

First Year B.Pharm (I Semester)

111T Pharmaceutics I

Students will able to Know

CO 1: Basic knowledge of pharmacy, pharmacopoeia and alternative system of medicine.

CO 2: Influence of the design of pharmaceutical dosage form and factors, study of route of administration.

CO 3: Preformulation study (physical and chemical) and formulation of dosage form.

111P Pharmaceutics I

Students will able to Know

CO 1: Introduction of labelling, packaging importance of shelf life in stability study as per ICH.

CO 2: Formulation & evaluation of dosage form.

CO3: Introduction and demonstration of various equipments in pharmaceutical lab with SOP.

112T Modern Dispensing Practices

Students will able to Know

CO 1: Accurate & appropriate compounding, dispensing & counselling of pharmaceutical product.

CO 2: To report various information to health care professional regarding ADR, Idiosyncrasy & Pharmacovigilance.

CO 3: Application of Principle, Working knowledge & calculation of drug dose, pharmaceutical Measuring & Weighing.

CO 4: Community Pharmacist - Role of pharmacist in health care system.

112P Modern Dispensing Practices

Students will able to Know

CO 1: Compounding & Dispensing of Various dosage form like Mouthwash, Liniment,

Emulsion, Gargle etc.

CO 2: To study Physical, chemical & Therapeutic Incompatibility with respect to dosage form.

CO 3: Patient counselling regarding safe use of medicine, pharmaceutical calculations – Allegation method, Proof Spirit & Isotonicity adjustment

113T Pharmaceutical Inorganic Chemistry

Students will able to Know

CO 1: Understand the different pharmacopoeias, monographs and their significance in Pharmaceutical science.

CO 2: Acquire knowledge about limits tests, qualitative tests, methods of purification of inorganic compound.

CO 3: Illustrate importance of GIT agents, Electrolytes, Topical agents and trace elements.

113P Pharmaceutical Inorganic Chemistry

Students will able to Know

CO 1: To prepare, perform calculations and identification of compounds as per IP.

CO 2: To understand principles behind limit tests for identification of impurities in pharmaceutical substances.

CO 3: Perform systematic qualitative analysis of unknown inorganic binary mixture with principles behind the test.

114T Pharmaceutical Organic Chemistry

Students will able to Know

CO 1: Understand the basic terminologies and concepts in organic chemistry, like- inductive effect, resonance, hyper conjugation, hybridization etc.

CO 2: Acquire knowledge about different Reaction Intermediates & their application in reaction mechanism.

CO 3: Explain the mechanism involved in the substitution, addition, nucleophilic and elimination reactions.

CO 4: Assign IUPAC Nomenclature to the Organic Compounds with respect to functional groups.

114P Pharmaceutical Organic Chemistry

Students will able to Know

CO 1: Understand and adopt technique of synthesis of organic compounds with respect to their mechanism of reaction.

CO 2: Explain correct use of various equipment's & Safety measures in Pharmaceutical Chemistry laboratory.

CO 3: Perform systematic qualitative analysis of unknown organic compounds with principles behind the test.

115T Human Anatomy and Physiology

Students will able to Know

CO 1: Understand basic terminologies used in Anatomy and physiology as well as prefixes and suffixes used to identify body parts and directional terms.

CO 2: Understand composition and functions of blood components and blood coagulation.

CO 3: Recognize the relevance and significance of human anatomy and physiology to pharmaceutical sciences.

CO 4: To observe current scenario of health education by visiting Blood banks and hospitals.

115P Human Anatomy and Physiology

Students will able to Know

CO 1: Identify the different bones of the skeletal system and various models/specimen/slides of human organs and tissues.

CO 2: Explain various complete blood picture parameters and mechanisms involved blood experiments

CO 3: Explain various methods, handling procedures in the estimation and analysis of various blood experiments

116T Communication Skills and Development

Students will able to Know

- CO 1:** Would learn to handle interpersonal relations & communicate effectively.
- CO 2:** It would help to comprehend the concept of communication.
- CO 3:** It would assist to convert the conceptual understanding of communication into everyday practice.
- CO 4:** Course would be useful to develop thought process that is imperative to develop interview skills.
- CO 5:** The course structure sharpens memory skills and other study skills, which are vital for academic excellence & management.
- CO 6:** Course with activities assists to bring out creativity and other latent talents with proper goal setting so that self- esteem gets enhanced. It is a good path for leadership skill.