

# MEDICAL BIOLOGY AND GENETICS

1	Course Title:	MEDICAL BIOLOGY AND GENETICS
2	Course Code:	TLTZ112
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	5.00
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:	Doç. Dr. ELİF ERTÜRK BAKIR
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	Doç.Dr. Elif ERTÜRK Bursa Uludağ Üniversitesi, Sağlık Hizmetleri MYO, Görükle Kampüsü, Nilüfer/BURSA
17	Website:	
18	Objective of the Course:	To examine the basic principles of molecular biology, cell biology, genetics and genomics and their relationship with diseases
19	Contribution of the Course to Professional Development:	Students will have basic knowledge and professional skills in Medical Biology, Medical Genetics, Molecular and Cell Biology.
20	Learning Outcomes:	
	1	To know the structural properties of genetic material
	2	To be able to define the concept of mutation and give examples
	3	Learning the cell cycle and cell divisions
	4	To be able to explain the basic concepts of genetics
	5	To have knowledge about tissues and systems
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21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice

1	DNA Structure			
2	Gene Structure and Expression			
3	Mutations			
4	Cell Cycle			
5	Cell Cycle			
6	Epithelial Tissue			
7	Epithelial Tissue			
8	Connective Tissue			
9	Connective Tissue			
10	Muscle Tissue			
11	Blood Tissue			
12	Bone Tissue			
13	Cartilage Tissue			
14	Nerve Tissue			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		42	1.00	42.00
Practicals/Labs		14	2.00	28.00
Self study and preparation		14	2.00	28.00
Homeworks		6	4.00	24.00
Projects		0	0.00	0.00
Midterm Exam		1	4.00	4.00
Field Studies		0	0.00	0.00
Midterm exams		1	14.00	14.00
Home work-project		0	0.00	0.00
Others		0	0.00	0.00
Final Exams		1	14.00	14.00
Total		2	100.00	
Total Work Load				164.00
Total work load/ 30 hr				5.00
ECTS Credit of the Course				5.00
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		Student participation in the course, midterm and final exams; It includes measurement and evaluation criteria.		
24	ECTS / WORK LOAD TABLE			

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	2	2	3	3	2	2	3	1	1	3	3	2	0	0	0	0
ÖK2	5	4	5	3	5	5	3	5	2	2	3	3	0	0	0	0

ÖK3	2	3	3	2	3	4	4	3	3	2	2	3	0	0	0	0
ÖK4	2	2	3	3	1	2	3	3	2	2	3	2	0	0	0	0
ÖK5	3	3	4	4	3	2	2	3	4	3	3	4	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			