M. Pharmacy Course (Pharmacology)								
1.	Advanced Pharmacology II	PHAR5118	Mandatory	Theory	4	25	75	100
2.	Pharmacological and Toxicological Screening Methods-II	PHAR5119	Mandatory	Theory	4	25	75	100
3.	Principles of Drug Discovery	PHAR5120	Mandatory	Theory	4	25	75	100
4.	Experimental Pharmacology practical- II	PHAR5121	Mandatory	Theory	4	25	75	100
5.	Pharmacology Practical II	PHAR5122	Mandatory	Practical	6	50	100	150
6.	Seminar/Assignment	PHAR5123	Mandatory	-	4	-	100	100
				TOTAL	**26**	**150**	**500**	**650**

Note:-Minimum 50% marks have to be scored totally in each subject (including Internal & External marks) for being pass in the said subject.

COURSE CURRICULUM OF MASTER OF PHARMACY (PHARMACOLOGY)

FIRST YEAR
Second Semester

MPL 201T/ PHAR5118: ADVANCED PHARMACOLOGY – II

The subject is designed to strengthen the basic knowledge in the field of pharmacology and to impart recent advances in the drugs used for the treatment of various diseases. In addition, the subject helps the student to understand the concepts of drug action and mechanism involved. Upon completion of the course the student shall be able to explain the mechanism of drug actions at cellular and molecular level, discuss the Pathophysiology and pharmacotherapy of certain diseases and understand the adverse effects, contraindications and clinical uses of drugs used in treatment of diseases

MPL 202T/ PHAR5119: PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS-II

This subject imparts knowledge on the preclinical safety and toxicological evaluation of drug & new chemical entity. This knowledge will make the student competent in regulatory toxicological evaluation. Upon completion of the course, the student shall be able to explain the various types of toxicity studies, appreciate the importance of ethical and regulatory requirements for toxicity studies and demonstrate the practical skills required to conduct the preclinical toxicity studies

MPL 203T/ PHAR5120: PRINCIPLES OF DRUG DISCOVERY

The subject imparts basic knowledge of drug discovery process. This information will make the student competent in drug discovery process. Upon completion of the course, the student shall be able to explain the various stages of drug discovery, Appreciate the importance of the role of genomics, proteomics and bioinformatics in drug discovery, explain various targets for drug discovery, explain various lead seeking method and lead optimization and appreciate the importance of the role of computer aided drug design in
drug discovery.

MPL 204T/ PHAR5121: CLINICAL RESEARCH AND PHARMACOVIGILANCE

This subject will provide a value addition and current requirement for the students in clinical research and pharmacovigilance. It will teach the students on conceptualizing, designing, conducting, managing and reporting of clinical trials. This subject also focuses on global scenario of Pharmacovigilance in different methods that can be used to generate safety data. It will teach the students in developing drug safety data in Pre-clinical, Clinical phases of Drug developmentand post market surveillance.

MPL 205P/ PHAR5122: PHARMACOLOGICAL PRACTICAL – II

The practical are specifically designed to estimate the effect of drugs on the isolated tissue. Students investigate some of the responses of chick ileum and guinea pig ileum preparation to several drugs, ranging from dose–response studies to demonstration of selective antagonism. It urges students to clinically study the prescription and explain the uses of the prescribed drugs on particular case.