

Bachelor of Cardiovascular Technology (B.CVT)

Semester I

S. No.	Course Code	Course Title	(Hours)					Credits as per NCrf				
			L	T/C	P	J	Total	L	T	P	J	Total
1	BCVT01	Anatomy for Health Sciences	45	0	30	0	75	3	0	1	0	4
2	BCVT02	Physiology for Health Sciences	45	0	30	0	75	3	0	1	0	4
3	BCVT03	Biochemistry for Health Sciences	30	0	30	0	60	2	0	1	0	3
4	BCVT04	Microbiology for Health Sciences	30	0	30	0	60	2	0	1	0	3
5	BCVT05	Medical Terminologies	15	0	0	0	15	1	0	0	0	1
6	BCVT06	Professional Communication	0	0	30	0	30	0	0	1	0	1
7	BCVT07	Basics of ECG	30	0	30	0	60	2	0	1	0	3
8	BCVT08	Computer Applications in Healthcare	0	0	30	0	30	0	0	1	0	1
Total Credits			195	0	210	0	405	13	0	7	0	20

Semester II												
S. No.	Course Code	Course Title	(Hours)					Credits as per NCrF				
			L	T/C	P	J	Total	L	T	P	J	Total
9	BCVT09	Pathology for Health Sciences	30	0	30	0	60	2	0	1	0	3
10	BCVT10	Applied Pharmacology	30	15	0	0	45	2	1	0	0	3
11	BCVT11	Cardiac Anatomy & Cardiac Physiology	45	0	0	0	45	3	0	0	0	3
12	BCVT12	Exercise ECG & Treadmill Testing	30	0	30	0	60	2	0	1	0	3
13	BCVT13	Patient Care, Ethics & Safety	30	0	0	0	30	2	0	0	0	2
14	BCVT14	Clinical Posting I (ECG/OPD)	0	0	0	90	90	0	0	0	2	2
15	BCVT15	Environmental Studies	30	0	0	0	30	2	0	0	0	2
16	BCVT16	Constitution of India & Human Rights	30	0	0	0	30	2	0	0	0	2
Total Credits			225	15	60	90	390	15	1	2	2	20

Semester III												
S. No.	Course Code	Course Title	(Hours)					Credits as per NCrF				
			L	T/C	P	J	Total	L	T	P	J	Total
17	BCVT17	Medicine Relevant to Cardiac Care	45	0	0	0	45	3	0	0	0	3
18	BCVT18	Echocardiography I (Physics & Instrumentation)	30	0	30	0	60	2	0	1	0	3
19	BCVT19	Echocardiography II (Views & Measurements)	30	0	30	0	60	2	0	1	0	3
20	BCVT20	Holter & Ambulatory BP Monitoring	15	0	30	0	45	1	0	1	0	2
21	BCVT21	Diagnostic Equipment in Cardiology & Medical Electronics	30	0	30	0	60	2	0	1	0	3
22	BCVT22	Clinical Posting II (Echo/Non-invasive Lab)	0	0	0	135	135	0	0	0	3	3
23	BCVT23	Public Health & Preventive Cardiology	30	0	0	0	30	2	0	0	0	2
24	BCVT24	Clinical Posting IIa (Non-invasive Extension)	0	0	0	45	45	0	0	0	1	1
Total Credits			180	0	120	180	480	12	0	4	4	20

Semester IV												
S. No.	Course Code	Course Title	(Hours)					Credits as per NCrF				
			L	T/C	P	J	Total	L	T	P	J	Total
25	BCVT25	Research Methods & Biostatistics	30	15	30	0	75	2	1	1	0	4
26	BCVT26	Quality Assurance, Radiation & Contrast Safety	30	0	0	0	30	2	0	0	0	2
27	BCVT27	Cardiac Catheterization I (Indications, Anatomy, Equipment)	30	0	0	0	30	2	0	0	0	2
28	BCVT28	Cardiac Catheterization II (Hemodynamics & Imaging)	30	0	30	0	60	2	0	1	0	3
29	BCVT29	Cath Lab Protocols & Sterilization	15	0	30	0	45	1	0	1	0	2
30	BCVT30	Clinical Posting III (Cath Lab Observer)	0	0	0	135	135	0	0	0	3	3
31	BCVT31	Entrepreneurship & Healthcare Innovation	30	0	0	0	30	2	0	0	0	2
32	BCVT32	Clinical Posting IIIa (Cath Lab Skills)	0	0	0	90	90	0	0	0	2	2
Total Credits			165	15	90	225	495	11	1	3	5	20

