

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Oil Crops								
Course Code		TB310		Couse Level		First C	First Cycle (Bachelor's Degree)			
ECTS Credit 3		Workload	75 (Hours)	Theory	2	Practio	ce	2	Laboratory	0
Objectives of the Course		The importance of vegetable oil for human health, to have basics information about Morphological caharacteristics and production of oil plants grown in Turkey, to determine possibilities of main and second crop oil plants.								
Course Content		oil quality para	ameters, the p plants of Turke	roduction ey, to be a	of vegetab able to have	le oil plan basic info	ts in Worl	d and Tur about grov	actors effecting ve key, production po wing techniques o oil industry	otential of
Work Placement		N/A								
Planned Learning Activities and Teaching Methods		Methods	Explana	tion (Preser	tation), D	emonstra	tion, Disc	ussion, Individual	Study	
Name of Lecturer(s)		Prof. Öner CA	NAVAR							

## **Assessment Methods and Criteria**

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

# **Recommended or Required Reading**

1	1. Arıoğlu, H.H., 2000. Yağ Bitkileri Yetiştirme ve Islahı. Ç.Ü. Ziraat Fakültesi Genel Yayın No: 220. Ders Kitapları Yayın No: A- 70
2	2. Turan, Z.M., Göksoy, A.T. 1998. Yağ Bitkileri. Uludağ Üniversitesi Ziraat Fakültesi Ders Notları No: 80.

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Vegetable oil plants, saturated and unsaturated oil, the production and importance of vegetable oi plants in the World and Turkey
	Practice	introduction of plants
2	Theoretical	Taxonomy, botanical characteristics and adaptation of soybean, fertilization and inoculation of the nitrogen-fixing bacteria,
	Practice	literature review
3	Theoretical	Growing techniques, selection of seed and varieties, harvesting and storage conditions for soybean
	Practice	introduction of varieties
4	Theoretical	Taxonomy, botanical characteristics and adaptation of peanut, fertilization and inoculation of the nitrogen-fixing bacteria,
	Practice	introduction of varieties
5	Theoretical	Growing techniques, selection of seed and varieties, harvesting and storage conditions for peanut
	Practice	presentation of instrument equipment
6	Theoretical	Taxonomy, botanical characteristics and adaptation of sesame
	Practice	introduction of varieties
7	Theoretical	Growing techniques, selection of seed and varieties, harvesting and storage conditions for sesam
	Practice	introduction of plant
8	Intermediate Exam	Mid term
9	Theoretical	Taxonomy, botanical characteristics, agronomy and adaptation of sunflower
	Practice	introduction of plant
10	Theoretical	Growing techniques, selection of seed and varieties, planting, harvesting and storage conditions for sunflower
	Practice	introduction in field experiments
11	Theoretical	Taxonomy, botanical characteristics and adaptation of rapeseed
	Practice	introduction of plant
12	Theoretical	Growing techniques, selection of seed and varieties, planting, harvesting and storage conditions for rapeseed



13	Theoretical	Adaptation, growing techniques, selection of seed and varieties, planting, harvesting and storage conditions for safflower
	Practice	introduction of plant
14	Theoretical	Taxonomy, botanical characteristics and adaptation planting, harvesting and storage conditions for hashish (Papaver somniferum L.),
	Practice	introduction of plant
15	Theoretical	Taxonomy, botanical characteristics and adaptation planting, harvesting and storage conditions for Oiled linen (Linum usitatissimum L.)
	Practice	literature review
16	Final Exam	Final exam

# **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Theory	14	0	2	28			
Lecture - Practice	14	0	2	28			
Midterm Examination	1	7	2	9			
Final Examination	1	8	2	10			
	75						
[Total Workload (Hours) / 25*] = <b>ECTS</b>							

\*25 hour workload is accepted as 1 ECTS

#### Learning Outcomes

1	1. To be able to comprehend the importance of vegetable oil plants proving raw material to oil industry
2	2. To be able to improve growing techniques of vegetable oil plants to increase yield and quality
3	3. To be able to observe problems encountered during growing of vegetable oil plants and to suggest and idea to solve problems
4	4. To be able to determine regions having high production potential of vegetable oil plants
5	5. To be able to suggest appropriate models and the presentation of results as a report

## Programme Outcomes (Agricultural Biotechnology)

1	To be able to develop skills in identifying, modeling and solving problems in agricultural biotechnology				
2	To be able to synthesize life and engineering sciences for the effective resource planning of agricultural biotechnology applications				
3	To be able to interpret about living organisms structure, metabolic and physiological processes in order to propose biotechnological solutions to the agricultural problems				
4	To be able to analyze genomic, metabolomic and proteomic information via bioinformatic tools.				
5	To have the ability to analyze collected data and interpret the results.				
6	To have the ability of individual working ability and to make independent decisions, to work in inter-disciplinary and interdisciplinary teamwork, to communicate by expressing their ideas orally and in writing, clearly and concisely				
7	To have the awareness of professional liabilities and ethics				
8	To be able to follow current national and international problems				

# 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	5	4	3	4	4
P2	3	3	3	4	3
P3	3	4	3	4	3
P4	3	4	4	2	3
P5	5	5	5	2	5
P6	4	5	4	2	4
P7	4	3	3	5	4
P8	4	3	3	5	5

