AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Crop Production Structures								
Course Code	ZTY543		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	7	Workload	175 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	Internal requirements for crop production structures, determine the environmental conditions, and the vital effect on the performance, planning principles for crop production structures, facilities design principles to help model development opportunities for greenhouses, focuses on such issues.								
Course Content	Structures have an important place in agriculture for crop production planning and to stop crop loosing , By the way to eliminate the deficiencies in these structures and aimed to explain the developments in production								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Project Based Study, Individual Study, Problem Solving								
Name of Lecturer(s)									

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

Recommended or Required Reading	
1	Yüksel, A.N., 2001. Greenhouse Construction Technique (Sera Yapım Tekniği). Hasad Yayıncılık, İstanbul.
2	Yüksel, A.N., C.B. Şişman, 2000. Agricultural Building (Tarımsal İnşaat). Trakya Üniversitesi Tekirdağ Ziraat Fakültesi Yayın No: 278, Tekirdağ.
3	Broker, D.B., F.B. Arkema, C.W. Hall, 1992. Drying and Storage of Grains and Oilseeds. An AVI Book, Published by Van Nostrand Reinhold, ISBN 0-442-20515-5, New York.
4	Hall, C.W., 1980. Drying and Storage of Agricultural Crops. The AVI Publishing Company İnc, ISBN 0-87055-364-X, Usa.

Week	Weekly Detailed Course Contents	
1	Theoretical	Crop Production Structures course, subject, scope, content
2	Theoretical	Introduction (Definition of greenhouses in the world and in Turkey)
3	Theoretical	Classification and Planning of greenhouses
4	Theoretical	Climatic Environmental Conditions Affecting Planning of greenhouses
5	Theoretical	Greenhouse Site Selection, Routing, sizing
6	Theoretical	Regulating of the interior of the greenhouse
7	Theoretical	Building Materials used in greenhouses
8	Theoretical	Materials used in construction of the greenhouse
9	Intermediate Exam	MID-TERM EXAM
10	Theoretical	Greenhouse Covering Materials
11	Theoretical	Regulating Greenhouse Environmental Conditions
12	Theoretical	Mushroom Production Facilities and Climatic Environmental Conditions Affecting the planning for Production Facilities
13	Theoretical	Mushroom Production Process and Business Types
14	Theoretical	Mushroom Cultivation Places and Production Facilities Planning
15	Theoretical	Sample applications
16	Final Exam	FİNAL EXAM

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	8	3	154
Midterm Examination	1	7	2	9

Final Examination	1	10	2	12
			Total Workload (Hours)	175
			[Total Workload (Hours) / 25*] = **ECTS**	7
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To produce compatible desings between crop, environment and structures
2	To inhibit problems of the Crop production structures
3	Access to the economic goal for existing conditions
4	Comprehend ventilation, heating, cooling, irrigation-drainage and fertilisation principles in the crop production structures
5	Identify crop production structures types and structural elements

Programme Outcomes *(Agricultural Structures and Irrigation Master)*	
1	Ability to use, evaluate and improve the knowledge gained from field of study at an expert level
2	Ability to reach necessary the knowledge
3	To able to conduct scientific studies (research) related to the field
4	Ability to consider academical and ethical values the studies
5	Ability to improve editing method and evaluate the results of researches
6	The studies, the ability to reach result and application, develop new approaches
7	A topic in the field of written, verbally and visually as the ability to express
8	Effective use of Turkish language and ability to communicate in a foreign language both written and verbal

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	4	5	5	4	4
P3	4	4	5	5	4
P4	4	5	5	5	5
P5	5	4	5	5	5
P6	5	5	4	4	4
P7	5	4	5	5	5
P8	5	5	5	5	4