Semester V												
S. No.	Course Code	Course Title	(Hours)					Credits as per NCrF				
			L	T/C	P	J	Total	L	T	P	J	Total
33	BCVT33	Echocardiography III (Pathologies & Doppler Quantification)	30	0	30	0	60	2	0	1	0	3
34	BCVT34	Electrophysiology & Pacing Basics	30	0	0	0	30	2	0	0	0	2
35	BCVT35	Interventional Cardiology Technology (PTCA, Stents, Devices)	30	0	0	0	30	2	0	0	0	2
36	BCVT36	Advanced ECG (Arrhythmias, 12-lead Interpretation)	30	0	30	0	60	2	0	1	0	3
37	BCVT37	Hospital & Patient Relation Management	30	0	0	0	30	2	0	0	0	2
38	BCVT38	Clinical Posting IV (Cath Lab Assistant)	0	0	0	180	180	0	0	0	4	4
39	BCVT39	Quality Improvement Project I	0	15	30	0	45	0	1	1	0	2
40	BCVT40	Case Conferences & IPE Rounds	0	15	30	0	45	0	1	1	0	2
Total Credits			150	30	120	180	480	10	2	4	4	20

Semester VI												
S. No.	Course Code	Course Title	(Hours)					Credits as per NCrF				
			L	T/C	P	J	Total	L	T	P	J	Total
41	BCVT41	Cardiac Care Technology – Applied (Case Seminars)	15	15	0	0	30	1	1	0	0	2
42	BCVT42	Cardiac Care Technology – Advanced (Capstone)	0	15	90	0	105	0	1	3	0	4
43	BCVT43	Regulatory, Accreditation & Documentation	15	0	0	0	15	1	0	0	0	1
44	BCVT44	Elective: Vascular Ultrasound / Stress Echo / EP Lab	30	0	30	0	60	2	0	1	0	3
45	BCVT45	Clinical Posting V (Non-invasive + ICU)	0	0	0	180	180	0	0	0	4	4
46	BCVT46	Open Elective (Cross-disciplinary)	30	0	0	0	30	2	0	0	0	2
47	BCVT47	Simulation Bootcamp & Portfolio	0	0	0	90	90	0	0	0	2	2
48	BCVT48	Research Dissemination (Seminar/Manuscript)	0	15	30	0	45	0	1	1	0	2
Total Credits			90	45	150	270	555	6	3	5	6	20

Year IV Apprenticeship												
S. No.	Course Code	Course Title	(Hours)					Credits as per NCrF				
			L	T/C	P	J	Total	L	T	P	J	Total
49	BCVT49	Advanced Echocardiography – Apprenticeship	0	0	0	225	225	0	0	0	5	5
50	BCVT50	Cath Lab – Diagnostic & Interventional Assistance	0	0	0	315	315	0	0	0	7	7
51	BCVT51	Electrophysiology & Pacing – Apprenticeship	0	0	0	180	180	0	0	0	4	4
52	BCVT52	ICU/CCU Monitoring & Emergency Response	0	0	0	180	180	0	0	0	4	4
53	BCVT53	Quality Assurance, Radiation/Contrast Safety & POCT	0	0	0	180	180	0	0	0	4	4
54	BCVT54	Patient Communication, Ethics & Documentation	0	30	0	90	120	0	2	0	2	4
55	BCVT55	Minor Research/Practice Improvement Project	0	30	90	0	120	0	2	3	0	5
56	BCVT56	Apprenticeship Portfolio & Viva voce	0	30	60	0	90	0	2	2	0	4
58	BCCT410	Elective - German/ French/ English/ Japanese	30	0	30	0	60	2	0	1	0	3
Total Credits			30	90	180	1170	1470	2	6	6	26	40

		Grand Total	1035	195	930	2115	4275	69	13	31	47	160
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L = Lecture | T/C = Tutorial/Clinical | P = Practical | J = Journal/Fieldwork | Credits computed as per NCrF formula