# **MEDICINAL CHEMISTRY**

M.S. (Pharm.)

	Course Code	Course Name	Credits	
	course coue		oreuits	
	Semester-I			
	MC-510	Basics of Drug Action	2	
	MC-511	Spectral Analysis	2	
	MC-520	Logic in Organic Synthesis-I	3	
	NP-510	Separation Techniques	1	
	PE-510	Pharmaceutical Preformulations - I	1	
	PT-510	Industrial Process and Scale-up Techniques	1	
	GE-510	Biostatistics	2	
	GE-511	Seminar	1	
	LG-510	General Lab Experience	3	
		Total Credits	16	
	Semester-II			
	MC-610	Drug Design	2	
	MC-620	Logic in Organic Synthesis-II	3	
	MC-630	Structure and Function of Biomolecules	2	
	MC-650	Stereochemistry and Drug Action	2	
	PE-660	Solidstate Pharmaceutics	1	
	PC-610	Drug Metabolism	1	
	GE-611	Seminar	1	
	LS-610	General Lab Experience in the Area of Specializati	on 2	
		Total Credits	14	
	Semester-III			
		Project (22 weeks)		
	TH-598	Synopsis	5	
	TH-599	Presentation	3	
,		Total Credits	8	
	Semester-IV			
	TH-698	Thesis	9	
	TH-699	Defence of Thesis	3	
		Total Credits	12	
		Grand Total (I to IV semesters)	50	

xi

# **NATURAL PRODUCT**

Course Code	Course Name	Credits	Page No.
Semester-I			
NP-510	Separation Techniques	1	
NP-520	Natural Products-I	2	
MC-510	Basics of Drug Action	2	
MC-511	Spectral Analysis	2	
PC-540	Chemotherapy of Parasitic and Microbial Infections	1	
BT-510 GE-510	Biotechnology in Pharmaceutical Sciences Biostatistics	1 2	
GE-510 GE-511	Seminar	2	
LG-510	General Lab Experience	3	
	·		
	Total Credits	15	
Semester-II			
NP-610	Natural Product and Bio-organic Chemistry	2	
NP-620	Natural Products-II	2	
NP-630	Standardization of Natural Product Drugs/Formulation		
NP-640	Structure Elucidation	2	
NP-650	Medicinal Plant Biotechnology and Cultivation	1	
MC CEO	Propagation	0	
MC-650 PC-611	Stereochemistry and Drug Action Pharmacological Screening and Assays	2 1	
GE-611	Seminar	1	
LS-610	General Lab Experience in the Area of Specialization	2	
	Total Credits	15	
Semester-III			
Semester-III	Project (22 weeks)		
TH-598	Synopsis	5	
TH-599	Presentation	3	
	Total Credits	8	
Semester-IV	Thesis	0	
TH-698 TH-699	Defence of Thesis	9 3	
	Total Credits	12	
	Grand Total (I to IV semesters)	50	

#### **TRADITIONAL MEDICINE**

Course Code	Course Name	Credits	Page No.
Semester-I			
TM-510	Introduction to Traditonal Systems of Medicine	1	
TM-520	Ayurvedic Pharmacy	1	
NP-510	Separation Techniques	1	
NP-520	Natural Products-I	2	
PP-520	Clinical and Applied Therapeutics-I	3	
PP-530	Clinical Pharmacy	1	
GE-510	Biostatistics	2	
GE-511	Seminar	1	
LG-510	General Lab Experience	3	
	· · · · · · · · · · · · · · · · · · ·		
	Total Credits	15	
Semester-II			
TM-610	Chemical Standardization of Herbal Drugs	2	
TM-620	Pharmacological Evaluation of Herbal Drugs	2	
TM-630	Clinical Aspects of Herbal Drugs	2	
TM-640	Herbal Formulations	2	
PP-620	Clinical and Applied Therapeutics-II	3	
GE-611	Seminar	1	
LS-610	General Lab Experience in the Area of Specializat		
	Total Credits	15	
Semester-III			
Semester-III	Project (22 weeks)		
TH-598	Synopsis	5	
TH-599	Presentation	3	
	Total Credits	8	
		-	
Semester-IV			
TH-698	Thesis	9	
TH-699	Defence of Thesis	3	
	Total Credits	12	
	Grand Credits (I to IV semesters)	50	

# **PHARMACEUTICAL ANALYSIS**

M.S. (Pharm.)

