AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Growing of İndustrial Crops					
Course Code		TB222		Couse Level	First Cycle (Bachelor's Degree)		
ECTS Credit	4	Workload	100 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		To give students the basic principles of agriculture and plant characteristics of arbitrary plants, starch and sugar crops, oil crops, fiber crops located within the Industrial crops.					
Course Content		Classification of Industrial Crops, general properties of vegetable fibers and fiber crops, oil crops and the general properties of vegetable oils, starch and sugar crops and arbitrary plants					
Work Placement		N/A					
Planned Learning Activities and Teaching Methods		Explanation (Presentation), Demonstration, Discussion					
Name of Lecturer(s)		Prof. Aydın ÜNAY					

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Gencer, O. 1987. Genel Tarla Bitkileri (Endüstri Bitkileri). Ç.Ü. Ziraat Fakültesi, Ofset ve Teksir Atölyesi. Adana
2	Mert, M. 2007. Pamuk Tarımının Temelleri. TMMOB Teknik Yayınlar Dizisi No:7.3.
3	Arıoğlu, H. 1990. Nişasta ve Şeker Bitkileri. Ç.Ü. Ziraat Fakültesi Ders Kitabı No:22
4	Koç, H. 1993. Keyf Bitkileri. Gaziosmanpaşa Ü. Ziraat F. Der Notları Yayın No:4

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Industrial Crops and Vegetable Fibers
	Practice	literature review
2	Theoretical	Cotton species and economic importance
	Practice	literature review
3	Theoretical	Plant Structures of cotton, hemp and flax
	Practice	literature review
4	Theoretical	Cultures of cotton, hemp and flax
	Practice	survey in the collection garden
5	Theoretical	Vegetable oils and importance of oil crops
	Practice	survey in the collection garden
6	Theoretical	Plant Structures and culture of sunflower
	Practice	literature review
7	Theoretical	Plant Structures and culture of soybean and groundnut
	Practice	literature review
8	Theoretical	Plant Structures and culture of canola, sesame and opium
	Practice	survey in the collection garden
9	Intermediate Exam	midterm exam
10	Theoretical	Importance, adaptation and plant structure of potato
	Practice	introduction of instrument equipment
11	Theoretical	Culture of potato
	Practice	introduction of instrument equipment
12	Theoretical	Importance, adaptation and plant structure of sugar beet
	Practice	survey in the collection garden
13	Theoretical	Culture of sugar beet
	Practice	survey in the collection garden
14	Theoretical	Plant Structures and culture of tobacco
	Practice	literature review

15	Theoretical	Plant Structures and culture of hop and anise
	Practice	literature review
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Lecture - Practice	14	1	1	28
Midterm Examination	1	12	2	14
Final Examination	1	28	2	30
			Total Workload (Hours)	100
			[Total Workload (Hours) / 25*] = **ECTS**	4

25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To have information about plant characteristics, production projections of Industrial Crops in the world and in our country
2	To apply sustainable agriculture on Industrial Crops and to understand the cultivation of these crops
3	Using Interdisciplinary work and analytical thinking to solve problems that arise in agriculture of Industrial Crops
4	Using modern techniques in agriculture of Industrial Crops
5	To have sufficient knowledge about improving the yield and the quality of Industrial Crops and to use initiative

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