

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Micro in Mushroom Production Techniques								
Course Code MAN222			Couse Level		Short Cycle (Associate's Degree)				
ECTS Credit 2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0	
Objectives of the Course Have knowledge for clonal seedling production and commercial matters through the use of tissue culture techniques.				ie culture					
Course Content Having knowledge about introduction to propagation and commercial production as			edia and c	culture condition					
Work Placement	N/A								
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	tion), Discussi	on, Individua	al Study, Problem	Solving	
Name of Lecturer(s)									

Assessment Methods and Criteria				
Method	Quantity Percentag			
Midterm Examination	1	40		
Final Examination	1	70		

Recommended or Required Reading

- 1 Course notes of Lecturers
- 2 Internet

Week	Weekly Detailed Course Contents				
1	Theoretical	Introduction to tissue culture techniques, definitions and the application fields			
2	Theoretical	Establishment of general laboratory layout			
3	Theoretical	Preparation of the nutrient media, sterilization and culture conditions			
4	Theoretical	Plant regeneration			
5	Theoretical	Callus Culture			
6	Theoretical	Production of haploid plant			
7	Theoretical	Diploiditaion ve doubled plant production			
8	Intermediate Exam	Mid-term-exam			
9	Theoretical	Embrio, protoplast and anther culture			
10	Theoretical	To compose fringed root culture by means of Agrebacterium			
11	Theoretical	In vitro plant abnormalities			
12	Theoretical	Clonal reproduction and commercial production			
13	Theoretical	Clonal reproduction and commercial production			
14	Theoretical	Clonal reproduction and commercial production			
15	Theoretical	Gene transfer to plants			

Workload Calculation						
Activity	Quantity	Preparation		Duration	Total Workload	
Lecture - Theory	14		0	2	28	
Assignment	2		3	1	8	
Midterm Examination	1		6	1	7	
Final Examination	1	,	6	1	7	
Total Workload (Hours)				50		
[Total Workload (Hours) / 25*] = ECTS				2		
*25 hour workload is accepted as 1 ECTS						

Learning Outcomes

1 To learn basic concepts of tissue culture



2	To learn clonal seedlings production method by tissue culture techniques		
3	To gain the ability to prepare the nutrient medium		
4	Having knowledge about the potential of tissue culture techniques in plant breeding.		

Progr	amme Outcomes (Fungiculture)			
1	Having knowledge of morphology, anatomy, cytology, physiology and biochemica Istructures of mushroom			
2	Having knowledge of soil and climate conditions for mushroom cultivation			
3	Having knowledge of identification, classification and the use areas of mushroom species			
4	Having knowledge of culture and production techniques of mushroom			
5	Having knowledge of harvestand conservation of mushroom			
6	Having ability to identify and to maintainim portantd iseases and pests of mushroom species			
7	Having ability and knowledge of marketin gtechniques of mushroom products, effectively.			
8	Ability t oproject mushroom built.			
9	Having knowledge of Laboratuar techniques			
10	Having knowledge of mushroom management			

