Course Syllabus

Code - Course Title	**FBT616 - Advanced Plant Anatomy**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. SEVİM KÜÇÜK

Mode of Delivery	Face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There are not any recommended optional programme components.
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Definitions, Internal Morphology (Internal Organography), Plant Cell, Cell Wall, Passages and Types, Plastids, Ergastic Substances, Intercellular Spaces	
Week - 2		Plant Tissues, Classification of Tissues, Meristematic Tissues, Continuous Tissues: 1. Protective Tissue 2. Parenchymatic Tissue 3. Supportive Tissue (Scleranchyma and Collenchyma), 4. Conductive Tissue, 5. Secretory Tissue, Structures of different tissues	
Week - 3		Origin and life span of epidermis, location, structure and classification of stomata in plants, location and types of trichomes in plants	
Week - 4		Structures and secretion system where secondary metabolites are formed	
Week - 5		Location, structure and classification of parenchyma in plants, Location, origin and types of collenchyma in plants, Location, structure and types of sclerenchyma in plants	
Week - 6		The location of sclereids in plants, their structure, classification, life span and function, the location and elements of xylem in plants, the classification of xylem; Primary xylem, Secondary xylem	
Week - 7		The place of phloem in the plant, its life span and structure, Classification of phloem; Primary phloem, Secondary phloem. Examination of the anatomical structures of powder drugs	
Week - 8		Gymnosperm wood, Angiosperm wood	
Week - 9		Anatomical structures of plant parts belonging to some important families in the Monocotyledon and Dicotyledon subclass (Amaryllidaceae, Iridaceae, Lamiaceae, Apiaceae, Asteraceae, Scrophulariaceae, Solanaceae)	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 10		Anatomical structures of plant parts belonging to some important families in the Monocotyledon and Dicotyledon subclass (Amaryllidaceae, Iridaceae, Lamiaceae, Apiaceae, Asteraceae, Scrophulariaceae, Solanaceae)	
Week - 11		Vegetative Organs (Root, Stem, Leaf Internal Morphology, Generative Organs (Flower, Fruit and Seed Internal Morphology	
Week - 12		Vegetative Organs (Root, Stem, Leaf Internal Morphology, Generative Organs (Flower, Fruit and Seed Internal Morphology	
Week - 13		Vegetative Organs (Root, Stem, Leaf Internal Morphology, Generative Organs (Flower, Fruit and Seed Internal Morphology	
Week - 14		Exam	

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.