

Guru Nanak Institute of Pharmaceutical Science & Technology
B. PHARM 3RD YEAR 5TH SEMESTER

CO label	CO Statement	BTL
CO 511.1	Classify the therapeutic agents and outline the synthetic route for the selective medicinal compounds of each category	2
CO 511.2	Articulate on the mechanism of action of agents acting on autonomous and central nervous system	3
CO 511.3	Compare the relationship between the biological activity and structure of therapeutic agents.	6
CO 511.4	Outline the rational use of antibiotics, antineoplastic and antidiabetic drugs	4
CO514.1	Explain the Metabolic pathways in higher plants and their determination and basic of phytochemistry	5
CO514.2	Explain various crude drugs from resin, tannins, volatile oil and glycoside	4
CO514.3	Discuss the modern extraction techniques, characterization and identification of the herbal drugs and phytoconstituents	4
CO512.1	To explain different parameters required for drug delivery.	2
CO512.2	To choose proper surgical products.	3
CO512.3	To choose and justify use of proper pharmaceutical packaging materials.	1,3,5
CO512.4	Develop the ability to formulate different pharmaceutical dosage form.	6
CO512.5	To build knowledge about formulation development.	3
CO513.1	Analyze the mechanism of drug action and its relevance in the treatment of different diseases	4
CO513.2	Demonstrate isolation of different organs/tissues from the laboratory animals by simulated experiments	2
CO513.3	Demonstrate the various receptor actions using isolated tissue preparation	2
CO513.4	Justify correlation of pharmacology with related medical sciences	5

CO515.1	Awareness and Recognize about the Legislation related to Pharmacy & Pharmaceutical Sciences	2
CO515.2	To Understand and Judge the Ethics, the Pharmacy Act of India and Drugs & Cosmetics Act of India 1940 and Rules 1945	6
CO515.3	Awareness to the Responsibility towards Medicinal & Toiletries Preparation Act, Narcotics Drugs & Psychotropic Substances Act and finally Drug Price Controlling Authority norms.	2
CO515.4	To Judge, be Aware and to Appraise the wrongs of Drugs & Magic Remedies Act, MTP Act, Awareness of CPCSEA, to Understand the Shop, Factory & Patent Act.	6