



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Genetic Information							
Course Code		LBT010		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	80 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Teaching the basic principles of inheritance							
Course Content		Genetic concepts, principles of heredity and applications							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)		Ins. Şebnem Hazal GÜLŞEN							

### Prerequisites & Co-requisites

Equivalent Course	BYL110
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### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Genetik Kavramlar, Palme Yayıncılık, ISBN: 978-605-5829-26-1
2	Genetik, Nobel Yayın, ISBN: 978-605-395-399-9
3	Genetik I, Temel Genetik, İst. Üniv. Yay. ISBN: 975-404-159-8

Week	Weekly Detailed Course Contents	
1	Theoretical	introduction to genetics
2	Theoretical	Nucleic acids, their structure and functions
3	Theoretical	Chromosomes
4	Theoretical	Cell cycle and cell divisions, mitosis
5	Theoretical	Meiosis
6	Theoretical	Fertilization in animals and plants
7	Theoretical	Mendelian Genetics
8	Theoretical	Mendelian Genetics
9	Theoretical	Probability laws in explaining genetic events
10	Theoretical	Extensions of Mendelian genetics: allele interactions
11	Theoretical	Extensions of Mendelian genetics: gene interactions
12	Theoretical	Chromosome mutations: Changes in chromosome number
13	Theoretical	Chromosome mutations: Changes in chromosome arrangement and their effects
14	Theoretical	Population genetics
15	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	2	39
Assignment	13	0	1	13
Individual Work	13	0	2	26
Midterm Examination	1	0	1	1



Final Examination	1	0	1	1
Total Workload (Hours)				80
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	To understand basic genetic terms
2	Understanding mitosis and meiosis
3	Understanding Mendelian genetics
4	Understanding chromosomal mutations
5	Understanding population genetics

### Programme Outcomes (Organic Agriculture)

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

### 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

