

<b>First Year – Semester - I</b>						
Course Code	Course Title	L	T	P	C	Total Hours
Core 1	Anatomy and Physiology	4	-	-	4	60
Practical	Anatomy and Physiology (PRACTICALS)			2	2	60
Core 2	Pharmacology and Biochemistry	4	-	-	4	60
Practical	Pharmacology and Biochemistry (PRACTICALS)			2	2	60
Core 3	Microbiology and Pathology	4	-	-	4	60
Practical	Microbiology and Pathology (PRACTICALS)			2	2	60
Practical	Clinical Perfusion – I	-	-	6	6	180
	<b>Total</b>				<b>24</b>	540

<b>First Year – Semester - II</b>						
Course Code	Course Title	L	T	P	C	Total Hours
Core 4	Cardiology	4	-	-	4	60
Practical	Cardiology (PRACTICALS)			1	1	30
Core 5	Introduction to Perfusion Technology	4	-	-	4	60
Practical	Introduction to Perfusion Technology (PRACTICALS)			1	1	30
Core 6	Pharmacology of Cardio Vascular Drugs	4	-	-	4	60
Practical	Pharmacology of Cardio Vascular Drugs (PRACTICALS)			1	1	30
GE 01	To be chosen by the Student	3	-	-	3	45
Practical	Clinical Perfusion – II	-	-	-	6	180
	<b>Total</b>	15		3	<b>24</b>	495

<b>Second Year – Semester – III</b>						
Course Code	Course Title	L	T	P	C	Total Hours
Core 7	Cardiac Surgery	4	-	-	4	60
Practical	Cardiac Surgery (PRACTICALS)			1	1	30
Core 8	Physiology and Principles of Perfusion	4	-	-	4	60
Practical	Physiology and Principles of Perfusion (PRACTICALS)			1	1	30
Core 9	Organ Transplantation	4	-	-	4	60
Core 10	Hematology as relevant to Perfusion, Blood Transfusion and Blood Conservation	4	-	-	4	60
Practical	Clinical Perfusion – III	-	-	6	6	180
	Total				24	480

<b>Second Year – Semester – IV</b>						
Course Code	Course Title	L	T	P	C	Total Hours
Core 11	Clinical applications of Perfusion Technology	4	-	-	4	60
Practical	Clinical applications of Perfusion Technology (PRACTICALS)			2	2	60
Core 12	Mechanical Circulatory Support Devices	4	-	-	4	60
Practical	Mechanical Circulatory Support Devices (PRACTICALS)			2	2	60
Core 13	Cardiac life support	3	-	-	3	45
GE 01	To be chosen by the Student	3	-	-	3	45
PRO 01	Dissertation and viva voce	-	-	6	6	180
	Total	12	-	10	24	510