

HUMAN GENETICS

1	Course Title:	HUMAN GENETICS
2	Course Code:	MBG0505
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	0
6	Semester:	0
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. NİLÜFER ÇİNKILIÇ
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	aydemirn@uludag.edu.tr 0.224.2941797 Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Görükle Kampüsü, 16059 Bursa
17	Website:	
18	Objective of the Course:	The course will provide an overview of human genetics and medical genetics subjects to biology students.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To have information regarding the classification of living things and their structural and molecular properties
	2	To learn the methods used in biological research to have the skills to analyze and solve the problems
	3	To be able to see the continuity of the relationship between the environment and living things as a whole to comprehend the position and responsibility of human beings nature
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	The methods of genetic analysis, hereditary structures and models	
2	Non-mendelian inheritance	

3	Normal and polygenic inheritance	
4	cytogenetics	
5	Somatic chromosomes and somatic chromosome diseases	
6	Sex chromosomes and sex chromosome diseases	
7	DNA analysis and recombinant DNA techniques	
8	Inherited metabolic diseases	
9	Cancer and genetics	
10	Genomic imprinting	
11	uniparental disomi	
12	Antenatal diagnosis in hereditary diseases and chromosome analysis indications	
13	Genetic counselling	
14	Genetic diagnosis	

22	Textbooks, References and/or Other Materials:	Tıbbi Genetik, Nurettin Başaran
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00

Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	2	14	2.00	28.00
Total		100.00		
Practicals/Labs		0	0.00	0.00
Self study and preparation		14	3.00	42.00
Homeworks		5	5.00	25.00
Projects		2	10.00	20.00
Field Studies		0	0.00	0.00
Oral exam		1	1.00	1.00
Others		0	0.00	0.00
Final Exams		1	1.00	1.00
Total Work Load				117.00
Total work load/ 30 hr				3.90
ECTS Credit of the Course				4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High
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