

Learning Outcomes of the Course Plan

No.	Learning Outcomes
१	<p>Understanding and learning outcomes. Understanding the following principles: The basic principles of sciences :</p> <p>1.1 Chemistry, Biology, Organic Chemistry, Anatomy & Physiology.</p> <p>1.2 Pharmaceutical sciences principles that include: Physicochemical properties for different materials that is used to prepare drugs, products & cosmetics. And the properties of different dosage forms including new regulations to prepare drugs. Therapeutic & toxic properties of drugs including their mechanism of action, therapeutic use, contraindications, side effects & toxic material properties & their impact on health.</p> <p>1.2.2 Principles of biochemistry, biotechnology & their pharmaceutical applications.</p> <p>1.2.3 Kinetics principles & their application in therapeutic uses.</p> <p>1.2.4 Principles of different analytical principle & instrumental analysis techniques & procedures that are used in pharmaceutical industry, in addition to different analysis techniques.</p> <p>1.2.6 Principles of medicinal chemistry & drug design.</p> <p>1.2.7 Pharmaceutical principles of microbiology.</p> <p>1.2.8 Causes of different epidemic diseases, laboratory diagnosis, clinical manifestations & the use of immunology in treatment.</p> <p>1.2.9 Marketing principles.</p> <p>1.2.10 Rules & regulations of pharmacy practice & their ethics.</p> <p>1.2.11 Principles of pharmacognosy, phytochemistry & alternative medicine therapy.</p>
२	<p>Mental Skills</p> <p>2.1 Pharmaceutical knowledge application in the formulation, manufacturing of safe and effective drugs in addition to dealing with new regulations to prepare drugs.</p> <p>2.2 Discrimination and adjusting all drug interactions (Physiochemical, drug food and drug-drug).</p> <p>2.3 Problem analysis and risk management that is related to drugs and other chemicals that have poisoning effects.</p> <p>2.4 Collect, evaluation and interpretation of pharmaceutical data and active communication within all segments of society using different skills.</p> <p>2.5 Selection of appropriate methods for isolation, purification, determination and calibration of active substances from their different sources.</p> <p>2.6 Using the principles of pharmaceutical economics to rationalize pharmaceutical treatments and improving its economic efficiency.</p>
३	<p>Professional and Practical Skills</p> <p>3.1 Using of terms, abbreviations and appropriate symbols in practicing the pharmaceutical science.</p>

	<p>3.2 Manufacturing and control of the drugs and cosmetics preparations according to the rules of good manufacturing practice.</p> <p>3.3 The safe and effective handling of various chemicals, pharmaceutical and cosmetic preparations.</p> <p>3.4 Using of laboratory tools and equipments in a professional way.</p> <p>3.5 Working in chemical analysis, biological, toxin and inefficient and safe applicable research and services.</p> <p>3.6 Elicitation the therapeutic pharmaceutical and analytical plans, calculating doses and implementation in patient care.</p> <p>3.7 Evaluating and interpreting prescriptions and the results of laboratory and clinical tests.</p> <p>3.8 Selecting of medicines depending on the understanding of the etiology, pathology of various body tissues.</p> <p>3.9 Providing advice and guidance to members of the community and health care professionals with regard to security and rational use of medicines, dietary supplements and pharmaceuticals.</p>
ε	<p>General Skills</p> <p>4.1 Communicating with health professionals and other members of the community, directly or indirectly, with professionalism and flexibility.</p> <p>4.2 Working with systematic and organized time table (time management).</p> <p>4.3 Working effectively within a multidisciplinary health team.</p> <p>4.4 Owning a collection of knowledge and self-skills, continuous of scientific research and professional development.</p> <p>4.5 Using modern information technology different fields and scientific research.</p> <p>4.6 Communicating in English as well as Arabic language.</p> <p>4.7 Working within the framework of ethics and rules of job practicing that is in line with the social and cultural surroundings.</p>