SEMESTER I (COMMON)												
CORE COURSES												
Course Code & Course		**Theory Credits (Total Hours)**	**Practical Credits (Total Hours)**	**Teaching Hours Per Week**		**Examination Scheme**					
						Theory Marks			**Practical Marks**		
				Theory/ Tutorial	**Practical**	**U/E**	**I/A**	**Total**	**U/E**	**I/A**	**Total**
AH 101	ANATOMY	2 (30)	2.5(75)	3	4	40	20	60	60	40	100
AH 102	PHYSIOLOGY	2 (30)	2.5(75)	3	4	40	20	60	60	40	100
AH 103	BIOCHEMISTRY	2 (30)	2.5(75)	3	4	40	20	60	60	40	100
AH 104	ENGLISH	3 (45)	-	3	-	60	40	100	-	-	-
ABILITY ENHANCEMENT ELECTIVE COURSE											
AEEC 105	PRINCIPLES OF NURSING	2 (30)	2.5(75)	3	4	40	20	60	60	40	100
CORE ELECTIVE COURSES											
CEC 106	COMMUNICATION SKILLS*	2 (30)	-	2	-	60	40	100	-	-	-
CEC 107	COMPUTER RELATED TO MEDICAL CARE **	1(15)	1 (30)	1	2	40	20	60	60	40	100
1 theory credit = 15 classroom &/or experiential learning hours 1 practical credit = 30 practical training hours **Note : Students have chosen all subjects for studying in Semester I**									**Total Credit Points**		**25**

SEMESTER II COMMON)												
CORE COURSES												
Course Code & Course		**Theory Credits (Total Hours)**	**Practical Credits (Total Hours)**	**Teaching Hours Per Week**		**Examination Scheme**						
						Theory Marks			**Practical Marks**			
				Theory/ Tut/ Sem	**Practical**	**U/E**	**I/A**	**Total**	**U/E**	**I/A**	**Total**	
AH 201	MICROBIOLOGY	2 (30)	2 (60)	2	4	40	20	60	60	40	100	
AH 202	PATHOLOGY	2 (30)	2 (60)	2	4	40	20	60	60	40	100	
AH 203	PHARMACOLOGY	2 (30)	2 (60)	2	4	40	20	60	60	40	100	
AH 204	COMMUNITY MEDICINE	2 (30)	2 (60)	2	4	40	20	60	60	40	100	
ABILITY ENHANCEMENT ELECTIVE COURSE												
AEEC 205	ENVIRONMENT STUDIES	3 (45)	-	3	-	60	40	100	-	-	-	
CORE ELECTIVE COURSE												
CEC 206	HOSPITAL OPERATIONAL MANAGEMENT	2 (30)	2 (60)	2	4	40	20	60	60	40	100	
OR												
CEC 207	INTRODUCTION TO QUALITY AND PATIENT SAFETY	2 (30)	2 (60)	2	4	40	20	60	60	40	100	
1 theory credit = 15 classroom &/or experiential learning hours			1 practical credit = 30 practical training hours						**Total Credit Points**			**23**

SEMESTER III

B.Sc. (Perfusion Technology)

CORE COURSE

Course Code & Course		Theory Credits (Total Hours)	Practical Credits (Total Hours)	Teaching Hours Per Week		Examination Scheme					
						Theory Marks			Practical Marks		
				Theory/ Tutorial	Practical	U/ E	I/A	Total	U/E	I/A	Total
PERT 301	APPLIED PATHALOGY	4(60)	4(120)	4	8	60	20	80	80	40	120
PERT 302	APPLIED MICROBIOLOGY	3(45)	4(120)	3	8	60	20	80	80	40	120
PERT 303	INTRODUCTION TO PERFUSIA TECHNOLOGY	3(45)	3(90)	3	6	60	20	80	80	40	120
ABILITY ENHANCEMENT ELECTIVE COURSE											
PERT/A EEC 304	BIOSTATISTICS AND RESEARCH METHODOLOGY	2 (30)		2		60	40	100			
OR											
PERT/A EEC 305	MEDICAL RECORDS MANAGEMENTS	2 (30)		2		60	40	100			
1 theory credit = 15 classroom &/or experiential learning hours			1 practical credit = 30 practical training hours						**Total Credit Points**		**23**

