

School of Pharmacy / School of Pharmacy (English)

2024 - 2025 Academic Year

PHARMACOLOGY III

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
PHARMACOLOGY III	PHA3214159	Spring Semester	2+0	2	4
Prerequisites Courses					
Recommended Elective Courses	none				
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Çağlar MACİT				
Name of Lecturer(s)	Assist.Prof. Çağlar MACİT				
Assistant(s)	none				
Aim	To evaluate the properties of central nervous system drugs, analgesics, endocrine system drugs, hypothalamus and pituitary hormones, and antiemetics and antidiarrheics.				
Course Content	This course contains; Introduction to central nervous system, Hypnotics and sedatives, Antidepressant and antipsychotic drugs, General and local anesthetic drugs, Opioid analgesics and NSAIDs, Antiepileptic drugs and drugs used in parkinson treatment, Introduction to endocrine system and antithyroid drugs, PTH, vitamin D and Calcitonine, Insulin and oral antidiabetic drugs, Hypothalamus hormones, Estrogen, progesterin and androgens, Corticosteroid hormones, Antiemetic and antidiarrheics, Review for the exam.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Learn the central nervous system			16, 9	C	
2. Learn and know hypnotics and sedatives.			16, 9	C	
2.1. Interpret the drug interactions and mechanisms of action of hypnotics and sedatives.			16, 9	C	
3. Learn the effects of alcohols and their metabolites.			16, 9	C	
4. Learn analgesic and anesthetic drugs.			16, 9	C	
4.1. Interpret the mechanisms of action and drug interactions of these drugs.			16, 9	C	
5. Know the mechanism of action of drugs used in endocrine system diseases.			16, 9	C	
5.1. Know the mechanism of action of drugs used in diabetes.			16, 9	C	
5.2. Know the mechanism of action of drugs used in thyroid disease.			16, 9	C	
6. Learn the hormones of the hypothalamus and pituitary gland.			16, 9	C	
7. Know the mechanisms of antiemetics and antidiarrheal drugs.			16, 9	C	
Teaching Methods	16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	C: Multiple-Choice Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction to central nervous system	1, 2, 3			
2	Hypnotics and sedatives	1, 2, 3			
3	Antidepressant and antipsychotic drugs	1, 2, 3			
4	General and local anesthetic drugs	1, 2, 3			
5	Opioid analgesics and NSAIDs	1, 2, 3			
6	Antiepileptic drugs and drugs used in parkinson treatment	1, 2, 3			
7	Introduction to endocrine system and antithyroid drugs	1, 2, 3			
8	PTH, vitamin D and Calcitonine	1, 2, 3			
9	Insulin and oral antidiabetic drugs	1, 2, 3			
10	Hypothalamus hormones	1, 2, 3			
11	Estrogen, progesterin and androgens	1, 2, 3			
12	Corticosteroid hormones	1, 2, 3			
13	Antiemetic and antidiarrheics	1, 2, 3			
14	Review for the exam	1, 2, 3			
Evaluation Methods			Weight(%)		
Midterm Exam			40		
General Exam			60		

Resources

1.Kayaalp, SO: Rasyonel Tedavi Yönünden Tıbbi Farmakoloji, Ankara. 2.Hardman JG, Limbird LE, Eds.: Goodman and Gilman's The Pharmacological Basis of Therapeutics, New York. 3.Katzung & Trevor: Farmakoloji, Ankara.1, 2, 3, Lecturer notes