Course Code	Course Name	Credits
Comentari		
Semester-I	Tanias in Dhamma a sutia sh Anahusia	0
PA-510	Topics in Pharmaceutical Analysis	2
MC-511	Spectral Analysis	2
NP-510	Separation Techniques	1
PE-510	Dosage Form Design Parameters	1
BT-510	Biotechnology in Pharmaceutical Sciences	1
GE-510	Biostatistics	2
GE-520	Fundamentals of Intellectual Property (IP) and	
	Technology Management	1
GE-511	Seminar	1
LG-510	General Lab Experience	3
· · · · · · · · · · · · · · · · · · ·		
	Total Credits	14
Semester-II		
PA-610	Pharmacopoeial Methods of Analysis	2
PA-620	Instrumental Techniques for Evaluation of	Z
I A-020	APIs and Drug Products	2
DA 620	8	2
PA-630	Stability Testing	2
PA-640	Quality Control and Quality Assurance	
NP-640	Structure Elucidation	2
PC-611	Pharmacological Screening and Assays	1
PE-630	Pharmaceutical Product Development-I	2
PE-660	Solid State Pharmaceutics	1
GE-611	Seminar	1
LS-610	General Lab Experience in the Area of specialization	า 2
	Total Credits	16
Semester-III		
<b>T</b> U 500	Project (22 weeks)	-
TH-598	Synopsis	5
TH-599	Presentation	3
	Total Credits	8
Semester-IV	<b>—</b> , ·	0
TH-698	Thesis	9
TH-699	Defence of Thesis	3
	Total Credits	12
	Grand Credits (I to IV semesters)	50

xiv

# PHARMACOLOGY AND TOXICOLOGY

Pathophysiology General Pharmacology Experimental Pharmacology Chemotherapy of Parasitic and Microbial Infections Separation Techniques Biopharmaceutics and Pharmacokinetics	1 2 1 1 1	
General Pharmacology Experimental Pharmacology Chemotherapy of Parasitic and Microbial Infections Separation Techniques	2 1 1 1	
General Pharmacology Experimental Pharmacology Chemotherapy of Parasitic and Microbial Infections Separation Techniques	2 1 1 1	
Experimental Pharmacology Chemotherapy of Parasitic and Microbial Infections Separation Techniques	1 1 1	
Chemotherapy of Parasitic and Microbial Infections Separation Techniques	1 1	
Separation Techniques	1	
	-	
Biopharmaceutics and Pharmacokinetics	•	
	2	
Biotechnology in Pharmaceutical Sciences	1	
Biostatistics	2	
Fundamentals of Intellectual Property (IP) and		
Technology Management	1	
Seminar	1	
General Lab Experience	3	
Total Credits	16	
Drug Metabolism	1	
•		
•••		
	•	
General Lab Experience in the Area of Specialization	ı 2	
Total Credits	14	
Project (22 weeks)		
	5	
FIESEIILALIOIT		
Total Credits	8	
Thesis	9	
Total Credits	12	
	Technology Management Seminar General Lab Experience Total Credits Drug Metabolism Pharmacological Screening and Assays CNS and Respiratory Pharmacology Autonomic, CVS, Blood, Renal and GI Pharmacology Autocoid and Endocrine Pharmacology Clinical Pharmacology and Regulatory Toxicology Chemotherapy and Immunopharmacology Seminar General Lab Experience in the Area of Specialization Total Credits Project (22 weeks) Synopsis Presentation Total Credits Thesis Defence of Thesis	Technology Management1Seminar1General Lab Experience3Total Credits16Drug Metabolism1Pharmacological Screening and Assays1CNS and Respiratory Pharmacology2Autonomic, CVS, Blood, Renal and GI Pharmacology2Autocoid and Endocrine Pharmacology1Clinical Pharmacology and Regulatory Toxicology2Chemotherapy and Immunopharmacology2Seminar1General Lab Experience in the Area of Specialization2Total Credits14Project (22 weeks)5Synopsis5Presentation3Total Credits8Thesis9Defence of Thesis3

# **REGULATORY TOXICOLOGY**

M.S. (Pharm.)

