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1.3.1. List of Courses that integrate Cross-Cutting issues

Conici	Duo auc :	Name of the		Courses	Cross Cutting
Serial No.	Programme	Department	No	Content of the course	
No.	name	(Subject)			
1			1	Basic Sciences related to the subject	
2			2	Practice of Clinical Immunology& Rheumatology	
		Clinical Immunology &	3	Practice of Clinical Immunology& Rheumatology	
3		Rheumatology		including therapeutics, allied specialities	
			4	Recent Advances in Clinical Immunology &	
4			Rheumatology		
5			1	Basic Gastroenterology Sciences	
6		Gastroenterology	2	Clinical Gastroenterology	
7		Gastroenterology	3	Clinical and investigative Gastroenterology	
8			4	Recent advances in Gastroenterology	
9			1	Basic Ped Gastroenterology Sciences	
10		Pediatric	2	Clinical Ped Gastroenterology	
11		Gastroenterology	3	Clinical and investigative Ped Gastroenterology	
12			4	Recent advances in Ped Gastroenterology	
13			1	Basic and applied haematology	Gender equality
14		Clinical Homotology	2	Laboratory Haematology	
15		Clinical Hematology	3	Clinical Haematology	Human Values Professional Ethics Environment and Sustainability
16			4	Recent Advances in Haematology	
17	DM		1	Basic Genetics	
18		Clinical Hematology Medical Genetics	2	Clinical Genetics	
19		Medical Genetics	3	Applied and Laboratory Genetics	
20		Wedical deficies	4	Recent evidences in Medical Genetics	
21			1	Basic medical sciences related to CCM	
22			2	Clinical-etiology, Diagnosis, Treatment of diseases related to CCM	
23		Critical Care Medicine	3	Procedures, Interventions, Ethics, Research Methods	
24			4	Recent advances	
25			1	Basic Science of Endocrinology	
26			2	Clinical Endocrinology and diagnosis of endocrinology and metabolism disorder	
27		Endocrinology	3	Therapeutic aspect of endocrinology and metabolism and laboratory technology	Human Values Professional Ethics Environment and
28			4	Laboratory and Experimental Endocrinology	100
29			1	Basic Sciences as applied to Cardiology	
30			2	Clinical Cardiology	
31		Cardiology	3	Laboratory Testing	
32			4	Recent advances	(C) (B) 1
33			1	Basic Sciences of Neurology	P IN THE PARTY OF
34			2	Clinical Neurology -1	
35	DM	Neurology	3	Clinical Neurology -2	
36		BE CHENT	4	Recent Advances in Neurology	



37			1	Basic Sciences in Nephrology	
38			2	Clinical Nephrology	1
39		Nephrology	3	Dialysis, Transplantation, Nephro-urology	
40			4	Recent advances in Nephrology	
41			1	Basic sciences as applied to pulmonary medicine	Gender equality
42			2	Clinical pulmonary medicine -1	Human Values
43		Pulmonary Medicine	3	Clinical pulmonary medicine -2	Professional Ethics
44			4	Recent advances in pulmonary medicine and lung transplantation	Professional Ethics Environment and Sustainability Gender equality Human Values Professional Ethics Environment and Sustainability Gender equality Human Values Professional Ethics Environment and
45			1	Basic sciences as applied to neonatology and perinatology	
46		Neonatology	2	Core neonatology	
47			3	Neonatology and allied specialities	1
48			4	Recent advances in neonatology	1
49			1	Basic sciences as applied to surgical gastroenterology	
50		Surgical	2	Clinical and operative surgical gastroenterology	
51		Gastroenterology	3	Surgical gastroenterology including transplantation and minimal access surgery	-
52			4	Recent advances in surgical gastroenterology	
53			1	Basic science of endocrine and breast surgery	-
54			2	Clinical endocrine surgery Part 1	1
55		Endocrine Surgery	3	Clinical endocrine surgery Part II	Human Values Professional Ethics Environment and Sustainability Gender equality Human Values Professional Ethics Environment and Sustainability Gender equality Human Values Professional Ethics Environment and Sustainability
			4	Recent advances in Endocrine and breast	
56				surgery	
57	MCh		1	Cardiac Surgery (thoracic surgery, vascular surgery)	
58			2	Adult Cardiac Surgery	Sustainability
59		Cardio-vascular &		Critical Care	-
60		Thoracic Surgery	3 Criti 4 Card circu	Cardiovascular engineering, transplant and circulatory support, recent advances in cardiovascular and thoracic surgery	
