

**Fall semester**

**Medicinal Chemistry II**

<b>Course code</b>	PC710
<b>Programme(s) on which the course is given:</b>	Bachelor of pharmacy - PharmD Program
<b>Academic year:</b>	Level 4 – First semester
<b>Contact hours (credit hours):</b>	Lecture: 2 (2), Practical: 2 (1), Total: 4 (2+1)
<b>Academic year:</b>	Level 1 – Second semester
<b>Contact hours (credit hours):</b>	Lecture: 2 (2), Practical: 2 (1), Total: 4(2+1)

### **Overall Aims of Course:**

Upon successful completion of this course the students will demonstrate:

- Knowledge of the basic concepts of pharmaceutical chemistry effectively.
  - With the concentration on the molecular mechanism of the studied classes of compounds
  - Understand novel topics that are to be considered during the process of drug design
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- This course is tailored to assist the students to integrate the principles of Medicinal Chemistry, chemical structures of drugs, their structure activity relationships with the conceptual aspects of drug action at their target sites, regarding classes of drugs including the endocrine-related drugs (Diabetes, thyroid), steroidal drugs. The course also handles different classes of antimicrobials and antibiotics (natural and synthetic), anticancer therapies, beside other chemotherapeutic agents including antivirals, antifungals and antiparasitics.