

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 Dialysis Technology
(B.Sc. DT)**

First Year

First Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BDT 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				
BDT 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				
BDT 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				
BDT 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

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BDT 201	Human Anatomy and Physiology	6	2	8	90	60	150	40	80	80	200
BDT 202	Applied anatomy and physiology related to Dialysis Therapy Technology	3	1	4	45	30	75	40	80	80	200
BDT 203	Biochemistry	2	1	3	30	30	60	40	80	80	200
BDT 204	BDT Directed Clinical Education – part I (studentship)*	0	5	5	0	150	150	50	0	0	50
Total		11	9	20	165	270	435	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
BDT 301	Pathology	3	1	4	45	30	75	40	80	80	200
BDT 302	Microbiology	3	2	5	45	60	105	40	80	80	200
BDT 303	Applied pathology & microbiology related to Dialysis Therapy Technology	4	2	6	60	60	120	40	80	80	200
BDT 304	BDT Directed Clinical Education – part II (studentship)*	0	5	5	0	150	150	50	0	0	50
Total		10	10	20	150	300	450	170	240	240	650

Fourth Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BDT 401	Pharmacology in Dialysis	4	1	5	60	30	90	40	80	80	200
BDT 402	Fundamentals of Dialysis	3	2	5	45	60	105	40	80	80	200
BDT 403	Applied Dialysis Therapy Technology – Part I	3	2	5	45	60	105	40	80	80	200
BDT 404	BDT Directed Clinical Education – part III (studentship)*	0	5	5	0	150	150	50	0	0	50
Total		10	10	20	150	300	450	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
BDT 501	Nutrition in Dialysis	3	2	5	45	60	105	40	80	80	200
BDT 502	Concepts of Renal Disease & Disorders	4	1	5	60	30	90	40	80	80	200
BDT 503	Applied Dialysis Therapy Technology – Part II	3	2	5	45	60	105	40	80	80	200
BDT 504	BDT Directed Clinical Education – part IV (studentship)*	0	5	5	0	150	150	50	0	0	50
Total		10	10	20	150	300	450	170	240	240	650

Sixth Semester

Course code	Course Title	Credit			Hours			Marks			
		Theory	Practical	Total	Theory	Practical	Total	Internal	Theory	Practical	Total
BDT 601	Medical Bioethics and IPR	3	2	5	45	60	105	40	80	80	200
BDT 602	Renal Transplant Science	3	1	4	45	30	75	40	80	80	200
BDT 603	Applied Dialysis Therapy Technology – Part III	4	2	6	60	60	120	40	80	80	200
BDT 604	BDT Directed Clinical Education – part V (studentship)*	0	5	5	0	150	150	50	0	0	50
Total		10	10	20	150	300	450	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		