

course	Description
Organic Chemistry	<p><b>Academic year/level:</b> first Year (1<sup>st</sup> &amp; 2<sup>nd</sup> semesters)</p> <p><b>Not available on the CD</b></p>
Organic Chemistry	<p><b>Academic year/level:</b> Second Year (1<sup>st</sup> &amp; 2<sup>nd</sup> semesters)</p> <p><b>Theoretical:</b> 3h /week <b>Practical:</b> 2.5 h /week <b>Total:</b> 5.5 h / week</p> <p>The prime objective of this course is to provide students with the basic knowledge in the field of mechanistic organic chemistry with overall view of the applicable basic synthetic methods.</p> <p>The course aims also to provide the students with information about the physical characters of different classes of organic compounds. This is profoundly helpful in solving problems in pharmaceutical industry.</p> <p>The course is aiming to give a chance for students to apply the acquired basic knowledge in organic chemistry in designing methods for drug synthesis.</p> <p>The course is aiming to help the student to acquire skills to give a proper nomenclature for organic compounds with special reference to drugs.</p> <p>The course includes practical tuition helping the student to identify organic compounds of different nature both chemically and by spectroscopic means.</p> <p>The course is intended for the students to acquire widespread information about various classes of organic compounds.</p>
Pharmaceutical Chemistry	<p>Third Year (1<sup>st</sup> &amp; 2<sup>nd</sup> semesters).</p> <p><b>Tutorial:</b> 2 lectures/week <b>Practical:</b> 2.5 hours/week</p> <p><b>Total:</b> 4.5 hours/week</p> <p>The course aims to provide the student with a structured introduction to the essentials of Pharmaceutical Chemistry. The main objective of this course is to provide the student with knowledge of different classes of chemotherapeutic agents including diagnostic agents and vitamins, their chemistry, properties and mechanism of action.</p> <p>The course aims also to acquire the students with the concept of targeted therapy included signal transduction inhibitors, antisense, monoclonal antibodies.</p>

	<p>The practical course is constructed to acquire the students the skills to determine the purity of the pharmaceutical chemicals according to the pharmacopeal standards and quantification of drugs in bulk and in different pharmaceutical forms.</p>
Pharmaceutical Chemistry.	<p>Fourth Year (first&amp; second semesters).  <b>Lectures:</b> 2 hours/week.      <b>Practical:</b> 2.5 hours/week.  <b>Total:</b>4.5 hours/week.</p> <p>The course is designed to assist fourth year students to gain the skills required to understand drugs as organic chemicals whose biological activities and toxicological properties are derived from their chemical structures, physicochemical properties and metabolic pathways.</p> <p>The course provides discussions of specific drug classes (see course contents) by relating the pharmacodynamic and pharmacokinetic properties to the chemistry of the drugs.</p> <p>This course aims also to acquire the students with the concept of structure based drug design including computer aided drug design (CADD).</p> <p>The practical part of the course is designed to assist the students to gain necessary skills for chemical quality control of some pharmaceuticals which belong to different therapeutic classes.</p> <p>To ensure the National Academic Reference Standards (NARS), the course is designed to qualify our graduates with the following skills and attributes.</p>
Pharmacy administration	<p>4<sup>th</sup> year (2<sup>nd</sup> semester)  <b>Lecture:</b> 2 hours per week      <b>Practical:</b> -      <b>Tutorial:</b> -  <b>Total:</b> 2 hours per week</p> <p>The course aims at providing students with an understanding of the major components of drug supply system: drug selection, procurement, distribution and use. The course also aims at providing the students with an understanding of the appropriate methods and techniques of drugs selection, distribution, handling, storing and disposal and aims at emphasizing the concept of quality assurance and importance of drug information system as well as principles of health economics.</p>