Course Code	Course Name	Credits
Semester-I		
RT-540	Principles and Methods in Toxicology	1
RT-550	Introduction to Regulatory Toxicology	2
PC-511	Pathophysiology	1
PC-520	General Pharmacology	2
PC-530	Experimental Pharmacology	1
PE-520	Biopharmaceutics and Pharmacokinetics	2
GE-510	Biostatistics	2
GE-520	Fundamentals of Intellectual Property (IP) and	2
GL-520	Technology Management	1
	Seminar	
GE-511		1
LG-510	General Lab Experience	3
	Total Credits	16
Semester-II		
RT-630	Malagular Toxicology	2
RT-640	Molecular Toxicology	2
RT-650	Target Organ Toxicology Good Laboratory Practice in Regulatory Toxicology	2
RT-660	Bioethics	2
PC-610		
PC-610 PC-611	Drug Metabolism	1
PC-650	Pharmacological Screening and Assays	1 2
GE-611	Clinical Pharmacology and Regulatory Toxicology Seminar	
		1 n 2
LS-610	General Lab Experience in the Area of Specialization	Π 2
	Total Credits	14
Semester-III		
	Project (22 weeks)	
TH-598	Synopsis	5
TH-599	Presentation	3
	Total Credits	8
Semester-IV	<u> </u>	
TH-698	Thesis	9
TH-699	Defence of Thesis	3
	Total Credits	12
	Grand Credits (I to IV semesters)	50

xvi

#### **PHARMACEUTICS** M.S. (Pharm.)

Semester-I		
PE-510	Pharmaceutical Preformulation-I	1
PE-520	Biopharmaceutics and Pharmacokinetics	2
PE-530	Pharmaceutical Preformulation-II	1
PE-540/PT-580	Regulatory Consideration for Pharm Development	1
MC-511	Spectral Analysis	2
NP-510	Separation Techniques	1
BT-510	Biotechnology in Pharmaceutical Sciences	1
GE-510	Biostatistics	2
GE-520	Fundamentals of Intellectual Property (IP) and	-
02 020	Technology Management	1
GE-511	Seminar	1
LG-510	General Laboratory Experience	3
20-510	General Laboratory Experience	5
	Total Credits	16
Semester-II		_
PE-620	Drug Delivery I (Controlled Drug Delivery)	2
PE-630	Pharmaceutical Product Development-I	1
PE-640	Pharmaceutical Product Development-II	2
PE-650	Drug Delivery I (Targeted drug delivery)	2
PE-660	Solid State Pharmaceutics	1
PA-630	Stability Testing	1
PC-610	Drug Metabolism	1
PC-611	Pharmacological Screening and Assays	1
GE-611	Seminar	1
LS-610	General Lab Experience in the Area of Specialization	2
	Total Credits	14
Semester-III		
	Project (22 weeks)	_
TH-598	Synopsis	5
TH-599	Presentation	3
	Total Credits	8
Someotor IV		
Semester-IV	These	0
TH-698	Thesis	9
TH-699	Defence of Thesis	3
	Total Credits	12
	Grand Credits (I to IV semesters)	50

# BIOTECHNOLOGY M.S. (Pharm.)

Course Code	Course Name	Credits
Semester-I		
BT-520	Cell Biology	2
BT-530	Microbial Genetics	1
BT-550	Biochemistry	2
PT-520	Microbiology	1
PT-530	Biochemical Engineering Fundamentals	2
MC-511	Spectral Analysis	2
NP-510	Separation Techniques	1
GE-510	Biostatistics	2
GE-511	Seminar	1
LG-510	General Laboratory Experience	3
	General Laboratory Experience	5
	Total Credits	17
Semester-II		
BT-610	Molecular Biology	2
BT-620	Recombinant DNA Technology	2
BT-630	Immunology and Immunotechnology	2
BT-650	Analysis, Diagnostics and Cell Based Screening	2
BT-660	Sequence Analysis	2
GE-611	Seminar	1
LS-610	General Lab Experience in the Area of Specialization	
	· · ·	
	Total Credits	13
Semester-III		
	Project (22 weeks)	
TH-598	Synopsis	5
TH-599	Presentation	3
	Total Credits	8
Semester-IV		
TH-698	Thesis	9
TH-699	Defence of Thesis	3
	Total Credits	12
	Grand Total (I to IV semesters)	50

