



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Genetics							
Course Code		BYL110		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, inheritance principles and practices							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)									

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	An introduction to genetics
2	Theoretical	Nucleic acids, 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	Intermediate Exam	Midterm exam
9	Theoretical	The laws of probability in explaining the 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 structure 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 the basic genetic terms
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2	To understand mitosis and meiosis
3	To understand Mendelian genetics
4	To understand chromosome mutations
5	To understand population genetics

Programme Outcomes (Laboratory Technology)

1	To be able to comprehend social, cultural and social responsibilities, to be able to follow national and international contemporary problems and developments
2	Atatürk is bound to Atatürk nationalism in the direction of principles and reforms; Adopting the national, moral, spiritual and cultural values of the Turkish people, open to universal and contemporary developments, the Turkish language is a rich, rooted and productive language; Have a love of language and a consciousness; To have the ability to use as much of a foreign language as he would need to read, taste and habit and professionally.
3	To be able to recognize the basic hardware units and operating systems of a computer, having information about internet usage and preparing documents, spreadsheets and presentations on computer by using office programs.
4	Acquires theoretical and practical knowledge at the basic level in mathematics, science and vocational field.
5	With the knowledge of laboratory technology in the field, he knows and analyzes problems, brings interpretation of data and suggests solutions.
6	In laboratories, according to the prepared business plan and program, necessary work can be done to obtain the desired quality products.
7	To have professional and ethical responsibility in business life.
8	Development and change are open, follow scientific social and cultural innovations, and develop themselves constantly.

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

