

Third Year B.Pharm (V Semester)

351T Industrial Pharmacy-I

Students will able to Know

CO 1: To understand physicochemical principles guiding tablet and capsule formulation

CO 2: To acquire knowledge of formulation & evaluation of various types of tablets and capsules

CO 3: To be acquainted with equipments used in manufacturing of granules, tablet & capsule

CO 4: To study tablet coating technology

351P Industrial Pharmacy-I

Students will able to Know

CO 1: To become familiar with various equipments used for preparation and evaluation of tablets and filling of capsules

CO 2: To expertise in preparation and evaluation of granules, tablets, and capsules

CO 3: To develop skill of evaluation of marketed tablets and capsules

352T Pharmaceutical Analysis-III

Students will able to Know

CO 1: Explain different types of instrumental analytical techniques available for quality control of formulations

CO 2: To understand principle, instrumentation and application of UV, Flame techniques

CO 3: Adopt various sampling techniques employed in analysis of solids, semisolid and liquid dosage forms while working in industry.

352P Pharmaceutical Analysis-III

Students will able to Know

CO 1: To perform assay of API's and its formulation

CO 2: Plan and execute a lab exercise using appropriate analytical skills and generate a comprehensive lab report on the findings.

CO 3: To make students acquainted with determination of elements such as alkali and alkaline earth metals by the techniques such as flame

353T Medicinal Chemistry-I

Students will able to Know

CO 1: Understanding physicochemical properties, stereo chemical aspects of drug in development and application of therapeutic drugs.

CO 2: To study classification, nomenclature, SAR, MOA, therapeutic uses, adverse effects, recent development in ANS acting drugs & To study clinical significance of CVS acting drugs.

CO 3: Understanding the basic principles of drug action, including receptor theory, agonism and antagonism, the principle classes of drug targets and signal transduction mechanisms.

353P Medicinal Chemistry-I

Students will able to Know

CO 1: synthesis of medicinally important compounds and its purification by TLC and column chromatography

CO 2: Adopt different distillation technique for purification of solvent.

354T Pharmacology-II

Students will able to Know

CO 1: To study classification, mechanism of action, pharmacological actions, therapeutic uses, adverse effects, drug interactions, contraindications, dosages and treatment of poisoning involved in ANS

CO 2: To learn essential pharmacotherapy and pharmacological features of important drugs used in cardiovascular diseases and respiratory disorders

CO 3: To get information about skeletal muscle stimulant or relaxant drugs including the cholinergic neuromuscular agonists and antagonists.

354P Pharmacology-II

Students will able to Know

CO 1: To introduce student about commonly used instruments in experimental pharmacology.

CO 2: To study handling of common laboratory animals, methods for blood collection and various routes of drug administration.

CO 3: To learn the action of various drugs using preclinical Models / computer simulations.

355T Analytical Pharmacognosy and Extraction Tech.

Students will able to Know

CO 1: Explain principle of mass transfer process in extraction, effect of various factors, specific care in herbal material & various approaches in extraction processes with their theoretical consideration, methodological steps, & applications.

CO 2: Explain principle & applications of chromatographic & non chromatographic separation methods

CO 3: Explain need of analysis of natural products & explain their significance; Understand & explain various parameters with their principles, significance & applications.

355P Analytical Pharmacognosy and Extraction Tech.

Students will able to Know

CO 1: Study micrometric data & identify the crude drugs.

CO 2: Successive extraction & qualitative tests to ascertain chemical nature of crude drugs.

CO 3: Knowledge of various quality control parameters studied in theory, explain significance of use of various chemicals/solvents/conditions; undertake various estimations/determinations

356T Pharmaceutical Business mgt and Disaster mgt

Students will able to Know

CO 1: To study the pharmaceutical business and management strategy

CO 2: To gain knowledge of marketing research, product management

CO 3: To learn about human resource and development need

CO 4: To study the disaster management and preparedness, mitigation

357T Active Pharmaceutical Ingredient Technology

Students will able to Know

CO 1: To study basics of chemical process and equipments used in API manufacturing.

CO 2: To design synthetic route, scale up technique, optimization of reaction, MSDS, QC aspects, environmental aspects, green chemistry approach, health hazards of chemical handling, & mfg flow chart of API.

CO 3: To explain manufacturing technique of chiral API, overview of QC, QA & GMP guidelines in API mfg.