

MPHIL ROAD MAP ANATOMY

Semester 1

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre-requisite Course Code	Course Code	Course Title	Credit Hours
1	Level 6 (MBBS/ BDS)	MED 701	Research Methodology	3+0
2		MED 712	Medical Biology & Genetics	2+0
3		MED 713	Medical Education, Ethics & Writing	2+0
4		MED 714	Instruments & Animal use in research	2(1+1)
5		MED 715	Journal Club -I	No credit hour
6		MED 718	Teaching Internship -I	No credit hour
Total Credit Hours				9

Semester 2

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre-requisite Course Code	Course Code	Course Title	Credit Hours
1	Semester-I	ANA 730	Neuro-Anatomy with Head & Neck	3(2+1)
2		ANA 731	GIT with related abnormalities	3(2+1)
3	ANA 730 & 731	XXX XXX	Elective-I	3 (2+1) No
4	MED 715	MED	Journal Club –II	
		716		Credit hour
5	MED 718	MED 719	Teaching Internship -II	No credit hour
Total Credit Hours				9

Semester 3

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre-requisite Course Code	Course Code	Course Title	Credit Hours
1	ANA 730 & 731	XXX XXX	Elective-II	3+0
2		XXX XXX	Elective-III	3+0
3	-	THS 700	Thesis-I	3+0
4	MED 716	MED 717	Journal Club -III	No credit hour
5	MED 719	MED 720	Teaching Internship-III	No credit hour
Total Credit Hours				9

Semester 4

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre-requisite Course Code	Course Code	Course Title	Credit Hours
1	THS 700	THS 700	THS 701	Thesis-II
Total Credit Hours				3

List of Elective Courses

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre-requisite Course Code	Course Code	Course Title	Credit Hours
1		MED 706	Tissue processing	3 (1+2)
2		MED 708	Cadaveric dissection	3 (1+2)
3		MED 709	Advanced microscopic techniques	3 (1+2)
4	ANA 730 & 731	ANA 732	Microscopic structure of Tissue	3 (2+1)
5		ANA 733	Developmental Anatomy	3 (2+1)
6		ANA 734	Musculoskeletal system	3 (2+1)
7		ANA 735	Cardiovascular & Respiratory system	3 (2+1)
8		ANA 736	Urogenital system	3 (2+1)
9		ANA 737	Reticuloendothelial system	3 (2+1)

MPHIL ROAD MAP BIOCHEMISTRY

Semester 1

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre-requisite Course Code	Course Code	Course Title	Credit Hours
1	Level 6 (MBBS/ BDS) Level 6 (BS or MSc Biochemistry)	MED 701	Research Methodology	3+0
2		MED 712	Medical Biology & Genetics	2+0
3		MED 713	Medical Education, Ethics & Writing	2+0
4		MED 714	Instruments & Animal use in research	2(1+1)
5		MED 715	Journal Club-I	No credit hour
6		MED 718	Teaching Internship -I	No credit hour
Total Credit Hours				9

Semester 2

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre-requisite Course Code	Course Code	Course Title	Credit Hours
1	Semester-I	BIO 750	Advances in Biochemistry and neurosciences	3+0
2		BIO 751	Advances in Clinical Biochemistry	3(2+1)
3	BIO 750 & 751	XXXXXX	Elective –I	3+0
4	MED 715	MED 716	Journal Club - II	No credit hour
5	MED 718	MED 719	Teaching Internship-II	No credit hour
Total Credit Hours				9

Semester 3

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisit e Course Code	Course Code	Course Title	Credit Hours
1	BIO 750 & 751	XXX XXX	Elective-II	3+0
2		XXX XXX	Elective-III	3+0
3	-	THS 700	Thesis-I	3+0
4	MED 716	MED 717	Journal Club -III	No credit hour
5	MED 719	MED 720	Teaching Internship - III	No credit hour
Total Credit Hours				9

Semester 4

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	THS 700	THS 700	THS 701	Thesis- II

List of Elective Courses

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	BIO 750 & 751	BIO 752	Chemical basis of Diet, Nutrition & recent trends in immunology	3(2+1)
2		BIO 753	Advances in Endocrinology	3+0
3		BIO 754	Fluids and electrolyte disorder	3+0
4		BIO 755	Enzymology and vitamins	3+0
5		BIO 756	Acid base disorders	3+0
6		BIO 757	Molecular mechanism of cancer	3+0
7		BIO 758	Mineral and	3+0

MPHIL ROAD MAP PATHOLOGY

Semester 1

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre-requisite Course Code	Course Code	Course Title	Credit Hours
1		MED 701	Research Methodology	3+0
2	Level 6 (MBBS/ BDS(except Histopathology)	MED 712	Medical Biology & Genetics	2+0
3		MED 713	Medical Education, Ethics & Writing	2+0
4		MED 714	Instruments & Animal use in research	2(1+1)
5		MED 715	Journal Club -I	No credit hour
6		MED 718	Teaching Internship -I	No credit hour
Total Credit Hours				9

Semester 2

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	Semester- I	PAT 740	General Pathology & Basic Microbiology	3 (2+1)
2		PAT 750	Special Pathology*	3 (2+1)
3		PAT 751	Microbiology & Mycology**	3 (2+1)
4	PAT 740, 750* & 751**	XXXXXX	Elective- I	3(1+2)
5	MED 715	MED 716	Journal Club - II	No credit hour
6	MED 718	MED 719	Teaching Internship-II	No credit hour
Total Credit Hours				9

