

Lesson Name	Code	Semester	T+U	Credit	ECTS
Genetic I	0804523	1	3+2	4	6

Language of the Lesson	Turkish
Type of Course Unit	Compulsory
Name of Lecturer(s)	Assist. Prof. Dr. Arif PARMAKSIZ
Objectives of the Lesson	To teach basic genetic principles and methods to undergraduate students.
Learning Outcomes of the Course	The transfer laws of hereditary material, Hybridization and pedigree analysis. Genetic associations that modify Mendelian ratios and mendelian ratios Genotype-phenotype relationships Mutation mechanisms of chromosomes
Course contents	Mendel Genetics and its applications, Chromosomes and inheritance, Genetic linkage, Non-nuclear inheritance, Population genetics

Weeks	Topics
1	History of Genetics
2	Chromosome morphology
3	Cell division
4	Mendelian genetics
5	Monohybrid crossing
6	Dihybrid crossing
7	Midterm
8	Trihybrid crossing
9	Chromosome recombinations
10	Chromosome Map
11	Map of genes and genes on the chromosome
12	Crossing-over
13	Genetic chemical structure
14	Final

Resources
<ol style="list-style-type: none"> 1. N. V. Rothwell, 1993, Genetics, Willey-Liss, New York. 2. L. H. Hartwell et al., 2000, Genetics : From genes to genomes, McGraw-Hill, USA. 3. W. S. Klug and M. R. Cummings 2000, Concept of Genetics Prentice Hall, (Çev. Ed. C. Öner, Genetik Kavramlar, 2. baskı) 4. N. Dilsiz, 2004, Moleküler Biyoloji, Palme Yayınevi, Ankara 5. C. Evrensayım, 2000, Genetik, Nobel Yayın Dağıtım, Ankara

Evaluation System
<p>Midterm : % 40 Final : % 60</p>