61			1	Basic sciences of central nervous system	
62			2	Applied clinical neurosurgery	1
63		Neurosurgery	3	Advanced clinical and operative neurosurgery	
64			4	Recent advances in neurosurgery	1
65			1	Basic sciences in Paediatric surgery, Trauma and Transplantation	-
66		Pediatric Surgery	2	Regional paediatric surgery, paediatric onco surgery	100
67	-	J- ,	3	Regional paediatric surgey	
		e de la companya de l	4	Recent advances in Paediatric Surgery	
68		BALL I	1	General priciples and basic sciences relevant to	Gender equality
69	Mch	Plastic &	2	plastic and reconstructive surgery Clinical Part 1	
70		Reconstructive	Maio Na		Professional Ethics
71		Surgery	3	Clinical Part 2 Recent advances in plastic and reconstructive	
72				surgery	MAN



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73			1	Basic sciences of urinary tract system	
74			2	Applied clinical urology	
75		Urology	3	Advanced clinical and operative urology	
76			4	Recent advances in urology	
77			1	Basic sciences as applied to Anaesthesiology	
78			2	Practice of Anaesthesiology	
79		Anesthesiology	3	Anaesthesia in relation to subspecialities/super specialities	
80			4	Intensive Care Medicine, Pain Medicine, Recent advances	
81			1	Basic Medical Sciences, General Emergency Medicine, Disaster preparedness	
82			2	Infectious diseases, Critical Care , Paediatrics, Toxicology	
83		Emergency Medicine	3	Respiratory Medicine ,Emergencies, Surgical procedures	
	MD		4	Nephrology, Endocrinology, Haematology,	
84				Occupational Diseases, Recent advances	Gender equality Human Values
85			1	Nuclear Physics	• •
86			2	Diagnostic Nuclear Medicine	Professional Ethics
87		Nuclear Medicine	3	Therapeutic uses of radionucleotide	Environment and
88			4	Recent advances in Nuclear Medicine	Sustainability
89			1	General Microbiology and Immunology	
			2	Clinical/Systemic Microbiology I	
90		Microbiology	3	Clinical/Systemic Microbiology II	
92			4	Applied Microbiology & Recent Advances	
93			1	Principles of radiotherapy allied specialities	
90			2	Related specialities: Surgical oncology and	
94		Radiotherapy		medical oncology	
95			3	Clinical management of Tumours	
96			4	Recent advances and special topics	
97			1	Basic sciences including general pathology, immunopathology, genetics clinical pathology, tropical pathology and applied microbiology	
98		Pathology	2	Systemic pathology including surgical pathology and cytopathology	
99	MD		3	Haematology including transfusion medicine and clinical biochemistry	
100			4	Recent advances in pathology	
101			1	Basic sciences (immunology, medical genetics, haemostasis, physiology of formed elements of blood)	
		Transfusion Medicine	2	Immuno haematology/blood group	Gender equality
102	3	Transfusion Medicine	3	serology/compatibility testing Blood collection/Blood centre/ Component	Human Values Professional Ethics
103			4	Testing Clinical Transfusion Service	Environment and
104	4		4	Cililical Hallslusion Service	Sustainability
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105			1	Basic sciences related to Radiology	
106			2	Chest, CVS, CNS, Eye, ENT, Musculoskeletal, Paediatric and Breast	
107		Radiodiagnosis	3	Abdominal imaging, GU, Endocrinology, Obstetric and Gynaecology, Interventional radiology	
108			4	Recent advances, Nuclear Medicine , radiology related to clinical specialist	
109			1	Basic sciences related to Ophthalmology ,Optics and Refraction	Gender equality Human Values
110			2	Clinical Ophthalmology	Professional Ethics
111	MS	Ophthalmology	3	Systemic diseases in relation to Ophthalmology	Environment and
112	MS Ophthalmology	4	Recent advances in Ophthalmology and Community Ophthalmology	Sustainability	
113			1	Basic sciences pertaining to intensive care medicine including pharmacology	Gender equality Human Values
114		Intensive Care Medicine	2	Clinical-aetiology, Diagnosis, T; Recent advances treatment of diseases related to intensive care	Professional Ethics Environment and Sustainability
115			3	Clinical and recent advances	
116	PDAF		1	Basic sciences as related to Cardiac Anaesthesia	
	1 5/11	Cardio-vascular &	2	Clinical aspects as related to cardiac anaesthesia	
