Lesson Name	Code	Semester	T+U	Credit	ECTS
Genetic II	0804605	2	3+0	3	5

Language of the	Turkish			
Lesson				
<b>Type of Course Unit</b>	Compulsory			
Name of Lecturer(s)	Assist. Prof. Dr. Arif PARMAKSIZ			
Objectives of the	To teach basic genetic principles and methods to undergraduate			
Lesson	students.			
<b>Learning Outcomes of</b>	Outcomes of Structural and functional properties of genetic material			
the Course	Replication, transcription and translation systems			
	Genotype-phenotype relationships			
	Genetic and biochemical basis of the molecular evolutionary process			
Course contents	ents Chromosomal mutations, Gene mutations, Sex and heritage, Bacterial			
	genetic system, Viruses and genetic system, Control systems and			
	differentiation in living systems			

Weeks	Topics			
1	Mutations			
2	Chromosomal mutations			
3	Gene mutations			
4	Aneploidi in humans			
5	Polyploidy in plants and animals			
6	DNA repair mechanism			
7	Midterm			
8	Sex and heredity			
9	Mosaic formation			
10	Blood groups			
11	Quantitative inheritance			
12	Non-nuclear inheritance			
13	Population genetics			
14	Final			

## Resources

- 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				
Midteri	n: % 40			
Final	<b>:</b> % 60			