

**FTR235 - Pharmacology**

Course Name	Code	Term	Theory (hours/week)	Application (hours/week)	Laboratory (hours/week)	ECTS
Pharmacology	FTR 235	3. semester/1.term fall	2	-	-	4
Prerequisites	-					
Course language	Turkish					
Course type	Elective					
Learning and teaching strategies	Lecture					
Instructor (s)						
Course objective(Aim of course)	The aim of the course is to teach the students the basic mechanism of pharmacological agents, characteristics and side effects of agents affecting organ systems.					
Learning outcomes	1. Defines basic concepts for pharmacology and toxicology. 2. Learns mechanism of and biological responses to pharmacological agents. 3. Evaluates pharmacodynamic and pharmacokinetic characteristics and side effects of agents affecting organ systems.					
References	-S. Oğuz Kayaalp, editör. Akılçıl tedavi yönünden tıbbi farmakoloji. Ankara : Pelikan, 2012 -İsmet Dökmeci, A. Handan Dökmeci. Sağlık Bilimleri Fakülteri ve Sağlık Yüksekokulları için farmakoloji : kısaltılmış temel bilgiler. İstanbul : Nobel Tıp Kitapevleri, 2014					

**Course outline weekly:**

Weeks	Topics
1. Week	Pharmacokinetics, pharmacodynamics
2. Week	Drugs for autonomic nervous system,
3. Week	Autacoids
4. Week	Cardiovascular pharmacology
5. Week	Respiratory pharmacology
6. Week	Drugs for central nervous system: antiepileptic; opioid analgesics and antagonists
7. Week	Drugs for central nervous system: Antidepressants, antipsychotics, drugs for neurodegenerative diseases
8. Week	Mid-term Exam
9. Week	Drugs for central nervous system: sedative hypnotics, local anesthetics, muscle relaxants, general anesthetics
10. Week	Drug addiction and abuse
11. Week	Endocrine system drugs: pancreatic hormones and antidiabetic drugs
12. Week	Endocrine system drugs: drugs affecting lipid metabolism
13. Week	Endocrine system drugs: corticosteroids-mineraocorticosteroids
14. Week	Drugs affecting bones mineral homeostasis, Chemotherapeutics
15. Week	An overview

**ECTS (Student Work Load Table)**

Activities	Number	Duration	Total Work Load
Course Duration (X14 )	14	2	28
Laboratory			
Practice			
Field Study			
Study Time Of Outside Of Class (Pre-Study, Practice, Etc.)	14	3	42
Presentations (Video shoot/Poster preparation/Oral presentation, Etc.)			
Seminars			
Project			
Case study			
Role playing, Dramatization			
Writing articles, Critique			
Time To Prepare For Midterm Exam	1	14	14
Final Exam Preparation Time	1	16	16
<b>Total Work Load ( hour) / 25(s)</b>	100 / 25		
<b>ECTS</b>	4		

### Evaluation System

Mid-Term Studies	Number	Contribution
Midterm exams	1	% 100
Quiz		
Laboratory		
Practice		
Field Study		
Course Internship (If There Is)		
Homework's		
Presentation and Seminar		
Project		
Other evaluation methods		
<b>Total Time To Activities For Midterm</b>		100
<b>Final works</b>		
Final	1	% 100
Homework		
Practice		
Laboratory		
<b>Total Time To Activities For Midterm</b>		100
Contribution Of Midterm Studies On Grades		% 40
Contribution Of Final Exam On Grades		% 60
<b>Total</b>		100

### The relationship between learning outcomes and the program qualifications of the courses

Program Qualifications	Learning outcomes		
	L.O.1	L.O. 2	L.O.3
1-Acquire proficient infrastructure related to the field of Physiotherapy and Rehabilitation, gain the ability to use theoretical and practical knowledge and skills in this field.	5	5	5
2-Identify, define the factors affecting health and gain problem-solving skill by using the information they have; plan and implement a treatment and exercise program with appropriate evidence-based methods and new techniques.	5	5	5
3-Gain the ability to use information technologies effectively, as well as the ability to select and use modern tools, techniques and agents necessary for physiotherapy and rehabilitation applications.			
4-Design individual and multidisciplinary research, keep records, prepare reports, analyze and interpret results for quality service and research in health sciences.			
5-They conduct a literature search to access the information by using evidence-based databases and information sources.			
6-Gain autonomy in interdisciplinary and individual studies, ability to work effectively and take responsibility and awareness of the universal and social effects of their professional practice.			
7-Adopt life-long learning; contribute to quality improvement, field-related training and introductory programs and exhibit their professional behavior at national and international level.			
8-Have deontological and ethical awareness in professional researches and applications.			

Contribution to the level of proficiency: 1. Lowest, 2. Low / Medium, 3. Average, 4. High, 5. Excellent