# **PHARMACOINFORMATICS**

Course Code	Course Name	Credits
Semester-I		
PI-510	Introduction to Pharmacoinformatics	1
PI-520	Pharmacoinformatics – C++ Programming	2
PI-540	Pharmacogenamics	1
MC-510	Basics of Drug Action	2
GE-510	Biostatistics	2
GE-520	Fundamentals of Intellectual Property (IP) and	Z
GE-520		1
	Technology Management	1
GE-511	Seminar	1
LS-510	General Lab experience	3
	Total Credits	13
Semester-II		
PI-610	Pharmacoinformatics-Bioinformatics	2
PI-620	Pharmacoinformatics -Chemoinformatics	2
PI-630	Metabolomics and Toxicoinformatics	2
PI-650	Pharmacoinformatics Database Management	1
PI-660	-	2`
	Data Analytics	
PI-670	Pharmacoinformatics - Perl Programming	1
MC-610	Drug Design	2
BT-610	Molecular Biology	2
GE-611	Seminar	1
LS-610	General Lab Experience in the Area of Specializat	ion 2
	Total Credits	17
Semester-III		
TH-598 TH-599	Synopsis Presentation	5 3
10-599	riesentation	3
	Total Credits	8
Semester-IV		
TH-698	Thesis	9
TH-699	Defence of Thesis	3
	Total Credits	12
	Grand Total (I to IV semesters)	50

#### **PHARMACY PRACTICE**

M.Pharm.

Course Code	Course Name	Credits	
Semester-I			
PP-510	Pharmacy Practice-I	1	
PP-520	Clinical and Applied Therapeutics-I	3	
PP-530	Clinical Pharmacy	1	
PE-520	Biopharmaceutics and Pharmacokinetics	2	
GE-510	Biostatistics	2	
GE-511	Seminar / Presentation	-	
LG-511	Clinical Placement	4	
LG-512	Computer Applications	2	
20 012		-	
	Total Credits	16	
Semester-II			
PP-610	Pharmacy Practice-II	1	
PP-611	Pharmacy Practice-III (Community and Rural Pha		
PP-620			
		2	
PP-631	Evidence Based Medicine and Critical Appraisal Clinical Biostatistics	2	
GE-611	Seminar / Presentation	•	
	Clinical Placement	1 5	
LG-611		5	
	Total Credits	14	
Semester-III			
	Project (22 weeks)		
TH-598	Synopsis	5	
TH-599	Presentation	3	
	Total Credits	8	
Semester-IV			
TH-698	Thesis	9	
TH-699	Defence of Thesis	3	
		-	
	Total Credits	12	
	Grand Total (I to IV semesters)	50	

XX

#### **CLINICAL RESEARCH**

M.Pharm.

xxi

	Course Name C	redits
Semester-I		
CR-510	Drug Discovery & Development	2
CR-520	Introduction to Clinical Research	1
CR-530	IRBs and Ethics in Clinical Trials	1
PE-520	Biopharmaceutics and Pharmacokinetics	2
PM-553	National Regulatory Environment	2
GE-510	Biostatistics	2
GE-511	Seminar/Presentations	1
LG-513	Computer Applications	2
	Total Credits	13
Semester-II		
CR-610	Bioavailability and Bio-Equivalence Testing	2
CR-620	Clinical Research Management	2
CR-630	Safety in Clinical Trials	1
CR-640	Document for Clinical Trials	2
CR-650	Clinical Data Management	2
CR-660	Medical Writing and Reporting	1
CR-670	Clinical Trials in Special Populations	2
CR-680	Research Designs	2
PC-611	Pharmacological Screening and Assays	1
PE-620	Drug Delivery Systems	2
	Total Credits	17
Semester-III		
CR-551	Clinical Trials Documentation	3
CR-552	Monitoring of Clinical Investigations	1
CR-553	Emerging Technologies in Clinical Trials	1
CR-554	Quality Control and Quality Assurance in Clinical Trials	2
CR-555	Protocol Writing/Defence Assignment	1
	Total Credits	8
Semester-IV		
TH-698	Thesis	9
TH-699	Defence of Thesis	3
	Total Credits	12
		12

#### PHARMACEUTICAL TECHNOLOGY (FORMULATIONS)

M.Pharm.

Course Code	Course Name	Credits .
Semester-I		
PT-580	Regulatory Considerations for Formulation Develop	ment 1
MC-511	Spectral Analysis	2
NP-510	Separation Techniques	1
PA -510	Topics in Pharmaceutical Analysis	2
PE-510	Dosage Form Design Parameters	1
PE-520	Biopharmaceutics and Pharmacokinetics	2
BT-510	Biotechnology in Pharmaceutical Sciences	1
GE-510	Biostatistics	2
GE-520	Fundamentals of Intellectual Property (IP) and	-
02 020	Technology Management	1
GE-511	Seminar	1
LG-510	General Lab Experience	3
	·	
	Total Credits	17
Semester-II		
PT-620	Pharmaceutical Production Technology	1
PT-660	Formulation Development Concepts as	2
	Applied in Industry	
PT-670	Industrial Pharmaceutical Processing	1
	(Scale up and validation)	
PA -630	Stability Testing	1
PE-620	Drug Delivery Systems	2
PE-630	Pharmaceutical Product Development-I	2
PE-660	Solid State Pharmaceutics	1
GE-611	Seminar	1
LS-610	General Lab Experience in the Area of Specializatio	n 2
	Total Credits	13
Semester-III		
	Project (22 weeks)	
TH-598	Synopsis	5
TH-599	Presentation	3
	Total Credits	8
Comenter IV		
Semester-IV TH-698	Thesis	9
TH-699	Defence of Thesis	3
11-033		5
	Total Credits	12