SEMESTER IV
(B.Sc. (Perfusion Technology)

CORE COURSE

Course Code & Course		Theory Credits (Total Hours)	Practical Credits (Total Hours)	Teaching Hours Per Week		Examination Scheme					
						Theory Marks			Practical Marks		
				Theory/Tutorial	Practical	U/E	I/A	Total	U/E	I/A	Total
PERT 401	PATIENT CARE AND BASIC NURSING	3 (45)	4(120)	3	8	60	20	80	80	40	120
PERT 402	BASICS OF PUMPS, OXYGENATORS, ALTERS AND BLOOD COMPONENTS	3 (45)	4(120)	3	8	60	20	80	80	40	120
PERT 403	BASICS OF MEDICAL DISORDERS	3 (45)	4(120)	3	8	60	20	80	80	40	120
ABILITY ENHANCEMENT ELECTIVE COURSE											
PERT/AEEC 404	ORGANIZATION BEHAVIOUR	2 (30)		2		60	40	100			
OR											
PERT/AEEC 405	PERSUIT OF INNER SELF EXCELLENCE	2 (30)		2		60	40	100			
1 theory credit = 15 classroom & /or experiential learning hours 1 practical credit = 30 practical training									**Total Credit Points**		**23**

SEMESTER V
(B.Sc. (Perfusion Technology)

Course Code & Course		Theory Credits (Total Hours)	Practical Credits (Total Hours)	Teaching Hours Per Week		Examination Scheme					
						Theory Marks			Practical Marks		
				Theory/Tutorial	Practical	U/E	I/A	Total	U/E	I/A	Total
CORE COURSE											
PERT 501	CONDUCT OF CARDIOPULMONARY BYPASS, PRIMING SOLUTIONS AND CANNULATION TECHNIQUES	3 (45)	4(120)	3	8	60	20	80	80	40	120
PERT 502	MYOCARDIAL PROTECTION AND VARIOUS D DRUGS USED IN CPB	3 (45)	4(120)	3	8	60	20	80	80	40	120
PERT 503	CARDIAC, THORACIC AND VASCULAR SURGICAL DISORDERS	3 (45)	4(120)	3	8	60	20	80	80	40	120
ABILITY ENHANCEMENT ELECTIVE COURSE											
PERT/AEEC 504	MEDICAL BIOETHICS HUMAN RIGHTS PROFESSIONAL VALUES	2 (30)	-	2		60	40	100			
OR											
PERT/AEEC 505	HUMAN RIGHTS PROFESSIONAL VALUES	2 (30)	-	2		60	40	100			
1 theory credit = 15 classroom & /or experiential learning hours			1 practical credit = 30 practical training hours						**Total Credit Points**		**23**

SEMESTER VI **(Perfusion Technology)**											
CORE COURSE											
Course Code & Course		**Theory Credits (Total Hours)**	**Practical Credits (Total Hours)**	**Teaching Hours Per Week**		**Examination Scheme**					
						Theory Marks			**Practical Marks**		
				Theory/ Tutorial	**Practical**	**U/E**	**I/A**	**Total**	**U/E**	**I/A**	**Total**
PERT 601	EFFECTS ON VARIOUS ORGANS DURING CPB AND INTRODUCTION TO IABP AND ECMO	3(45)	4(120)	2	6	60	20	80	80	40	120
PERT 602	SPECIAL SITUATIONS IN PERFUSION TECHNOLOGY	3(45)	4(120)	2	6	60	20	80	80	40	120
PERT 603	CARDIAC SUPPORT DEVICES, DHCA AND BLOOD CONSERVATION TECHNIQUES	3(45)	4(120)	2	6	60	20	80	80	40	120
ABILITY ENHANCEMENT ELECTIVE COURSE											
PERT 604	PROJECT RELATED TO PERFUSION TEACNOLOGY	2 (30)		2		60	40	100			
1 theory credit = 15 classroom & /or experiential learning hours training hours				1 practical credit = 30 practical					**Total Credit Points**		**23**