks			
Course code	Course Title	Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BRCT 201	Human Anatomy and Physiology	6	2	8	90	60	150	40	80	80	200
BRCT 202	Biochemistry	2	1	3	30	30	60	40	80	80	200
BRCT 203	Basics of Medical Disorders	2	2	4	30	60	90	40	80	60	200
BRCT 204	BRCT 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

		Credit Hours					Marks					
Course code	Course Title	Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total	
BRCT 301	Pathology	3	2	5	45	60	105	40	80	80	200	
BRCT 302	Microbiology	3	2	5	45	60	105	40	80	80	200	
BRCT 303	Pharmacology	3	2	5	45	60	105	40	80	80	200	
BRCT 304	BRCT 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**

			Credit			Hours			M	Iarks	
Course code	Course Title	Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BRCT 401	Applied Pathology	2	3	5	30	90	120	40	80	80	200
BRCT 402	Applied Microbiology	2	3	5	30	90	120	40	80	80	200
BRCT 403	Introduction to Respiratory care technology	3	2	5	45	60	105	40	80	80	200
BRCT 404	BRCT 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

		Credit			Hours			Marks			
Course code	Course Title	Theory	Practical	Total	Theor y	Practical	Total	Internal	Theor y	Practical	Total
BRCT 501	Basic Respiratory care technology	3	3	6	45	90	135	40	80	80	200
BRCT 502	Basic Respiratory therapeutics and monitoring	2	3	5	30	90	120	40	80	80	200
BRCT 503	Chest Physical Therapy and Pulmonary Rehabilitation	2	2	4	30	60	90	40	80	80	200
BRCT 504	BRCT Directed Clinical Education – part IV (studentship)*	0	5	5	0	150	150	50	0	0	50
		7	13	20	105	390	495	170	240	240	650

#### **Sixth Semester**

_			Credit			Hours			Marks			
Course code	Course Title	Theory	Practical	Total	Theory	Practic al	Total	Internal	Theory	Practical	Total	
BRCT 601	Respiratory Care Technology - Clinical	2	3	5	30	90	120	40	80	80	200	
BRCT 602	Respiratory Care Technology - Applied	2	3	5	30	90	120	40	80	80	200	
BRCT 603	Respiratory Care Technology - Advanced	2	3	5	30	90	120	40	80	80	200	
BRCT 604	BRCT 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

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