# **PHARMACEUTICAL TECHNOLOGY** (PROCESS CHEMISTRY) M.Tech. (Pharm.)

Course Code	Course Name	Credits	
Semester-I			
PT-510	Industrial Process and Scale-up Techniques	1	
PT-560	Synthetic Aspects of Process Chemistry	2	
MC-511	Spectral Analysis	2	
MC-520	Logic in Organic Synthesis-I	3	
NP-510	Separation Techniques	1	
GE-510	Biostatistics	2	
GE-520	Fundamentals of Intellectual Property (IP) and	1	
	Technology Management		
GE-511	Seminar	1	
LG-510	General Lab Experience	3	
	·		
	Total Credits	16	
Semester-II			
PT-610	Topics Relevant to Drugs and Pharmaceutical Indust	ry 1	
PT-630	Synthetic Bulk Drug Technology	2	
PT-690	Downstream Processing of Biological Products	1	
MC-620	Logic in Organic Synthesis-II	3	
MC-650	Stereochemistry and Drug Action	2	
PA-620	Instrumental Techniques for Evaluation	2	
	of APIs and Drug Products		
GE-611	Seminar	1	
LS-610	General Laboratory Experience in the	2	
	Area of Specialization		
	Total Credits	14	
Semester-III			
ochiester m	Project (22 weeks)		
TH-598	Synopsis	5	
TH-599	Presentation	3	
	Total Credits	8	
Somostor IV			
Semester-IV TH-698	Thesis	9	
TH-699	Defence of Thesis	3	
111-033		3	
	Total Credits	12	
	Grand Total (I to IV semesters)	50	

# PHARMACEUTICAL TECHNOLOGY (BIOTECHNOLOGY) M.Tech. (Pharm.)

Course Code	Course Name	Credits	Page No.
Semester-I			
PT-520	Microbiology	1	
PT-530	Biochemical Engineering Fundamentals	2	
PT-540	Animal and Plant Cell Technology	1	
PT-550	Enzyme and Microbial Technology	1	
MC-511	Spectral Analysis	2	
NP-510	Separation Techniques	1	
GE-510	Biostatistics	2	
GE-520	Fundamentals of Intellectual Property (IP) and		
	Technology Management	1	
GE-511	Seminar	1	
LG-510	General Laboratory Experience	3	
	Total Credits	15	
Semester-II			
PT-640	Bioprocess Technology	1	
PT-690	Downstream Processing of Biological Products	1	
PC-610	Drug Metabolism	1	
PC-611	Pharmacological Screening and Assays	1	
BT-610	Molecular Biology	2	
BT-620	Recombinant DNA Technology	2	
BT-630	Immunology and Immunotechnology	2	
PI-610	Bioinformatics	2	
GE-611	Seminar	1	
LS-610	General Lab Experience in the Area of Specializatio	n 2	
	Total Credits	15	
Semester-III			
	Project (22 weeks)		
TH-598	Synopsis	5	
TH-599	Presentation	3	
	Total Credits	8	
Semester-IV			
TH-698	Thesis	9	
TH-699	Defence of Thesis	3	
	Total Credits	12	
	Grand Total (I to IV semesters)	50	

xxiv

# **PHARMACEUTICAL MANAGEMENT**

M.B.A. (Pharm.)

