



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Botany							
Course Code		ZYD125		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Plants, cells, tissues and organs of the relationships between the internal and external morphology and seed plants to teach the basic concepts of the anatomical structure.							
Course Content		Cytology (protoplasm, ergastic substances, cell membrane, cell division), Histology (meristem and continuous tissue), Organographies (vegetative and genratif organs), Laboratory studies							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Botany (Prof. Dr. Yıldırım Akman)
2	General Botany (Suna Bozcuk)
3	General Botany (Dr. Kamil Karamanoğlu)

Week	Weekly Detailed Course Contents	
1	Theoretical	Cytology (Cell Science) What is a microscope? The history of the definition, Types and Use of the microscope.
2	Theoretical	Cell wall formation; Demonstration of prokaryotic and eukaryotic cells, the samples
3	Theoretical	plasmodesma, Shape and size of cells, cell division, mitosis and meiosis; Simple microscope Trial Studies;
4	Theoretical	Texture, classification of tissues; Intracellular Ergastic Madddeleer (showing various plant seeds, starch),
5	Theoretical	Epidermal system, epidermis, stomata (pores); Varieties of plastid (chloroplast, chromoplast and Leuoplast) Indicate,
6	Theoretical	Feathers, Emergencies.
7	Theoretical	Protective tissue, Primary protective tissue, periderma, lenticel (repellent)
8	Preparation Work	Repetition of the topics covered in the exam preparation.
	Intermediate Exam	Mid-term exam
9	Theoretical	Assimileme parenchyma, Aerankima, Transmission parenchyma, storage parenchyma, supporting tissue, sclerenchyma, collenchyma
10	Theoretical	Xylem, phloem, the transmission system, secretory System
11	Theoretical	Organography
12	Theoretical	Leaf morphology, Demonstration of the stoma and feathers.
13	Theoretical	Leaf anatomy.
14	Theoretical	Root morphology, the internal morphology of root, root, secondary structure, examining the root system,
15	Theoretical	Flower, fruit and seed.



16	Theoretical	Final exam.
	Preparation Work	Repeat all subjects and exam preparation.

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	1	14
Laboratory	16	1	1	32
Midterm Examination	1	12	1	13
Final Examination	1	12	1	13
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to comprehend Cytology (Cell science),
2	To be able to comprehend Histology (Tissue science).
3	To be able to comprehend Organography (Body Science)
4	To be able to comprehend Learn the basic concepts of the science of botany.
5	To knows the Flowers, fruit and seeds

Programme Outcomes (Olive Cultivation and Olive Processing Technology)

1	To be able to identify olive, soil and water and to having knowledge these
2	To be able to comprehend knowledge botany and fruit growing
3	To be able to comprehend table olive technology and to apply
4	To be able to comprehend knowledge basic biochemistry and olive oil chemistry and to have olive oil with modern and traditional systems, to have knowledge olive oil refinery, basic process and to have apply olive oil extraction
5	To be able to preserve olive and olive products in appropriate condition
6	To be able to comprehend growing olive plant with necessary agricultural methods and to have general maintenance of olive tree
7	To be able to evaluate olive by-products
8	To be able to comprehend knowledge about vegetable genetic
9	To be able to comprehend knowledge occupational safety and have apply first aid
10	To be able to apply necessary laboratory analysis in olive and olive products production
11	To be able to apply hygiene and sanitation rules in factory
12	To be able to comprehend knowledge of professional ethics and responsibility
13	To be able to comprehend knowledge marketing of olive products and to have olive management
14	To be able to communicate verbally and literally
15	To be able to comprehend planning olive growing and production area
16	To be able to comprehend knowledge vegetable ecology and protection of environment

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	2	2	2	2	2
P2	3	3	3	3	3
P3	2	2	2	2	2
P6	3	3	3	3	3
P8	3	3	3	3	3
P14	4	4	4	4	4
P15	2	2	2	2	2
P16	4	4	4	4	4

