School of Pharmacy / School of Pharmacy (English) 2024 - 2025 Academic Year PHARMACEUTICAL BOTANY **Syllabus**

Course F	Description								
Course Description Name Code					Semester	T+A Hour	Credit	ECTS	
PHARMACEUTICAL BOTANY PHA2:				3	Spring Semester	3+0	3	4	
Prince Durant Prince Pr				J	Spring Semester	3+0	<u> </u>		
Recommended Elective Courses									
	Language of Instruction English								
	se Level First Cycle (Bachelor's Degree)								
	se Type Required								
	lame of Lecturer(s) Assist.Prof. Şule Nur KARAVUŞ Assist.Prof. Zeynep Büşra ERARSLAN, Assist.Prof. Şule Nur KARAVUŞ								
	. ,	ASSIST.Pror. Zeynep Buşra ERARSL	Şuie	NUF KARAVUŞ					
Assistant(s) To introduce the systematic classification a							محامنا امسم		
Aim	compounds or medicinal plants.							•	
Course C	This course contains; Plant cells and properties, Morphological features of plant tissues, root, stem and leaves, Morphological features of flowers, fruits and seeds, History of Pharmaceutical Botany, Systematic classification of medicinal plants, Naming and identification plants and drugs, Flora of Turkey, herbariums, divisions of plant kingdom ,Bacteriophyta, Cyanophyta, Phycophyta, Mycophyta, Bryophyta, Pteridophyta, Gymnospermae: Cycadaceae, Ginkgoaceae, Coniferae, Ephedraceae, Angiospermae: Poaceae, Liliaceae, Orchidaceae, Piperaceae, Fagaceae, Ranunculaecae, Angiospermae: Lauraceae, Papaveraceae, Brassiceae, Rosaceae, Leguminosae,, Angiospermae: Rutaceae, Malvaceae, Apiaceae, Angiospermae: Lamiaceae, Asteraceae, Solanaceae, Geographical distribution and trading of natural medicinal plants of Turkey, cultivation of medicinal plants and drug stabilization, Properties of medicinal, toxic and economically important plants.								
Course Learning Outcomes						Teaching Methods		essment ethods	
Characterize plant cells and tissues.						10, 16, 9		Α	
1.1. Defir	ne the characteristic feature	es of plant cells.				10, 16, 9		Α	
1.2. Characterize various plant tissues.						10, 16, 9		Α	
1.3. Recognize the characteristic features of flowers, fruits and seeds of plants.						10, 16, 9		Α	
Perform systematic classification of plant species						10, 16, 9		Α	
2.1. Carry-out classification of plant species.						10, 16, 9		Α	
2.2. Describe the naming of plant species.						10, 16, 9		Α	
2.3. Identify plant species.						10, 16, 9		Α	
Successfully differentiate the critical features of medicinal plants.						10, 16, 9		Α	
3.1. Recognize pharmaceutically important medicinal plants.						10, 16, 9		A	
3.2. Recognize important plant families and their features.						10, 16, 9		Α	
3.3. Describe the geographical distribution and trading of medicinal plants.						10, 16, 9		Α	
Teaching Methods 10: Discussion Method, 16: Question - Answer Technique, 9: Lecture Method									
Assessment Methods A: Traditional Written Exam									
	Schedule	7 ii Fradicondi Frincon Exam							
Sequenc e					Preliminary Preparation				
1	Plant cells and properties				1, 2				
2	Morphological features of plant tissues, root, stem and leaves			-	1,2				
3	Morphological features of flowers, fruits and seeds				1, 2				
4	History of Pharmaceutical Botany, Systematic classification of medicinal plants			_	1, 2				
5	Naming and identification of plants and drugs, Flora of Turkey,				1, 2				
6	herbariums,divisions of plant kingdom Bacteriophyta, Cyanophyta, Phycophyta				1, 2				
7	Mycophyta, Bryophyta, Pteridophyta			_	1, 2				
8	Symnospermae: Cycadaceae, Ginkgoaceae, Coniferae, Ephedraceae				1, 2				
9	Angiospermae: Poaceae, Liliaceae, Orchidaceae, Piperaceae, Fagaceae,Ranunculaecae				1, 2				
10	Angiospermae: Lauraceae, Papaveraceae, Brassiceae, Rosaceae, Leguminosae,			ae,	1, 2				
11	Angiospermae: Rutaceae, Malvaceae, Apiaceae				1, 2				
12	Angiospermae: Lamiaceae, Asteraceae, Solanaceae				1, 2				
13	Geographical distribution and trading of natural medicinal plants of Turkey, cultivation of medicinal plants and drug stabilization				1, 2				
14	1	exic and economically important pla	nts		1, 2				
Evaluation Methods				Weight(%)					
Midterm Exam					weight(%) 40				
General Exam					60				
General Exam				<u> </u> UU					

Resources

1.Ders Notları
2. Glimn-Lacy, J. and Kaufman, P.B. (2005). Botany Illustrated: introduction to plants, major groups, flowering plant families. NY: Springer, New York.