			C	ORE COURS	ES						
Course Code & Course		Theory Practical Credits Credits (Total (Total		Teaching Hours Per Week		Examina Theory Marks			ation Scheme  Practical Marks		
		(Total Hours)	Hours)	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	-	-	-
		ABI	LITY ENHAN	ICEMENT EL	ECTIVE COU	JRSE	<u>-I</u>	ı	I		1
AEEC 105	PRINCIPLES OF NURSING	2 (30)	2.5(75)	3	4	40	20	60	60	40	100
			CORE I	ELECTIVE CO	DURSES			•	1	•	
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
	ry credit = 15 classroom &/or experier  Students have chosen all subjects for	_		1 practical c	redit = 30 prac	ctical trair	ning hour	rs .	Total Cre Points	dit	25

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

# SEMESTER III B.Sc. (Perfusion Technology)

#### CORE COURSE

		Theory	Practical	Teachi	ng Hours			Examir	nation Sch	eme	
	Course Code & Course	Credits	Credits	Per Week		Т	Theory Marks			Practical Mark	
334.33 3343 4 334.30		(Total Hours)	(Total Hours)	Theory/ Tutorial	Practical	U/ E	I/A	Total	U/E	I/A	Tota
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	ENHANCEMI	ENT ELECT	IVE COURS	SE.					•
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			
theory cr	redit = 15 classroom &/or experiential	learning hours	1 p	ractical cred	lit = 30 prac	ical trai	ning hou	rs	Total Cre	edit	23

#### **SEMESTER IV**

#### (B.Sc. (Perfusion Technology)

#### CORE COURSE

			CORE	COURSE							
		Theory	Practical	Teaching	•	Examination Scheme		eme			
Course Code & Course		Credits Credits (Total (Total	Credits	Per Week		Theory Marks		Practical Marks		arks	
		Hours) Hours)		Theory/T utorial	Practic al	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
		ABILIT'	Y ENHANCEM	ENT ELECTI	VE COUR	SE					
PERT/A EEC 404	ORGANIZATION BEHAVIOUR	2 (30)		2		60	40	100			
				OR							
PERT/A EEC 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							= 30	Total Credit Points		23

## <u>SEMESTER V</u> (B.Sc. (Perfusion Technology)

	IIRSE

		Theory	Practical	Teaching	Hours			Examina	ation Scher	ne	
Course Code & Course		Credits (Total Credits		Per Week		Theory Marks			Practical Marl		rks
		Hours)	(Total Hours)	Theory/Tu torial	·	U/F	I/A	Total	U/E	I/A	Total
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
		ABILI	TY ENHANCE	MENT ELECTI	VE COURS	E		•		•	•
PERT/AE EC 504	MEDICAL BIOETHICS HUMAN RIGHTS PROFESSIONAL VALUES	2 (30)	-	2		60	40	100			
	1			OR			1	ı	1	I	l .
PERT/AE EC 505	HUMAN RIGHTS PROFESSIONAL VALUES	2 (30)	-	2		60	40	100			
	1 theory credit = 15 classroom & /or o		g hours ours	1 practica	I credit = 30	practical t	training	1	Total Cre	dit Points	23

### <u>SEMESTER VI</u> (Perfusion Technology)

#### CORE COURSE

	CORE COURSE										
Course Code & Course		Theory	Credits Credits Per W		Teaching Hours Per Week		Examination Scheme				
		Credits					Theory Marks			Practical Marks	
		(Total (Total Hours) Hours)		Theory/ Tutorial	Practi cal	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 CO	URSE									
PERT 604	PROJECT RELATED TO PERFUSION TEACNOLOGY	2 (30)		2		60	40	100			
_	1 theory credit = 15 classroom & /or experiential learning hours  1 practical credit = 30 practical  1 prints  1 prints							23			