

**School of Pharmacy / School of Pharmacy (English)**

**2024 - 2025 Academic Year**

**PHARMACOLOGY II**

**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
PHARMACOLOGY II	PHA3114141	Fall Semester	2+0	2	4
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>	none				
<b>Language of Instruction</b>	English				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Assist.Prof. Çağlar MACİT				
<b>Name of Lecturer(s)</b>	Assist.Prof. Çağlar MACİT				
<b>Assistant(s)</b>	none				
<b>Aim</b>	To teach the student about autacoids and their importance, Autonomic Nervous System and its drugs, Cardiovascular System diseases and the drugs used in their treatment, and Respiratory system diseases and the drugs used in their treatment.				
<b>Course Content</b>	This course contains; Introduction to autacoids, histamine and antihistaminics, Endotheline and NO/Arahidonic acid metabolites, Serotonin and Renin-Angiotensin-Kinin, Introduction to autonomic nervous system and parasympathomimetic drugs, Parasympatholytic drugs, Sympathomimetic drugs and ganglion blockers, Antihypertensive drugs and diuretics I, Antihypertensive drugs and diuretics II, Congestive heart failure and antianginal drugs, Hypolipidemic agents, Anticoagulants and arrhythmics, Antitussives, mucolytics and expectorants, Bronchodilators, Drugs used in electrolite and acid-base imbalance disorders.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
1. Know the term of autacoid.			16, 9	C	
1.1. Define histamine and antihistaminics.			16, 9	C	
1.2. Know the endothelin, nitric oxide, Arachidonic acid metabolites			16, 9	C	
1.3. Know the serotonin, renin angiotensin, kinins.			16, 9	C	
2. Know the autonomic nervous system.			16, 9	C	
2.1. Summarize the pharmacokinetics, pharmacodynamics, side effects, contraindications and drug interactions of the autonomic nervous system drugs.			16, 9	C	
2.2. Interpret the mechanisms of autonomic nervous system drugs.			16, 9	C	
3. Discuss the pharmacokinetics, pharmacodynamics, side effect profiles and drug interactions of cardiovascular system drugs.			16, 9	C	
3.1. Interpret the mechanism of cardiovascular system drugs.			16, 9	C	
3.2. Give examples to drugs used in cardiovascular system diseases.			16, 9	C	
4. Discuss the pharmacokinetics, pharmacodynamics, side effect profiles and drug interactions of respiratory system drugs.			16, 9	C	
4.1. Interpret the mechanism of respiratory system drugs.			16, 9	C	
4.2. Give examples to drugs used in cardiovascular system diseases.			16, 9	C	
<b>Teaching Methods</b>	16: Question - Answer Technique, 9: Lecture Method				
<b>Assessment Methods</b>	C: Multiple-Choice Exam				
<b>Lecture Schedule</b>					
<b>Sequenc e</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Introduction to autacoids, histamine and antihistaminics	The student should study the topics communicated to students and recommended resources prior to the lesson.			
2	Endotheline and NO/Arahidonic acid metabolites	The student should study the topics communicated to students and recommended resources prior to the lesson.			
3	Serotonin and Renin-Angiotensin-Kinin	The student should study the topics communicated to students and recommended resources prior to the lesson.			
4	Introduction to autonomic nervous system and parasympathomimetic drugs	The student should study the topics communicated to students and recommended resources prior to the lesson.			
5	Parasympatholytic drugs	The student should study the topics communicated to students and recommended resources prior to the lesson.			
6	Sympathomimetic drugs and ganglion blockers	The student should study the topics communicated to students and recommended resources prior to the lesson.			
7	Antihypertensive drugs and diuretics I	The student should study the topics communicated to students and recommended resources prior to the lesson.			
8	Antihypertensive drugs and diuretics II	The student should study the topics communicated to students and recommended resources prior to the lesson.			
9	Congestive heart failure and antianginal drugs	The student should study the topics communicated to students and recommended resources prior to the lesson.			
10	Hypolipidemic agents	The student should study the topics communicated to students and recommended resources prior to the lesson.			
11	Anticoagulants and arrhythmics	The student should study the topics communicated to students and recommended resources prior to the lesson.			
12	Antitussives, mucolytics and expectorants	The student should study the topics communicated to students and recommended resources prior to the lesson.			
13	Bronchodilators	The student should study the topics communicated to students and recommended resources prior to the lesson.			
14	Drugs used in electrolite and acid-base imbalance disorders	The student should study the topics communicated to students and recommended resources prior to the lesson.			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

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**Resources**

- 1.Kayaalp, SO: Rasyonel Tedavi Yönünden Tibbi 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