Course Syllabus

Code - Course Title	**ECZ239 - Pharmaceutical Botany II**
Course Type	III. SEMESTER
Laboratory + Practice	4+1
ECTS	**5.5**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. YAVUZ BÜLENT KÖSE

Mode of Delivery	The mode of delivery of this course is Face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course.
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Dicotyledones: Apetalae; Casuarinaceae, Piperaceae, Salicaceae, Juglandaceae, Corylaceae, Betulaceae, Fagaceae, Moraceae, Cannabinaceae, Urticaceae, Santalaceae, Loranthaceae- Introduction to Microscope, Free plant cell, Plant cell in tissue form.	
Week - 2		Aristolochiaceae, Rafflesiaceae Polygonaceae, Chenopodiaceae, Nyctaginaceae, Phytoloccaceae, Portulaccaceae, Caryophyllaceae,Dialypetalae: Nymphaeaceae- Types of amylum	
Week - 3		Ranunculaceae Berberidaceae, Menispermaceae, Magnoliaceae, Myristicaceae, Monimiaceae, Lauraceae- Crystals	
Week - 4		Papaveraceae, Fumariaceae Capparaceae, Brassicaceae, Sarraceniaceae, Nepenthaceae, Droseraceae, Crassulaceae, Grossulariaceae, Hamamelidaceae, Platanaceae, Rosaceae- Supportive tissue, Collenchyma, Sclerenchyma	
Week - 5		Fabaceae, Cistaceae, Geraniaceae, Linaceae, Erythroxylaceae, Zygophyllaceae, Rutaceae, Simaroubaceae, Burseraceae, Meliaceae, Polygalaceae, Euphorbiaceae, Buxaceae, Anacardiaceae- Epiderma, Stoma	
Week - 6		Aquifoliaceae, Salvadoraceae, Aceraceae, Hippocastanaceae, Sapindaceae, Rhamnaceae, Vitaceae, Tiliaceae, Malvaceae, Bombacaceae, Sterculiaceae, Actinidiaceae, Theaceae, Hypericaceae, Dipterocarpaceae, Flacourtiaceae, Passifloraceae, Caricaceae, Datiscaceae, Cactaceae-Feathers	
Week - 7		Thymelaeaceae, Elaeagnaceae Lythraceae, Punicaceae, Combretaceae, Myrtaceae, Araliaceae, Apiaceae, Cornaceae- Root and Stem Powder Drug Anatomy	
Week - 8		Sympetalae: Ericaceae, Primulaceae, Sapotaceae, Ebenaceae, Styracaceae, Oleaceae, Gentianaceae, Apocynaceae-Cortex Powder Drug Anatomy	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 9		Asclepiadaceae, Convolvulaceae, Cuscutaceae, Boraginaceae, Verbenaceae- Leaf Powder Drog Anatomy	
Week - 10		Lamiaceae, Solanaceae-Flower Powder Drug Anatomy	
Week - 11		Scrophulariaceae, Acanthaceae, Pedaliaceae, Orobanchaceae, Plantaginaceae, Rubiaceae-Flower Powder Drug Anatomy	
Week - 12		Caprifoliaceae, Valerianaceae, Dipsacaceae, Cucurbitaceae, Campanulaceae Lobeliaceae, Asteraceae-Fruit Powder Drug Anatomy	
Week - 13		Campanulaceae Lobeliaceae, Asteraceae-Seed Powder Drug Anatomy	
Week - 14		Campanulaceae Lobeliaceae, Asteraceae-Seed Powder Drug Anatomy	

Learning Outcomes

#	Learning Outcome
1	Explain Casuarinaceae, Piperaceae, Salicaceae, Juglandaceae, Corylaceae, Betulaceae, Fagaceae, Moraceae, Cannabinaceae, Urticaceae, Santalaceae, Loranthaceae families.
2	Explain Aristolochiaceae, Rafflesiaceae Polygonaceae, Chenopodiaceae, Nyctaginaceae, Phytoloccaceae, Portulaccaceae, Caryophyllaceae,Dialypetalae: Nymphaeaceae families.
3	Explain Ranunculaceae Berberidaceae, Menispermaceae, Magnoliaceae, Myristicaceae, Monimiaceae, Lauraceae families.
4	Explain Papaveraceae, Fumariaceae Capparaceae, Brassicaceae, Sarraceniaceae, Nepenthaceae, Droseraceae, Crassulaceae, Grossulariaceae, Hamamelidaceae, Platanaceae, Rosaceae families.
5	Explain Fabaceae, Cistaceae, Geraniaceae, Linaceae, Erythroxylaceae, Zygophyllaceae, Rutaceae, Simaroubaceae, Burseraceae, Meliaceae, Polygalaceae, Euphorbiaceae, Buxaceae, Anacardiaceae families.
6	Explain Aquifoliaceae, Salvadoraceae, Aceraceae, Hippocastanaceae, Sapindaceae, Rhamnaceae, Vitaceae, Tiliaceae, Malvaceae, Bombacaceae, Sterculiaceae, Actinidiaceae, Theaceae, Hypericaceae, Dipterocarpaceae, Flacourtiaceae, Passifloraceae, Caricaceae, Datiscaceae, Cactaceae families.
7	Explain Thymelaeaceae, Elaeagnaceae Lythraceae, Punicaceae, Combretaceae, Myrtaceae, Araliaceae, Apiaceae, Cornaceae families.
8	Explain Sympetalae: Ericaceae, Primulaceae, Sapotaceae, Ebenaceae, Styracaceae, Oleaceae, Gentianaceae, Apocynaceae families.
9	Explain Asclepiadaceae, Convolvulaceae, Cuscutaceae, Boraginaceae, Verbenaceae families.
10	Explain Lamiaceae, Solanaceae families.
11	Explain Scrophulariaceae, Acanthaceae, Pedaliaceae, Orobanchaceae, Plantaginaceae, Rubiaceae families.
12	Explain Caprifoliaceae, Valerianaceae, Dipsacaceae, Cucurbitaceae, Campanulaceae Lobeliaceae, Asteraceae families.
13	Be able to use a microscope and prepare slides.
14	Explain the free and tissue form of the plant cell.
15	Explain the supporting tissue.
16	Explain the types of spare starch.

Learning Outcomes

#	Learning Outcome
17	Be able to explain crystals.
18	Explain epidermis and stoma.
19	Be able to explain feathers.
20	Be able to explain the plant kingdom.
21	Explain the Anatomy of Root and Stem Powder Drug.
22	Explain the Anatomy of Cortex Powder Drug.
23	Explain the Anatomy of Leaf Powder Drug.
24	Explain the Anatomy of Flower Dust Drug.
25	Explain the Anatomy of Fruit Powder Drug.
26	Explain the Anatomy of Seed Powder Drug.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.