

Subject Name	Description
Pharmaceutical Organic Chemistry II	This subject deals with general methods of preparation and reactions of some organic compounds. Reactivity of organic compounds are also studied here. The syllabus emphasizes on mechanisms and orientation of reactions. Chemistry of fats and oils are also included in the syllabus.
Physical Pharmaceutics – I	The course deals with the various physical and physicochemical properties, and principles involved in dosage forms/formulations. Theory and practical components of the subject help the student to get a better insight into various areas of formulation research and development, and stability studies of pharmaceutical dosage forms.
Pharmaceutical Microbiology	<p>In the broadest sense, scope of microbiology is the study of all organisms that are invisible to the naked eye- that is the study of microorganisms.</p> <p>Microorganisms are necessary for the production of bread, cheese, beer, antibiotics, vaccines, vitamins, enzyme etc.</p> <p>Microbiology has an impact on medicine, agriculture, food, science, ecology, genetics, biochemistry, immunology etc</p>
Pharmaceutical Engineering	This course is designed to impart a fundamental knowledge on the art and science of various unit operations used in pharmaceutical industry.
Pharmaceutical Organic Chemistry –III	This subject imparts knowledge on stereo-chemical aspects of organic compounds and organic reactions, important named reactions, chemistry of important hetero cyclic compounds. It also emphasizes on medicinal and other uses of organic compounds.
Medicinal Chemistry – I	This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject emphasizes on structure activity relationships of drugs, importance of physicochemical properties and metabolism of drugs. The syllabus also emphasizes on chemical synthesis of important drugs under each class.
Physical Pharmaceutics-II	The course deals with the various physical and physicochemical properties, and principles involved in dosage forms/formulations. Theory and practical components of the subject help the student to

	get a better insight into various areas of formulation research and development, and stability studies of pharmaceutical dosage forms.
Pharmacology-I	The main purpose of the subject is to understand what drugs do to the living organisms and how their effects can be applied to therapeutics. The subject covers the information about the drugs like, mechanism of action, physiological and biochemical effects (pharmacodynamics) as well as absorption, distribution, metabolism and excretion (pharmacokinetics) along with the adverse effects, clinical uses, interactions, doses, contraindications and routes of administration of different classes of drugs.
Pharmacognosy And Phytochemistry I	The subject involves the fundamentals of Pharmacognosy like scope, classification of crude drugs, their identification and evaluation, phytochemicals present in them and their medicinal properties.