

1.3.1. List of Courses that integrate Cross-Cutting issues

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

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

74		2	Applied clinical urology	
75		3	Advanced clinical and operative urology	
76		4	Recent advances in urology	
77	Anaesthesiology	1	Basic sciences as applied to Anaesthesiology	Gender equality Human Values Professional Ethics Environment and Sustainability
78		2	Practice of Anaesthesiology	
79		3	Anaesthesia in relation to subspecialities/superspecialities	
80		4	Intensive Care Medicine,Pain Medicine, Recent advances	
81	Emergency Medicine	1	Basic Medical Sciences, General Emergency Medicine, Disaster preparedness	
82		2	Infectious diseases, Critical Care,Paediatrics, Toxicology	
83		3	Respiratory Medicine,Emergencies, Surgical procedures	
84		4	Nephrology,Endocrinology, Haematology,Occupational Diseases, Recent advances	
85	Nuclear Medicine	1	Nuclear Physics	
86		2	Diagnostic Nuclear Medicine	
87		3	Therapeutic uses of radionucleotide	
88		4	Recent advances in Nuclear Medicine	
89	Microbiology	1	General Microbiology and Immunology	
90		2	Clinical/Systemic Microbiology I	
91		3	Clinical/Systemic Microbiology II	
92		4	Applied Microbiology & Recent Advances	
93	Radiotherapy	1	Principles of radiotherapy allied specialities	
94		2	Related specialities: Surgical oncology and medical oncology	
95		3	Clinical management of Tumours	
96		4	Recent advances and special topics	
97	Pathology	1	Basic sciences including general pathology,immunopathology, genetics clinical pathology,tropical pathology and applied microbiology	
98		2	Systemic pathology including surgical pathology and cytopathology	
99		3	Haematology including transfusion medicine and clinical biochemistry	
100		4	Recent advances in pathology	
101	Transfusion Medicine	1	Basic sciences (immunology,medical genetics,haemostasis,physiology of formed elements of blood)	Gender equality Human Values Professional Ethics Environment and Sustainability
102		2	Immunohaematology/blood group serology/compatibility testing	
103		3	Blood collection/Blood centre/ Component Testing	
104		4	Clinical Transfusion Service	

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105			1	Basic sciences related to Radiology			
106		Radiodiagnosis	2	Chest, CVS, CNS, Eye, ENT, Musculoskeletal, Paediatric and Breast			
107			3	Abdominal imaging, GU, Endocrinology, Obstetric and Gynaecology, Interventional radiology			
108			4	Recent advances, Nuclear Medicine, radiology related to clinical specialist			
109	MS		Ophthalmology	1	Basic sciences related to Ophthalmology, Optics and Refraction	Gender equality Human Values Professional Ethics Environment and Sustainability	
110				2	Clinical Ophthalmology		
111				3	Systemic diseases in relation to Ophthalmology		
112				4	Recent advances in Ophthalmology and Community Ophthalmology		
113	PDAF	Intensive Care Medicine	1	Basic sciences pertaining to intensive care medicine including pharmacology	Gender equality Human Values Professional Ethics Environment and Sustainability		
114				2		Clinical-aetiology, Diagnosis, T; Recent advances treatment of diseases related to intensive care	
115			3	Clinical and recent advances			
116		Cardio-vascular & Thoracic Anaesthesia	1	Basic sciences as related to Cardiac Anaesthesia		Gender equality Human Values Professional Ethics Environment and Sustainability	
117			2	Clinical aspects as related to cardiac anaesthesia			
118			3	Recent advances in Cardiac Anaesthesia			
119	Organ Transplant Anaesthesia	1	Basic sciences as related to Organ Transplant Anaesthesia				
120			2	Clinical sciences related to organ transplant anaesthesia			
121			3	Recent advances in organ transplant anaesthesia			
122	PDAF	Neuro Anaesthesia and Neuro Critical Care	1	Basic sciences as related to Neuroanaesthesia	Gender equality Human Values Professional Ethics Environment and Sustainability		
123				2			Clinical aspects of Neuroanaesthesia
124				3			Recent advances in Neuroanaesthesia
125	PDAF	Pain and Palliative Care Medicine	1	Basic sciences as related to pain and palliative care	Gender equality Human Values Professional Ethics Environment and Sustainability		
126				2		Clinical sciences as related to pain and palliative care	
127				3		Recent advances in pain and palliative care	
128		Apheresis Technology & Blood Component Therapy	1	Basic sciences such as immunology, genetics pertinent to blood components, apheresis, instrumentation, automation, computerization and record, legal, ethical and administrative aspect			
129				2		Application of blood component in clinical practice, donor apheresis and therapeutic plasma exchange, good practice, recent advances	
130		Breast Surgery	1	Basic sciences as applied to breast			
131				2		Clinical mastology	
132		Clinical Molecular Genetics & Genomics	1	Basic sciences related to genetics			
133				2		Applied genetics and recent advances	

