AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
FIELD CROPS
FIELD CROPS
FIELD CROPS MASTER
COURSE INFORMATION FORM

Course Title	Crossbreed Technics in Field Crop								
Course Code	ZTB504		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	7	Workload	175 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Making applied crossing of some field crops by specifying the matters to be considered in crossing technique								
Course Content	Stages of crossing technique, materials used in crossing technique, to practise the application of crossing tecniques in some field crops.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Project Based Study								
Name of Lecturer(s)									

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

Recommended or Required Reading	
1	Welch, W. C. 2002. Breeding New Plants and Flowers
2	Gupta, S. K. 2000, Plant breeding; Theory and Techniques Jodhpur, Agrobios 388 p., figs, ISBN 81-7754-056-4
3	. Ralph, E. 1996. Quantitative Genetics with Special Referance to Plants and Animal Breeding
4	Anoymous, 1980.Hybridization of Crop plants. American Society of Agronomy- Crop Ssience Society of America.677 S.Segoe Road, Madison, W153711

Week	Weekly Detailed Course Contents	
1	Theoretical	Base rule that should be taken into consideration with crossing studies in field crops
	Preparation Work	Term paper
2	Theoretical	Crossing technics (emasulation, isolation, Self-pollination)
	Preparation Work	Tools presentation
3	Theoretical	Crossing technics (pollination, tagging)
4	Theoretical	The crossing technics in cotton
	Preparation Work	The crossing in cotton
5	Theoretical	The crossing technics in wheat
	Preparation Work	The crossing in wheat
6	Theoretical	The crossing technics in maize
	Preparation Work	The crossing in maize
7	Theoretical	The crossing technics in tobacco
	Preparation Work	The crossing in tobacco
8	Theoretical	The crossing technics in sesamum
	Preparation Work	The crossing in sesamun
9	Intermediate Exam	Midterm Exam
10	Theoretical	The crossing technics in sugar beet
	Preparation Work	The crossing in sugarbeet
11	Theoretical	The crossing technics in rape
	Preparation Work	The crossing in rape
12	Theoretical	The crossing technics in potato
	Preparation Work	The crossing in potato
13	Theoretical	The crossing technics in sunflower
	Preparation Work	The crossing in sunflower
14	Theoretical	The crossing technics in broad bean

14	Preparation Work	The crossing in broad bean
15	Theoretical	The crossing techniques in alfalfa
	Preparation Work	The crossing in alfalfa
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Lecture - Practice	14	2	2	56
Assignment	1	25	0	25
Term Project	1	30	0	30
Midterm Examination	1	12	2	14
Final Examination	1	20	2	22
			Total Workload (Hours)	175
			[Total Workload (Hours) / 25*] = **ECTS**	7

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes

1	1. To be able to evaluate the importance of crossing technique
2	2. To be able to syntesise crossing techniques according to biology of flowering of field crops
3	3. To be able to comprehend the matters to be considered in the application of crossing technique to obtain the suitable lines in breeding program.
4	4. To be able to solve the problems in application of crossing techniques
5	To be able to syntesise crossing techniques according to biology of pollination of field crops

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.
3	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.
6	To be able to take responsibility for developing the new approaches and to formulate a solution facing unforeseen complex situations of applications,
7	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.
10	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	4	4	4	4	5
P2	5	5	5	5	5
P3	4	4	5	5	5
P4	5	4	5	5	5
P5	5	4	5	4	5
P6	5	5	5	5	5
P7	5	5	5	5	5
P8	5	4	5	4	5
P9	5	5	5	5	5
P10	5	5	5	5	5