AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Medicinal Plants								
Course Code	TB304		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	3	Workload	75 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	The importance of medicinal plants, its economy, growing techniques, the importance of secondary materials and its variability, to teach the general principles of growing some plants of economic importance for Turkey.								
Course Content	The importance of medicinal plants, classification, economic, ecological requirements, culture, post-harvest operations, drugs, the importance of secondary metabolites, variability of effective substances, features of essential oils, its obtaining, determine of the quality in drugs, Introduction to plants containing essential oil, morphological, growing and consumption to some plants of including family Apiaceae, Asteraceae, Lamiaceae, and Ranunculaceae.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Individual Study								
Name of Lecturer(s)	Prof. Olcay ARABACI								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Ceylan, A., 1995. Medicinal plants I, Ege Univ, Faculty of Agriculture Publications, No: 312
2	Ceylan, A., 1996. Medicinal Plants II, Ege Univ, Faculty of Agriculture Publications, No: 481
3	Baydar, H., 2009. Science and Technology of Medicinal and Aromatic Plants, Faculty of Agriculture, Suleyman Demirel Publication No.: 51
4	Compiled from different sources, and Lecture Notes Presentations Internet Resources

Week	Weekly Detailed Course Contents	
1	Theoretical	The historical development of medicinal plants, and the importance of endemism
	Practice	literature review
2	Theoretical	Classification of medicinal plants and its uses
	Practice	Examination of Medicinal plant
3	Theoretical	Economic importance of medicinal plants
	Practice	Preparation of seedling
4	Theoretical	Ecological aspects of medicinal plants
	Practice	Showing of medicinal plant studies in field
5	Theoretical	Culture of medicinal plants
	Practice	Care and presentation of plants in field
6	Theoretical	Drying, sterilization and storage of medicinal plants, drugs
	Practice	Cutting and planting of some medicinal plants
7	Theoretical	Secondary metabolites and its importance
	Practice	Preparation of herbarium
8	Intermediate Exam	Midterm exam
9	Theoretical	Variability of effective substances in medicinal plants
	Practice	Care and examination of seedlings
10	Theoretical	Essential oils, its specification and acquisition, and determination of the quality of drugs
	Practice	Presentation of Medicinal and aromatic plants laboratory
11	Theoretical	Morphological, culture, consumption of some plants of including Apiaceae family, (Pimpinella anisum, Coriandrum sativum, Carum carvi)
	Practice	Analyze of essential oil

12	Theoretical	Morphological, culture, consumption of some plants of including Apiaceae, Asteraceae and Ranunculaceae family, (Foeniculum vulgare, pyrethrum cinerariaefolium, Nigella sativa)
	Practice	Planting of seedlings in field
13	Theoretical	Morphological, culture, consumption of some plants of including Lamiaceae(Lavandula officinalis, Origanum onites, Mentha piperita)
	Practice	Planting of cuttings in field
14	Theoretical	Term project presentations
	Practice	Care of cuttings and seedlings
15	Theoretical	Term project presentations
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Lecture - Practice	14	0	1	14
Midterm Examination	1	5	1	6
Final Examination	1	12	1	13
			Total Workload (Hours)	75
			[Total Workload (Hours) / 25*] = **ECTS**	3

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes

1	To be able to comprehend the importance of medicinal plants
2	To be able to perceive the morphological characteristics with the general principles of cultivation of medicinal plants and to evaluate its practice
3	To be able to distingish the differences in the cultivation of medical plant according to field crops
4	To able to get information on drugs, and, drying, sterilization, storage of medicinal plants
5	To be able to grasp the duration of design to production and evaluation of some plant species for new plant gain

Programme Outcomes *(Horticulture)*

1	Ability to examine agricultural problems under the light of basic science, mathematics, and agriculture knowledge
2	Ability to plan and apply in different agricultural systems in horticultural crop plants
3	To constitute and realize breeding programmesaccording to market demands
4	Ability to propagate any kinds of stock materials in horticultural crop plants
5	Ability ot transfer of modern technologies to production
6	Ability to have a consciousness of quality in production, storage, and evaluation in horticultural crop plants (To measure, evaluate, and manage different quality parameters)
7	To think analytically of protecting, providing transfer to future, and having responsibility to environment of all plant materials belong to horticultural crop plants area
8	Ability to search, think analytically, reach to knowledge, and obtain solution for solving of agricultural problems (Project, homework, thesis, summer training)
9	Ability to be aware of agricultural problems, to follow them, and to communicate own ideas of these subjects by verbal and written ways (Turkish, social course)
10	To be able to perform in a teamwork
11	Ability to work independently, give decision, and Express own thoughts by occupational-ethic values verbal and written ways in horticultural crop plants
12	Ability to think creatively, innovatively, and analytically, to comprehend the need of lifelong learning, be a part of a related subjects in a web of communication, and to develop by social means

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

	L1	L2	L3	L4	L5
P2	5	5	5	5	5
P7	5	5	5	5	5
P8	5	5	5	5	5