117		Thoracic Anaesthesia	3	Recent advances in Cardiac Anaesthesia	
118			1		
119			_	Basic sciences as related to Organ Transplant Anaesthesia	
120		Organ Transplant Anaesthesia	2	Clinical sciences related to organ transplant anaesthesia	Gender equality
121			3	Recent advances in organ transplant anaesthesia	Human Values
122		Neuro Anaesthesia and Neuro Critical Care	1	Basic sciences as related to Neuro anaesthesia	Professional Ethics
123			2	Clinical aspects of Neuro anaesthesia	Environment and
124			3	Recent advances in Neuro anaesthesia	Sustainability
125	PDAF		1	Basic sciences as related to pain and palliative care	
126		Pain and Palliative Care Medicine	2	Clinical sciences as related to pain and palliative care	
127			3	Recent advances in pain and palliative care	
128		Apheresis Technology & Blood Component	1	Basic sciences such as immunology, genetics pertinent to blood components, apheresis, instrumentation, automation, computerization and record, legal, ethical and administrative aspect	The state of the s
129		Therapy	2	Application of blood component in clinical practice, donor apheresis and therapeutic plasma exchange, good practice, recent advances	
130			1	Basic sciences as applied to breast	5 P. T. P.
131		Breast Surgery	2	Clinical mastology	
100 Year of 1		The second second	707707	Basic sciences related to genetics	



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		Clinical Molecular			Gender equality
133		Genetics & Genomics	2	Applied genetics and recent advances	Human Values Professional Ethics
134	PDCC	Critical Care Medicine	1	Basic sciences	Environment and
135			2	Clinical sciences	Sustainability
136		Correlative Imaging	1	Basic sciences experiment	
137			2	Clinical experiments	
138			1	Basic sciences related to radionuclide therapy	
139		Radionuclide Therapy	2	Therapeutic and recent advances in radionuclide therapy	
140		Resuscitative	1	Basic sciences of emergency medicine	
				Systemic medicne and recent advances of all	
141			2	organ systems	
142		Homato Oncology	1	Basic haemato-oncology	
143		Tiernato-Officology	2	Applied and recent advances in haemato- oncology	
144			1	Basic Paediatric Haematology	
145		Pediatric Hematology	2	Applied and recent advances related to paediatric haematology	
146		Homesta Dathalami	1	Basic haemato-pathology	
147		Hemato-Pathology	2	Applied haemato pathology	
				General aspects of infectious diseases and basic	
148		Infectious Disease	1	sciences	
149			2	Recent advances in diagnosis and management of infectious disease	
150		Maternal and Fetal	1	Basic sciences as applied to Maternal and Foetal Medicine	
151		Medicine	2	Applied sciences and recent advances in Maternal and Foetal Medicine	
152			1	Basic aspects of the subject Neonatology	
153		Neonatology	2	Recent advances in Neonatology	
154		No. of Obelea	1	Basic sciences: Principles and practices	
155		Neuro Otology	2	Recent advances in neuro-otology	
156		Neuro-	1	Basic sciences: Refraction and optics	
157		Ophthalmology	2	Systemic diseases and recent advances	
158		Pediatric	1	Basic sciences of paediatrics and endocrinology	
159		Endocrinology	2	Clinical aspect, Diagnosis, Recent advances	Gender equality
160		Pediatric	1	Basic Sciences	Human Values
161		Gastroenterology	2	Clinical Sciences and recent advances	Professional Ethics Environment and
162	PDCC	Pediatric Clinical	1	Basic sciences related to clinical immunology and rheumatology	Sustainability
102		Immunology and	1	Practice of clinical immunology and	
163		niieuiiiatoiogy	2	rheumatology	
164		Maternal and Fetal Medicine Neonatology Neuro Otology Neuro- Ophthalmology Pediatric Endocrinology Pediatric Gastroenterology Pediatric Clinical	1	Basic sciences of renal pathology	mit 1 s igus
165		Reliai Facilology	2	Applied and recent advances in renal disorders	
166		Hepato-pathology	1	Basic sciences of hepatobiliary pathology and liver transplant pathology	

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167			2	Applied and recent advances in hepatobiliary disorders	
168		Class Mandisis	1	Basic aspect of Sleep Medicine	
169		Sleep Medicine	2	Applied and recent advances in Sleep Medicine	
170			1	Basic Sciences	
