

School of Pharmacy / School of Pharmacy (English)

2024 - 2025 Academic Year

PHYTOTHERAPEUTICS

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
PHYTOTHERAPEUTICS	PHA4214875	Spring Semester	2+0	2	3
Prerequisites Courses	FARMAKOLOJİ III; FARMAKOGNOZİ III				
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Ayşe Esra KARADAĞ				
Name of Lecturer(s)	Assist.Prof. Ayşe Esra KARADAĞ				
Assistant(s)					
Aim	The aim of this course is to provide the information of the phytotherapeutic preparations that used for the treatment of various diseases, as immunostimulant/ immunomodulator and for the amelioration of geriatric problems.				
Course Content	This course contains; Introduction and basic concepts of phytotherapeutics,CNS active phytotherapeutics 1,CNS active phytotherapeutics 2,Cardiovascular system active phytotherapeutics 1,Cardiovascular system active phytotherapeutics 2,Phytotherapeutics used in the treatment of respiratory system ailments,Phytotherapeutics used in the treatment of GI system diseases 1,Phytotherapeutics used in the treatment of GI system diseases 2,Phytotherapeutics used in the treatment of urinary tract ailments,Phytotherapeutics used in the treatment of gynecological ailments,Phytotherapeutics used in the treatment of dermal and connective tissue ailments,Phytotherapeutics used in the treatment of rheumatoid arthritis and degenerative joint diseases,Adaptogenic and immunomodulator phytotherapeutics,Potential drug and food interactions of phytotherapeutics.				
Course Learning Outcomes				Teaching Methods	Assessment Methods
1. Classify the active substances and therapeutic effects of phytotherapeutics.				10, 16, 9	A, D, E
1.1. Explain the CNS active phytotherapeutics.				10, 16, 9	A, D, E
1.2. Recognize the active compounds of phytotherapeutics used in the treatment of GI system diseases.				10, 16, 9	A, D, E
2. Explain the mechanism of action of phytotherapeutics.				10, 16, 9	A, D, E
2.1. Define the action of phytotherapeutics acting on the cardiovascular system.				10, 16, 9	A, D, E
2.2. Explain the adaptogenic effect of phytotherapeutics.				10, 16, 9	A, D, E
3. Describe the interactions of phytotherapeutics with drugs and food.				10, 16, 9	A, D, E
3.1. Explain the effect of active compounds of phytotherapeutics on the drug metabolizing enzyme systems.				10, 16, 9	A, D, E
3.2. Summarize the effect of phytotherapeutics on the bioavailability of various drugs.				10, 16, 9	A, D, E
Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, D: Oral Exam, E: Homework				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction and basic concepts of phytotherapeutics	1,2,3,4,5			
2	CNS active phytotherapeutics 1	1,2,3,4,5			
3	CNS active phytotherapeutics 2	1,2,3,4,5			
4	Cardiovascular system active phytotherapeutics 1	1,2,3,4,5			
5	Cardiovascular system active phytotherapeutics 2	1,2,3,4,5			
6	Phytotherapeutics used in the treatment of respiratory system ailments	1,2,3,4,5			
7	Phytotherapeutics used in the treatment of GI system diseases 1	1,2,3,4,5			
8	Phytotherapeutics used in the treatment of GI system diseases 2	1,2,3,4,5			
9	Phytotherapeutics used in the treatment of urinary tract ailments	1,2,3,4,5			
10	Phytotherapeutics used in the treatment of gynecological ailments	1,2,3,4,5			
11	Phytotherapeutics used in the treatment of dermal and connective tissue ailments	1,2,3,4,5			
12	Phytotherapeutics used in the treatment of rheumatoid arthritis and degenerative joint diseases	1,2,3,4,5			
13	Adaptogenic and immunomodulator phytotherapeutics	1,2,3,4,5			
14	Potential drug and food interactions of phytotherapeutics	1,2,3,4,5			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources

- 1-Phytotherapeutics lecture notes will be provided to the students.
- 2- Rational Phytotherapy, A Reference Guide for Physicians and Pharmacists, V. Schulz, R. Hansel, M. Blumenhtal, V. E. Tyler, Springer-Verlag, 2004
- 3- ESCOP Monographs, The Scientific Foundation for Herbal Medicinal Products, Thieme, 2003
- 4- Herbal Drugs and Phytopharmaceuticals, M. Wichtl, Medpharm Scientific Publishers, 2004
- 5- Stockley's herbal medicine interactions.Williamson, E., Driver, S., Baxter. K., Pharmaceutical Press, UK, 2009.