XXV

	PHARMACEUTICAL N	MANAG M.
Course Code	Course Name	Credits
Semester-I		
PM-501	Fundamentals of Management	3
PM-502	Accounting for Management	3
PM-503	Managerial Economics	3
PM-504	Pharmaceutical Marketing	3
PM-505	Quantitative Techniques and Management	3
PM-506	Information Technology and MIS	3
PM-507	Human Behaviour in Organisation	2
PM-508	IPRs in Pharma Management	1
PM-511	Seminar	1
	Total Credits	22
Semester-II		
PM-601	Pharmaceutical Business Environment	3
PM-602	Financial Management	3
PM-603	Marketing Research	3
PM-604	Materials and Operations Management	3
PM-605	Business Communication	3
PM-606	Human Resource Management	2
PM-607	Supply Chain Management in Pharma. Sector	3
PT-610	Topics Relevant to Drugs and Pharmaceutical Industry	1
PM-611	Seminar	1
	Total Credits	22
Semester-III		
PM-551	Project Management	3
PM-552	Entrepreneurial Development	3
PM-553	National Regulatory Environment	2
PM-554	International Marketing	3
PM-555	Sales and Sales Promotion	3
PM-556	Industrial and Service Marketing	3
PM-557	Contemporary Issues in Pharmaceutical Marketing	2
PM-558	Fundamentals of R&D Management-I	2
PM-581	Project Summer Training	2
	Total Credits	23
Semester-IV		
PM-651	Management Control System	3
PM-652	Strategic Management	3
PM-653	International Regulatory Environment	2
PM-654	Pharmaceutical Product Management	3
PM-655	Pharmaceutical Brand Management	3
PM-656	Consumer Behaviour	2
PM-657	Advertising in Pharmaceutical Sector	3
PM-658	Fundamentals of R&D Management-II	2
PM-680(a)	Major Research Project (Thesis)	9
PM-680(b)	Defence of Thesis	3
	Total Credits	33
	Grand Total (I-IV semesters)	100

# **PH.D COURSES**

Course Code	Course Name	Credits		
Medicinal Chemistry				
Semester-I				
MC-710	Stereoselective and Stereospecific Synthesis	2		
MC-720	Carbohydrates: Occurrence, Structure, Reactions	2		
	Syntheses, Functions and Applications in Present			
	Day Drugs			
MC-730	Organometallic and Sustainable Chemistry in	2		
	Synthesis of Pharmaceuticals			
Semester-II		0		
MC-810	Principles of Peptide Chemistry	2		
MC-830	Advanced Topics in Drug Action and Drug Design	2		
Natural Products				
Somostor I				
Semester-I NP-710	Advanced Separation Techniques for Research	2		
NP-720	Natural Product-Based Drugs and Lead Molecules	2		
Semester-II	Natural Product Dascu Drugs and Lead Molecules	2		
NP-810	Advanced Structure Elucidation Techniques for			
	Natural Products	2		
Pharmaceutical	Analysis			
Semester-I				
PA-710	Impurity and Metabolite Profiling	2		
Pharmacology a	nd Toxicology			
Semester-II				
PC-810	Application of Biotechnology in Parasitic Disease Resea	rch 2		
PC-820	Pharmacological Interventions for Ischemic Brain Injury	2		
PC-830	Parasitology/Microbiology, Community and Pharmacy	2		
PC-840	Regulatory Toxicology and Drug Safety Evaluation	2		
10-040	Cellular and Molecular Parasitology	2		
PC-850	Epigenetics and Diseases	2		
PC-850 PC-860 Pharmaceutics		2		
PC-850 PC-860	Epigenetics and Diseases	2		
PC-850 PC-860 Pharmaceutics Semester-I PE-710		2		
PC-850 PC-860 Pharmaceutics	Epigenetics and Diseases			

# **PH.D. COURSES**

Course Code	Course Name	Credits
Biotechnology		
Semester-I		
BT-710	Interfacial Enzymology	2
BT-720	Therapeutic and Diagnostic Approaches in Neglected Tropical Diseases	2
Semester-II		
BT-810	Protein Structure and Stability	2
BT-820	Host-Pathogen Interaction in Infectious Disease	2
Pharmacoinform	atics	
Semester-I		
PI-710	Strategies in Lead Optimization	2
PI-720	Computational Biopharmaceutics and Pharmacokinetics	
PI-750	Big Data and Analytics	2
Pharmacy Praction	ce	
Semester-I		
PP-701	Research Methods-I	2
Semester-II		
PP-801	Research Methods-II	2
Pharmaceutical	Technology (Process Chemistry)	
Semester-I		
PT-710	Technologies for Green Chemistry	2
Semester-II		
PT-820	Topics in Organic Process Chemistry	2
Pharmaceutical	Technology (Biotechnology)	
Semester-II		
PT-810	Biotransformation and Stereoselective Biocatalysis of Pharmaceutically Important Compounds	2

33