*core subject course for Pathology (Histopathology) with PAT 750

** core subject course for Pathology(Microbiology) with PAT 751

Semester 3

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	PAT 740, 750* & 751**	XXX XXX	Elective-II	3+0
2		XXX XXX	Elective-III	3+0
3	-	THS 700	Thesis-I	3+0
4	MED 716	MED 717	Journal Club -III	No credit hour
5	MED 719	MED 720	Teaching Internship -III	No credit hour
Total Credit Hours				9

Semester 4

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	THS 700	THS 700	THS 701	Thesis-II
Total Credit Hours				3

List of Elective Courses

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	PAT 740, 750* & 751**	PAT 742	Tissue processing for histopathology	3(1+2)
2		PAT 743	Histopathology laboratory procedures & reporting	3(1+2)
3		PAT 744	Endocrine & Renal disorders	3(1+2)
4		PAT 745	Molecular pathology laboratory-related to tissue pathology	3(1+2)
5		PAT 746	Microbiology laboratory - procedures & reporting	3(1+2)
6		PAT 747	Molecular pathology laboratory-related to infectious diseases	3(1+2)
7		PAT 748	Virology	3(1+2)
8		PAT 749	Parasitology	3 (1+2)

MPHIL ROAD MAP PHARMACOLOGY

Semester 1

Sr.No.	Road map aligned with HEC GEP Policy			
	Pre-requisite Course Code	Course Code	Course Title	Credit Hours
1	Level 6 (MBBS/ BDS)	MED 701	Research Methodology	3+0
2		MED 712	Medical Biology & Genetics	2+0
3		MED 713	Medical Education, Ethics & Writing	2+0
4		MED 714	Instruments & Animal use in research	2(1+1)
5		MED 715	Journal Club -I	No credit hour
6		MED 718	Teaching Internship -I	No credit hour
Total Credit Hours				9

Semester 2

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	Semester- I	PHM 721	Pharmacological concepts & Adrenergic Pharmacology	3(2+1)
2		PHM 722	Cholinergic & Cardio- Respiratory Pharmacology	3+0
3	PHM 721 & 722	XXX XXX	Elective –I	3+0
4	MED 715	MED 716	Journal Club -II	No credit hour
5	MED 718	MED 719	Teaching Internship -II	No credit hour
Total Credit Hours				9

Semester 3

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	PHM 721 & 722	XXX XXX	Elective-II	3+0
2		XXX XXX	Elective-III	3+0
3	-	THS 700	Thesis-I	3+0
4	MED 716	MED 717	Journal Club -III	No credit hour
5	MED 719	MED 720	Teaching Internship -III	No credit hour
Total Credit Hours				9

Semester 4

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	THS 700	THS 700	THS 701	Thesis-II
Total Credit Hours		3	Total Credit Hours	3

List of Elective Courses

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1		MED 706	Tissue Processing	3(1+2)
2		MED 707	Drug Bio-screening & Herbal Medications	3(2+1)
3	PHM 721 & 722	PHM 723	Neuropharmacology	3+0
4		PHM 724	Endocrine & Gastrointestinal Pharmacology	3+0
5		PHM 725	Chemotherapy	3+0
6		PHM 726	Toxicology	3+0
7		PHM 727	Pharmacogenetics	3+0
8		PHM 728	Autacoids & Analgesics	3+0
9		PHM 729	Age Specific Pharmacology	3+0
10		PHM 730	Dental Pharmacology	3+0

MPHIL ROAD MAP PHYSIOLOGY

Semester 1

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre-requisite Course Code	Course Code	Course Title	Credit Hours
1	Level 6 (MBBS/ BDS)	MED 701	Research Methodology	3+0
2		MED 712	Medical Biology & Genetics	2+0
3	Level 6 (BS or MSc Physiology)	MED 713	Medical Education, Ethics & Writing	2+0
4		MED 714	Instruments & Animal use in research	2(1+1)
5		MED 715	Journal Club -I	No credit hour
6		MED 718	Teaching Internship -I	No credit hour
Total Credit Hours				9

Semester 2

r. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	Semester-I	PHY 760	General, Neuromuscular and Blood Physiology	3+0
2		PHY 761	Cardiorespiratory Physiology	3(2+
3	PHY 760 & 761	XXXXX	Elective –I	3+0
4	MED 715	MED 716	Journal Club- II	No credit hour
5	MED 718	MED 719	Teaching Internship- II	No credit hour
Total Credit Hours				9

Semester 3

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	PHY 760 & 761	XXXX	Elective-II	3+0
2		XXXXX	Elective-III	3+0
3	-	THS 700	Thesis-I	3+0
4	MED 716	MED 717	Journal Club-III	No credit hour
5	MED 719	MED 720	Teaching Internship-III	No credit hour
Total Credit Hours				9

Semester 4

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	THS 700	THS 700	THS 701	Thesis-II
Total Credit Hours				3

List of Elective Courses

Sr. No.	Road map aligned with HEC GEP Policy			
	Pre- requisite Course Code	Course Code	Course Title	Credit Hours
1	PHY 760 & 761	PHY 762	Physiology of Health, Fitness & Exercise	3+0
2		PHY 763	Haeme & Immune system	3+0
3		PHY 764	Gastrointestinal Physiology	3+0
4		PHY 765	Neurophysiology and special senses	3+0
5		PHY766	Renal Physiology	3+0
6		PHY 767	Endocrine and Reproductive Physiology	3+0
7		PHY 768	Electrophysiology	3 (1+2)