

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
PHARMACEUTICAL CHEMISTRY II	PHA3214153	Spring Semester	3+0	3	5
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Prof.Dr. Mine YARIM YÜKSEL				
Name of Lecturer(s)	Prof.Dr. Mine YARIM YÜKSEL				
Assistant(s)					
Aim	To evaluate the structure-activity relationships, chemical structures, synthesis and analysis of the drugs effecting on central nervous system.				
Course Content	This course contains; General properties of the drugs effecting on central nervous system and general anesthetic drugs, Sedative and hypnotics, Tranquilizers, Neuroleptics, Antidepressants: Tricyclics, Antidepressants: MAO Inhibitors, Antidepressants: Serotonin reuptake inhibitors, Psychomimetics, analeptics, Skeletal muscle relaxants, Antiepileptics, Narcotic analgesics, Antitussive-expectorants, Nonnarcotic analgesics, Local anesthetics.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
At the end of this course, the students; 1. will be able to evaluate the drugs effecting on central nervous system. 1.1. list the structures and synthesis of the general anesthetic drugs. 1.2. examine the structure-activity relationships of sedative-hypnotic drugs. 1.3. explain the synthesis and analyses of sedative-hypnotic drugs. 2. will be able to debate the psychopharmaceutical drugs. 2.1. examine the structure-activity relationships of tranquilizers. 2.2. debate the structure-activity relationships of neuroleptics. 2.3. report the chemical structures, synthesis and analysis of the tranquilizers and neuroleptics. 3. will be able to classify the antidepressant drugs. 3.1. explain the structure-activity relationships and chemical properties of tricyclic antidepressant drugs. 3.2. assess the structure-activity relationships and chemical properties of MAO inhibitory antidepressant drugs. 3.3. explain the structure-activity relationships and chemical properties of serotonin reuptake inhibitory antidepressant drugs. 4. will be able to compare the structure-activity relationships and chemical properties of antiepileptics and skeletal muscle relaxants. 4.1. explain the structure-activity relationships and chemical properties of skeletal muscle relaxants. 4.2. summarize the structure-activity relationships and chemical properties of antiepileptics. 5. will be able to discuss the structure-activity relationships of analgesics. 5.1. debate the structure-activity relationships and chemical properties of narcotic analgesics. 5.2. evaluate the structure-activity relationships and chemical properties of nonnarcotic analgesics. 5.3. explain the structure-activity relationships and chemical properties of local anesthetics.			19, 9	A	
Teaching Methods	19: Brainstorming Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	General properties of the drugs effecting on central nervous system and general anesthetic drugs	Reading the references			
2	Sedative and hypnotics	Reading the references			
3	Tranquilizers	Reading the references			
4	Neuroleptics	Reading the references			
5	Antidepressants: Tricyclics	Reading the references			
6	Antidepressants: MAO Inhibitors	Reading the references			
7	Antidepressants: Serotonin reuptake inhibitors	Reading the references			
8	Psychomimetics, analeptics	Reading the references			
9	Skeletal muscle relaxants	Reading the references			
10	Antiepileptics	Reading the references			
11	Narcotic analgesics	Reading the references			
12	Antitussive-expectorants	Reading the references			
13	Nonnarcotic analgesics	Reading the references			
14	Local anesthetics	Reading the references			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources

Pharmaceutical Chemistry II notes will be given to the students.