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134	PDCC	Critical Care Medicine	1	Basic sciences	Gender equality Human Values Professional Ethics Environment and Sustainability
135			2	Clinical sciences	
136		Correlative Imaging	1	Basic sciences experiment	
137			2	Clinical experiments	
138		Radionuclide Therapy	1	Basic sciences related to radionuclide therapy	
139			2	Therapeutic and recent advances in radionuclide therapy	
140		Resuscitative Emergency Medicine	1	Basic sciences of emergency medicine	
141			2	Systemic medicine and recent advances of all organ systems	
142		Hemato-Oncology	1	Basic haemato-oncology	
143			2	Applied and recent advances in haemato-oncology	
144		Paediatric Haematology	1	Basic Paediatric Haematology	
145			2	Applied and recent advances related to paediatric haematology	
146		Hemato-Pathology	1	Basic haemato-pathology	
147			2	Applied haematopathology	
148		Infectious Disease	1	General aspects of infectious diseases and basic sciences	
149			2	Recent advances in diagnosis and management of infectious disease	
150		Maternal and Fetal Medicine	1	Basic sciences as applied to Maternal and Foetal Medicine	
151			2	Applied sciences and recent advances in Maternal and Foetal Medicine	
152	Neonatology	1	Basic aspects of the subject Neonatology		
153		2	Recent advances in Neonatology		
154	Neuro Otology	1	Basic sciences: Principles and practices		
155		2	Recent advances in neuro-otology		
156	Neuro- Ophthalmology	1	Basic sciences: Refraction and optics		
157		2	Systemic diseases and recent advances		
158	Pediatric Endocrinology	1	Basic sciences of paediatrics and endocrinology		
159		2	Clinical aspect, Diagnosis, Recent advances		
160	Pediatric Gastroenterology	1	Basic Sciences		
161		2	Clinical Sciences and recent advances		
162	PDCC	Pediatric Clinical Immunology and Rheumatology	1	Basic sciences related to clinical immunology and rheumatology	Gender equality Human Values Professional Ethics Environment and Sustainability
163			2	Practice of clinical immunology and rheumatology	
164	Renal Pathology	1	Basic sciences of renal pathology		
165		2	Applied and recent advances in renal disorders		
166	Hepato-pathology	1	Basic sciences of hepatobiliary pathology and liver transplant pathology		
167		2	Applied and recent advances in hepatobiliary disorders		
168	Sleep Medicine	1	Basic aspect of Sleep Medicine		


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

194	M.Sc.	Molecular Medicine & Biotechnology	1	Introduction to molecular medicine, cell & developmental biology, immune response in health and disease, instrumentation, analytical techniques	Gender equality Human Values Professional Ethics Environment and Sustainability
195			2	Omics approaches in molecular medicine, research methodology, ethics, biosafety, IPR, recombinant DNA technology	
196			3	Molecular basis of disease, diagnostic and therapeutics, regenerative medicine,	
197			4	Translation research approaches, dissertation	
198	M.Sc.	Nuclear Medicine Technology (Nuclear Medicine)	1	Fundamentals of radiation physics, Human anatomy, Human physiology, General principles of hospital practice and care	Gender equality Human Values Professional Ethics Environment and Sustainability
199			2	Radio-isotope application, radiation safety, radiation biology, fundamentals of biostatistics and computer application	
200			3	Nuclear medicine imaging, principles of radiological protection, PET cyclotron and other instrumentation	
201			4	Principles of radio pharmacy, recent advances, dissertation	
202	M.Sc.	Radio pharmacy and Molecular Imaging (Nuclear Medicine)	1	Fundamentals of radiation physics, basic radio-chemistry, radio-pharmacy, nuclear medicine instrumentation and imaging	Gender equality Human Values Professional Ethics Environment and Sustainability
203			2	Isotope production, basics of human biology and laboratory animals in biomedical research, PET radiochemistry	
204			3	Nuclear pharmacy-design and regulation, clinical application of radiopharmaceuticals, bioinformatics, IPR, biostatistics	
205			4	Advancement in radiopharmacy, principles of molecular targets and imaging, dissertation	
206	B.Sc.	Bachelor of Physiotherapy (B.P.T)	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	Gender equality Human Values Professional Ethics Environment and Sustainability
207			2	Anatomy II, physiology II, psychology, basic principles of biomechanics, medical terminology and record keeping	
208			3	pathology, microbiology, pharmacology, biomechanics, kinesiology, exercise therapy, therapeutics massage, quality, patient safety	
209			4	Exercise therapy, biophysics, electrotherapy, medical law and ethics	
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	

