

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Drug Plants								
Course Code	ZTB515		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit 8	Workload	205 (Hours)	Theory	,	2	Practice	2	Laboratory	0
Objectives of the Course To definition secondary compo			npounds	and	chemical a	ınalysis metho	ds of drug pla	ants with some im	nportant
Course Content The history, uses and econom (alkaloids, glycosides, flavono utilization and analysis methor utilization.			noids, s	apon	ins, mucila	ge), definition	of secondary	metabolites, form	nation,
Work Placement N/A									
Planned Learning Activities and Teaching Methods			Explan Study	ation	(Presentat	tion), Discussion	on, Project Ba	ased Study, Indivi	idual
Name of Lecturer(s) Prof. Olcay ARABACI									

Assessment Methods and Criteria							
Method	Quantity	Percentage (%)					
Midterm Examination	1	40					
Final Examination	1	60					

Recommended or Required Reading					
1	1.To understand the importance and economics of drug plants				
2	2. Acquiring information about the chemical properties of drug plants				
3	3. Perceiving the general principles of growing with the morphological characteristics of some drug plants				
4	4.Learning of suitable to industrial crops for the use of pharmaceutical active components of plants				
5	5. Supply of plant material for the production, cultivation, drug preparation, the ability to apply learning and development of marketing processes.				

Week	Weekly Detailed Cour	se Contents		
1	Theoretical	The history, importance and uses of drug plants		
	Preparation Work	Literature review		
2	Theoretical	The economic importance of drug plants		
	Preparation Work	Literature review		
3	Theoretical	Definition of secondary metabolites (alkaloid, glycoside, flavonoid, etc.) of drug plants		
	Preparation Work	Literature review		
4	Theoretical	Definition, classification and metabolism of alkaloids		
	Preparation Work	Literature review		
5	Theoretical	Presentation of some plants contain alkaloids; botany, cultivation and utilization of Atropa belladonna		
	Preparation Work	Literature review		
6	Theoretical	Botany, cultivation and utilization of Datura stramonium and D. metel		
	Preparation Work	Literature review		
7	Theoretical	Botany, cultivation and utilization of Hyoscyamus niger and Aconitum napellus		
	Preparation Work	Literature review		
8	Intermediate Exam	Midterm Exam		
9	Theoretical	Botany, cultivation and utilization of Hydrastis canadensis and Withania somnifera		
	Preparation Work	Literature review		
10	Theoretical	The history, importance and uses of drug plants		
	Preparation Work	Literature review		
11	Theoretical	The definition, classification and metabolism of glycosides		
	Preparation Work	Literature review		
12	Theoretical	Presentation of some plants contain glycosides, botany, cultivation and utilization of Digitalis lanata and D. purpurea		



12	Preparation Work	Literature review				
13	Theoretical	Definition, classification, and	metabolism of flavonoids and other metabolites			
	Preparation Work	Literature review				
14	Theoretical	Botany, cultivation and utilization of Silybum marianum				
	Preparation Work	Literature review				
15	Theoretical	Term project presentations				
	Preparation Work	Literature review				
16	Final Exam	Final Exam				

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	2	2	56	
Lecture - Practice	14	2	2	56	
Term Project	2	20	1	42	
Laboratory	2	5	2	14	
Midterm Examination	1	15	1	16	
Final Examination	1	20	1	21	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Learning	Outcomes
Louining	Outcomics

- 1 To be able to comprehend the importance and economics of drug plants
- 2 To be able to acquire the information of the chemical properties of drug plants
- 3 To be able to perceive the general principles of growing with the morphological characteristics of some drug plants
- 4 To be able to comprehend suitable to industrial crops for the use of pharmaceutical active components of plants
- To be able to comprehed the plant material supplies for the production, cultivation, drug preparation, and the development of marketing processes

Programme Outcomes (Field Crops Master)

- 1 To be able to improve and deepen the level of expertise in field crops on the basis of the departments licenses qualifications.
- 2 To be able to recognize the subjects related to field crops, to be able to solve these and make interpretation.
- To be able to have the skills of acting independently, to have power to decide and to create.
- 4 To be able to work in teams between departments
- 5 To be able to give briefing about latest information of Field Crops in written, oral and visual ways.
- To be able to take responsibility for developing the new approaches and to formulate a solution facing unforeseen complex situations of applications,
- To be able to defend the original opinions in both Turkish and in foreign languages by using these languages and communicating effectively.
- 8 To be able to contribute to science by producing knowledge for the aim of improving quality, efficiency and sustainability
- 9 To be able to apply breeding methods in order to improve new varieties for Field Crops.
- To be able to maintain and select the appropriate statistical methods within the framework of the study, evaluation of scientific ethics; to convert the results into a report/dissertation and to offer them by producing scientific publications.

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	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	3	3	3	3	5
P6	5	5	4	5	5
P7	5	5	5	4	4
P8	5	4	4	4	4
P9	5	5	3	5	4
P10	3	3	3	3	3