171		Gastro-radiology	2	Clinical Sciences	
172			1	Basic Sciences	
173		Neuro-radiology	2	Clinical Sciences	
174			1	Basic of vascular system, pharmacology	
		Vascular radiology		,	
175	PDCC		2	Intervention of vascular system	
176			1	Biochemistry, Genetics, Molecular biology, Basic Human biology, Practical concepts	
177		Medical Bio-	2	Cell & stem cell biology, Microbiology, Bioanalytic research techniques,	
178		technology (Hematology)	3	Genetic engineering, Diagnostic and therapeutic of human diseases, Genomics, proteomics, research methodology	
179			4	Presentation of research project, Dissertation	
180	M.Sc.		1	Introduction to medical genetics, cytogenetics, chromosomal disorders, principles of genetic counselling	Gender equality
404				Common presentations in genetics, molecular	Human Values Professional Ethics
181		Genetic Counselling	2	genetics, genetic counselling,	Environment and
182			3	Genetic disorders, pre-natal genetics and fetal medicine	Sustainability
183			4	Genetic disorder, genomic medicine and research, preventive genetics, dissertation	
184		Medical Laboratory	1	Basic microbiology	
185		Technology (Medical	2	Basic virology	
186		Virology)	3	Immunology and cellular structure	
187			4	Virology techniques, Epidemiology, Biostatistics	
188			1	Introduction to healthcare delivery system, basic computer and information sciences, patient safety, communication, soft skill	
189		Medical Laboratory Technology-	2	Medical terminology, record keeping, medical law, ethics,	Gender equality
190	B.Sc.	Transfusion Medicine Technology (Earlier it	3	Pathology, microbiology, research methodology, biostatistics	Human Values Professional Ethics Environment and
191		was MSc)	4	Advance research methodology	Sustainability
192			5	Hemotherapy, blood & components, blood bank equipment, quality control	
193			6	Apheresis, recent advances	D all a least

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194			1	Introduction to molecular medicine, cell & developmental biology, immune response in health and disease, instrumentation, analytical techniques	Gender equality Human Values
195		Molecular Medicine & Biotechnology	2	Omics approaches in molecular medicine, research methodology, ethics, biosafety, IPR, recombinant DNA technology	Professional Ethics Environment and Sustainability
106			2	Molecular basis of disease, diagnostic and	
196 197			<u>3</u> 4	therapeutics, regenerative medicine, Translation research approaches, dissertation	
198	M.Sc.		1	Fundamentals of radiation physics, Human anatomy, Human physiology, General principles of hospital practice and care	
199		Nuclear Medicine Technology (Nuclear	2	Radio-isotope application, radiation safety, radiation biology, fundamentals of biostatistics and computer application	
200		Medicine)	3	Nuclear medicine imaging, principles of radiological protection, PET cyclotron and other instrumentation	Gender equality
201			4	Principles of radio pharmacy, recent advances, dissertation	Professional Ethics
202			1	Fundamentals of radiation physics, basic radio- chemistry, radio-pharmacy, nuclear medicine instrumentation and imaging	Environment and Sustainability
203	M.Sc.	Radio pharmacy and Molecular Imaging	2	Isotope production, basics of human biology and laboratory animals in biomedical research, PET radiochemistry	
204		(Nuclear Medicine)	3	Nuclear pharmacy-design and regulation, clinical application of radio pharmaceuticals, bioinformatics, IPR, biostatistics	Human Values Professional Ethics Environment and Sustainability Gender equality
205			4	Advancement in radio pharmacy, principles of molecular targets and imaging, dissertation	
206			1	Anatomy I, physiology I, biochemistry, health care delivery system, basic computer and information science, English communication, soft skills, yoga, community orientation and clinical visits	
207			2	Anatomy II, physiology II, psychology, basic principles of biomechanics, medical terminology and record keeping	Condan arvelitu
208	B.Sc.	Bachelor of Physiotherapy (B.P.T)	3	pathology, microbiology, pharmacology, biomechanics, kinesiology, exercise therapy, therapeutics massage, quality, patient safety	Human Values Professional Ethics Environment and