212	B.Sc.		7	Physiotherapy in neurology and psychosomatic disorders, biostatistics, research methodology, health promotion, fitness- clinical cardiovascular and pulmonary	Gender equality Human Values Professional Ethics Environment and Sustainability
213			8	Physiotherapy in cardiovascular, pulmonary, intensive care, community physiotherapy and rehabilitation, evidence based physiotherapy, research project, teaching skills	
214		Operation Theater and Anesthesia Technology	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			2	Anatomy II, physiology II, psychology, medical terminology and record keeping, medical law, ethics, professionalism, OT and anaesthesia technology	
216			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	
219			6	Advance OT and anaesthesia technology, specialized surgery, including robotics, minimal invasive surgery	
220			Medical Radiology and Imaging Technology (Radio-diagnosis)	1	
221		2		Anatomy II, physiology II, medical terminology and record keeping, medical law, ethics, professionalism, conventional radiography and equipment, physics of imaging equipment	
222		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	



226	B.Sc.	Medical Laboratory Technology (Haematology)	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	Gender equality Human Values Professional Ethics Environment and Sustainability
227			2	Anatomy II, Physiology II, medical sociology, medical law and ethics, professionalism and values, medical terminology and record keeping, clinical biochemistry	
228			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			5	medical mycology, parasitology, entomology, applied haematology, histopathology, cytopathology, genetic and cytogenetic techniques	
231			6	Laboratory automation and quality control, advance haematology and immunopathology, molecular genetic techniques	
232	B.Sc.	Perfusion Technology	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	
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			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	
238	B.Sc.	Dialysis Therapy Technology	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			2	Anatomy II, Physiology II, medical sociology, medical law and ethics, professionalism and values, medical terminology and record keeping, laboratory technology related to dialysis	

			technology		
240	B.Sc.		General pathology, microbiology, applied haematology, biophysics, research methodology and biostatistics I	Gender equality Human Values Professional Ethics Environment and Sustainability	
241		4	research methodology and biostatistics II, dialysis techniques and technology, medicine and clinical application		
242		5	Paediatric dialysis, neuropsychological assessment, cardiovascular perfusion		
243		6	Mechanical circulatory support, perfusion for heart and lung transplantation		
244		<u>Radiotherapy Technology</u>	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, Radiation quantity-units and measurements
245			2		Medical terminology, record keeping, medical law, ethics, professionalism, values, oncology science, radiotherapy techniques, basic radiation physics,
246	3		Pathology, microbiology, oncology science II, radiotherapy equipment I, research methodology		
247	4		Patient care, radiotherapy equipment II, quality assurance, basic radiotherapy physics,		
248	5		Radiation safety, radio biology, biological effects of radiation, MOULD room, special RT techniques, recent advances		
249	6		Radiographic anatomy, Imaging techniques in RT planning, RT treatment delivery and operational issues		
250	B.Sc.	<u>Nursing</u>  Lt Col Varun Bajpai VSM Executive Registrar SGPGIMS, Lucknow	1	Applied anatomy, physiology, sociology, psychology, communicative English	Gender equality Human Values Professional Ethics Environment and Sustainability
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	
253			4	Pharmacology II, Pathology II, Adult health nursing II, genetics, professionalism, ethics, palliative care, fundamentals of prescribing	
254			5	Child health nursing I, mental health nursing I, community health, nursing education, forensic nursing, Indian laws	
255			6	Child health nursing I, mental health nursing I, Nursing management, leadership, midwifery, OBG nursing I	
256			7	Community nursing II, midwifery II, OBG II, nursing research and statistics	



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