

School of pharmacy

Department Medicinal Chemistry

Course title: Pharmaceutics 1

Credit (Theory or Practical): 2 Theory

Prerequisite: -

Course Lecturers: Dr Morad, Dr Faghihi, Dr Kiani

Responsible Lecturer: Dr Morad

Student responsibilities:

General student duties and expectations during the course, such as regular attendance in the classroom, completing assignments on time, studying the introduced resources, and actively participating in class programs.

Course Description:

At the end of this course, the learners are expected to be familiar with the history of pharmaceuticals, its evolution, the different stages of research and development of new pharmaceutical molecules, the status of pharmaceutical trends and the description of its duties in various departments, pharmaceutical prescriptions and its various departments, methods Naming of drugs, calculations in pharmacy, types of drug administration methods, types of pharmaceutical forms and their production methods in addition to biopharmaceutics and pharmacokinetic considerations of drugs and information sources and pharmaceutical reference books will be mastered.

- Course objectives:

- 1- Familiarity with the field of pharmacy and its history
- 2- Familiarity with pharmaceutical forms, preliminary calculations, prescription and how to use resources in pharmacy

Student Learning Objectives:

- 1- Getting to know the history of pharmaceuticals in Iran and the world
- 2- Familiarization of the student with the path of development to the supply of medicine to the pharmaceutical market
- 3- Getting to know the different ways of drug administration and pharmaceutical forms

- 4- Getting to know the prescription and its components and the difference between prescription and non-prescription (OTC) drugs.
- 5- Getting to know the principles of weighing and measuring and basic pharmaceutical calculations for making or prescribing medicine
- 6- Familiarity with primary and secondary sources and how to use these sources

Course title: Monday, 8-10 am

	Subject	Lecturer	Presentation method	Date
1	-The history of pharmacy and its evolution -Introducing the field of pharmacy and its various specialized trends, the field of pharmaceuticals and the design of pharmaceutical form	Dr. Morad	In person, powerpoint	29.Sep
2	The route of drug supply to the market (research and development)	Dr. Morad	In person, powerpoint	6.oct
3	Introducing Iran's pharmaceutical system and the generic plan, pharmaceutical education in Iran and the world, getting to know the job opportunities of pharmacists	Dr. Morad	In person, powerpoint	13.oct
4	Duties of a pharmacist in a pharmacy, the process of providing medicine, duties of a pharmacist in the industry and the state of the pharmaceutical industry, duties of a pharmacist in a hospital and other centers	Dr. Morad	In person, powerpoint	20.oct
5	Pharmaceutical reference books and widely used online resources & softwares in pharmacy	Dr. Morad	In person, powerpoint	27.oct
6	Familiarity with different naming systems of medicines including brand name and generic	Dr. Faghihi	In person, powerpoint	3.Nov
7	Pharmaceutical prescription and its specifications	Dr. Faghihi	In person, powerpoint	10.Nov
8	Types of weighing and measuring methods - errors and preliminary calculations in pharmaceuticals	Dr. Faghihi	In person, powerpoint	17.Nov
9	Mathematical calculations and its application in pharmaceutical prescriptions	Dr. Faghihi	In person, powerpoint	1.Dec

10	Introduction of methods of drug administration	Dr. Kiani	In person, powerpoint	8.Dec
11	Introduction of various dosage forms	Dr. Kiani	In person, powerpoint	15.Dec
12	Introduction of Novel drug delivery approaches	Dr. Kiani	In person, PowerPoint	22.Dec
13	Biopharmaceutic and pharmacokinetic considerations	Dr. Kiani	In person, PowerPoint	5. Jan

References:

- 1- Aulton's Pharmaceutics, latest edition
- 2- Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems, Loyd Allen, latest edition
- 3- Remington: The science and practice of pharmacy, latest edition
- 4- Recent articles

Notes:

- All classes will be held in Besarati (Eastern 7) street, North Shahrin Boulevard

The absence hours of a student should not exceed 4/17 in theoretical, 2/17 in practical and laboratorial. Otherwise, the score for that course or section will be considered as zero.

Note 1: allowed absences are accepted provided that students bring in documents for that and the related professor approves it. Acting against absences (either excused or not) will be the decision of the professor and agreement of the college.