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 *(Olive Cultivation and Olive Processing Technology)*	
1	To be able to identify olive, soil and water and to having knowledge these
2	To be able to comprehend knowledge botany and fruit growing
3	To be able to comprehend table olive technology and to apply
4	To be able to comprehend knowledge basic biochemistry and olive oil chemistry and to have olive oil with modern and traditional systems, to have knowledge olive oil rafinery, basic process and to have apply olive oil extraction
5	To be able to preserve olive and olive products in appropriate condition
6	To be able to comprehend growing olive plant with necessary agricultural methods and to have general maintenance of olive tree
7	To be able to evaluate olive by-products
8	To be able to comprehend knowledge about vegetable genetic
9	To be able to comprehend knowledge occupational safety and have apply first aid
10	To be able to apply necessray laboratory analysis in olive and olive products production
11	To be able to apply hygiene and sanitation rules in factory
12	To be able to comprehend knowledge of proffessional ethics and responsibility
13	To be able to comprehend knowledge marketing of olive products and to have olive management
14	To be able to communicate verbally and literally
15	To be able to comprehend planning olive growing and production area
16	To be able to comprehend knowledge vegetable ecology and protection of environment