

School of Pharmacy / School of Pharmacy (English)

2024 - 2025 Academic Year

PHARMACEUTICAL CHEMISTRY LAB. I

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
PHARMACEUTICAL CHEMISTRY LAB. I	PHA3114146	Fall Semester	0+3	1,5	3
Prerequisites Courses	ORGANİK KİMYA II				
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	Using materials and methods in the synthesis of drug molecules and thin layer chromatography				
Course Content	This course contains; Principles of Pharmaceutical Chemistry Laboratory Studies, The tools and equipment used in organic syntheses, The methods used in organic syntheses: mixing, heating, cooling and drying ,Separation and purification methods: distillation, crystallization, extraction, Determination of melting point, chromatographic methods, efficiency and accountability of the reaction, The synthesis of some organic and pharmaceutical active substances ,The synthesis of some organic and pharmaceutical active substances, The synthesis of some organic and pharmaceutical active substances, The synthesis of some organic and pharmaceutical active substances, The synthesis of some organic and pharmaceutical active substances, The synthesis of some organic and pharmaceutical active substances, The synthesis of some organic and pharmaceutical active substances, The synthesis of some organic and pharmaceutical active substances, The synthesis of some organic and pharmaceutical active substances.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
At the end of this course, students; 3.1. will be able to apply the distillation, crystallization, melting point 3.2. determine the necessary equipment for the identification of the synthesized compound 1. will be able to use the necessary equipment for synthesis. 1.1. describe the necessary equipment for synthesis. 1.2. use the necessary equipment for synthesis. 2. will be able to apply the necessary methods for synthesis. 2.1. determine the necessary methods for synthesis. 2.2. adapt the necessary methods for synthesis. 3. will be able to apply the identification methods of the synthesized compounds			12, 14, 16, 17, 5, 9	A	
Teaching Methods	12: Problem Solving Method, 14: Self Study Method, 16: Question - Answer Technique, 17: Experimental Technique, 5: Cooperative Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Principles of Pharmaceutical Chemistry Laboratory Studies	Reading the references			
2	The tools and equipment used in organic syntheses	Reading the references			
3	The methods used in organic syntheses: mixing, heating, cooling and drying	Reading the references			
4	Separation and purification methods: distillation, crystallization, extraction	Reading the references			
5	Determination of melting point, chromatographic methods, efficiency and accountability of the reaction	Reading the references			
6	The synthesis of some organic and pharmaceutical active substances	Reading the references			
7	The synthesis of some organic and pharmaceutical active substances	Reading the references			
8	The synthesis of some organic and pharmaceutical active substances	Reading the references			
9	The synthesis of some organic and pharmaceutical active substances	Reading the references			
10	The synthesis of some organic and pharmaceutical active substances	Reading the references			
11	The synthesis of some organic and pharmaceutical active substances	Reading the references			
12	The synthesis of some organic and pharmaceutical active substances	Reading the references			
13	The synthesis of some organic and pharmaceutical active substances	Reading the references			
14	The synthesis of some organic and pharmaceutical active substances	Reading the references			
Evaluation Methods		Weight(%)			
Midterm Exam		60			
General Exam		40			

Resources

The laboratory notes will be given to the students.