209			4	Exercise therapy, biophysics, electrotherapy, medical law and ethics	Sustainability
210			5	Clinical orthopaedics, traumatology, general surgery, burn, plastic surgery, OBG, Paediatrics, Psychiatric, community medicine, Diagnostic imaging	
211			6	Physiotherapy in orthopaedics and sports, clinical neurology and neurosurgery, professionalism, values	MP



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212			7	Physiotherapy in neurology and psychosomatic disorders, biostatistics, research methodology, health promotion, fitness- clinical cardiovascular and pulmonary	
213			8	Physiotherapy in cardiovascular, pulmonary, intensive care, community physiotherapy and rehabilitation, evidence based physiotherapy, research project, teaching skills	
214			1	Anatomy I, physiology I, biochemistry, health care delivery system, basic computer and information science, English communication, soft skills, yoga, community orientation and clinical visits	
215		Operation Theter and	2	Anatomy II, physiology II, psychology, medical terminology and record keeping, medical law, ethics, professionalism, OT and anaesthesia technology	
216	B.Sc.	Anesthesia Technology	3	Clinical microbiology, Medicine and introduction relevant to OT and anaesthesia technology, principles of anaesthesia	
217			4	Biostatistics, clinical pharmacology, basic techniques of anaesthesia	
218			5	Research methodology, basics of surgical procedures, CSSD procedures, advance anaesthesia technique, basic intensive care	Gender equality
219			6	Advance OT and anaesthesia technology, specialized surgery, including robotics, minimal invasive surgery	Professional Ethics Environment and
220			1	Anatomy I, physiology I, biochemistry, health care delivery system, basic computer and information science, English communication, soft skills, yoga, community orientation and clinical visits	Human Values Professional Ethics
221		Medical Radiology	2	Anatomy II, physiology II, medical terminology and record keeping, medical law, ethics, professionalism, conventional radiography and equipment, physics of imaging equipment	
222		and Imaging Technology (Radio- diagnosis)	3	Pathology, microbiology, clinical radiography, radiographic and image processing, research methodology and biostatistics	
223			4	Clinical radiography II, quality control, radiation safety, regulatory requirements	
224			5	Physics of new imaging, techniques including patient care, hospital practice and care of patient, contrast and special radiography	
225			6	Physics of advance imaging technology, AERB guidelines, cross-sectional anatomy and physiology, advance imaging technology	

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226			1	Basic computer and information science, introduction to health care delivery, community orientation, quality and patient safety, environmental science, communication, soft skills, anatomy I, physiology I				
227			2	Anatomy II, Physiology II, medical sociology, medical law and ethics, professionalism and values, medical terminology and record keeping, clinical biochemistry				
228		Medical Laboratory Technology (Haematology)	3	Biostatistics and research, general pathology, microbiology, applied clinical biochemistry, biochemical metabolism, transfusion and blood banking				
229			4	Systematic bacteriology and virology, pathology, immunology, serology, applied clinical biochemistry				
230		c.				5	medical mycology, parasitology, entomology, applied haematology, histopathology, cytopathology, genetic and cytogenetic techniques	
231	B.Sc.		6	Laboratory automation and quality control, advance haematology and immunopathology, molecular genetic techniques	Gender equality Human Values Professional Ethics			
232			1	Basic computer and information science, introduction to health care delivery, community orientation, quality and patient safety, environmental science, communication, soft skills, anatomy I, physiology I	Environment and Sustainability			
233			2	Anatomy II, Physiology II, medical sociology, medical law and ethics, professionalism and values, medical terminology and record keeping, laboratory technology related to perfusion technology				
