AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Genetic								
Course Code	TRİ125		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	3	Workload	75 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To teach the reasons of heredity and variation in living organisms and also to provide background for plant and animal breeding courses.								
Course Content	Monohybrid, dihybrid and polygenic inheritance, genetic interactions, multiple allelism, sex-related inheritance, genetic linkage, Probability calculations, , statistical concepts, mutations, quantitative inheritance, population genetics								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Individual Study, Problem Solving								
Name of Lecturer(s)	Ins. Ali Kemali ÖZUĞUR								

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

Recommended or Required Reading	
1	Genetik , Cemal Erensayın , 1995.Dilek Ofset Matbaacılık.
2	Genetik. Mehmet Topaktaş. 2014. Nobel Akademik Yayıncılık
3	Kalıtımın Genel ilkeleri. http://www.biyolojisitesi.net/uniteler/kalitimin-genel-ilkeleri/genetikte-kullanilan-temel-kavramlar.html

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to genetic (definition, historical development, genetics and human relations, genotype and phenotype, heredity and variation)
2	Theoretical	Cytological principles of heredity,
3	Theoretical	Cytological principles of heredity,
4	Theoretical	Monohibrid inheritance
5	Theoretical	Dihibrid inheritance
6	Theoretical	Genetic interactions
7	Theoretical	Genetic interactions
8	Intermediate Exam	Midterm
9	Theoretical	Multiple allelism
10	Theoretical	Determination of sex
11	Theoretical	Sex-related inheritance
12	Theoretical	Mutations
13	Theoretical	Quantitatif inheritance
14	Theoretical	Quantitatif inheritance
15	Theoretical	Population Genetics
16	Final Exam	Final

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Assignment	4	0	4	16
Individual Work	1	3	3	6
Midterm Examination	1	4	1	5

Final Examination	1	5	1	6
			Total Workload (Hours)	75
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Knows the cytological principles of heredity
2	Knows to inheritance related to single nd two genes
3	Knows to genetic interactions, muliple allelism and sex-related inheritance
4	Knows to quantitative inheritance
5	Knows to population genetics

Programme Outcomes *(Organic Agriculture)*	
1	To have university life, to use computer technology and to have skills for raising of scientific data
2	To produce according to organic agriculture rules
3	To know and apply starter to organic agriculture,and to get product certification
4	To know genetic for organic vegetable and animal species
5	To know and apply organic production principle and regulations and protection of environment
6	Understand and apply production techniques for organic vegetable and animal
7	To understand control methods for diseases and pests in organic agriculture
8	Having knowledge of quality control, preserving and marketing of organic products
9	To having knowledge equipments and methods for new agricultural technologies
10	To have knowledge of proffessional ethics and responsibility
11	Ability to work in team and individual
12	To communicate orally and in writing
13	To have adopt life-long learning importance and to have follow professional developments

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

	L1	L2	L3	L4	L5
P4	5	5	5	5	5
P5	4	4	4	5	4