234		Perfusion Technology	3	General pathology, microbiology, applied haematology, biophysics, research methodology and biostatistics I				
235			4	research methodology and biostatistics II, perfusion techniques and technology, medicine and clinical application				
236			5	Paediatric perfusion, neuropsychological assessment, cardiovascular perfusion				
237			6	Mechanical circulatory support, perfusion for heart and lung transplantation	-30			
238		Dialysis Therapy	1	Basic computer and information science, introduction to health care delivery, community orientation, quality and patient safety, environmental science, communication, soft skills, anatomy I, physiology I				
239		Technology	2	Anatomy II, Physiology II, medical sociology, medical law and ethics, professionalism and values, medical terminology and record keeping,	upn			



				laboratory technology related to dialysis technology	
240			3	General pathology, microbiology, applied haematology, biophysics, research methodology and biostatistics I	
241			4	research methodology and biostatistics II, dialysis techniques and technology, medicine and clinical application	
242	B.Sc.		haematology, biophysics, research methodology and biostatistics I research methodology and biostatistics II, dialysis techniques and technology, medicine and clinical application Paediatric dialysis, neuropsychological sasessment, cardiovascular perfusion Mechanical circulatory support, perfusion for heart and lung transplantation Basic computer and information science, introduction to health care delivery, community orientation, quality and patient safety, environmental science, communication, soft skills, anatomy I, physiology I, Radiation quantity- units and measurements Medical terminology, record keeping, medical law, ethics, professionalism, values, oncology science, radiotherapy techniques, basic radiation physics, Pathology, microbiology, oncology science II, radiotherapy equipment I, research methodology Patient care, radiotherapy equipment II, quality assurance, basic radiotherapy physics, Radiation safety, radio biology, biological effects of radiation, MOULD room, special RT techniques, recent advances Radiographic anatomy, Imaging techniques in RT planning, RT treatment delivery and operational issues Applied anatomy, physiology, sociology,		
243	B.3C.		6	heart and lung transplantation	Environment and Sustainability Sustainability Sustainability And a sustainability Sustainability
244			1	introduction to health care delivery, community orientation, quality and patient safety, environmental science, communication, soft skills, anatomy I, physiology I, Radiation	
245				Medical terminology, record keeping, medical law, ethics, professionalism, values, oncology science, radiotherapy techniques, basic radiation	
246		Radiotherapy Technology		Pathology, microbiology, oncology science II, radiotherapy equipment I, research	
247			4	1	
248			5	Radiation safety, radio biology, biological effects of radiation, MOULD room, special RT	
249			6	planning, RT treatment delivery and operational	
250			1	Applied anatomy, physiology, sociology, psychology, communicative English	
251			2	Applied biochemistry, nutrition, dietetics, nursing foundation, informatics and technology	
252			3	Applied microbiology, infection control, pharmacology, pathology I, adult health nursing I, BCLS	- 30
253	B.Sc.	Nursing	4	Pharmacology II, Pathology II, Adult health nursing II, genetics, professionalism, ethics, palliative care, fundamentals of prescribing	Gender equality Human Values Professional Ethics
254	J.JC.		5	Child health nursing I, mental health nursing I, community health, nursing education, forensic nursing, Indian laws	Environment and Sustainability
255			6	Child health nursing I, mental health nursing I, Nursing management, leadership, midwifery, OBG nursing I	



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		Community nursing II, midwifery II, OBG II,
256	7	nursing research and statistics
257	8	Intensive practical/ residency posting

