

# MOLECULAR AND CHROMOSOMAL BASIS OF DISEASES

1	Course Title:	MOLECULAR AND CHROMOSOMAL BASIS OF DISEASES	
2	Course Code:	TTB5005	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	7.00	
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. ÜNAL EGELİ	
15	Course Lecturers:	Prof. Dr. Berrin TUNCA Doç. Dr. Gülşah ÇEÇENER	
16	Contact information of the Course Coordinator:	egeli@uludag.edu.tr 0224 295 41 51 ULUDAĞ ÜNİVERSİTESİ TIP FAKÜLTESİ TIBBİ BİYOLOJİ ANABİLİM DALI	
17	Website:		
18	Objective of the Course:	Learning basic concepts of molecular and chromosomal basis of genetic disease and linking between other subjects, making clinical approach possible and easier.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Understanding basic concepts of molecular and chromosomal basis of genetic disease.
		2	Learning of molecular and chromosomal basis of genetic disease.
		3	Linking the techniques that can be used in therapy with genetic diseases.
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Molecular genetic basis of hereditary diseases		

<b>2</b>	Genotypic and phenotypic characters of hereditary diseases	
<b>3</b>	Genetic consultation	
<b>4</b>	Heredity of this type of diseases	
<b>5</b>	Exemplify of hereditary disease in gene level	
<b>6</b>	Structure of human chromosomes	
<b>7</b>	Cytogenetics basis of chromosomal diseases	
<b>8</b>	Abnormality of autosomal chromosomes and illustrated diseases	
<b>9</b>	Numerical abnormality of chromosomes and illustrated diseases	
<b>10</b>	Sex chromosomes abnormalities and illustrated diseases	
<b>11</b>	Cytogenetic diagnosis methods of chromosomal diseases	
<b>12</b>	Prenatal diagnosis of chromosomal diseases	
<b>13</b>	Prenatal diagnosis of molecular diseases	
<b>14</b>	Gene therapy methods of molecular diseases	

23	Assesment
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Theoretical	0	0	04	3.00	42.00
Practicals/Labs		0		0.00	0.00
Self Study and preparation	1	1	04	7.00	98.00
Homeworks		0		0.00	0.00
Contribution of Term (Year) Learning Activities to		0	00	0.00	0.00
Field Studies		0		0.00	0.00
Contribution of Final Exam to Success Grade		1	00.00	0.00	0.00
Others		4		17.00	68.00
Final Exams					
Measurement and Evaluation Techniques Used in the		1		2.00	2.00
Total Work Load					210.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS
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**LO: Learning Objectives**      **PQ: Program Qualifications**

<b>Contribution Level:</b>	<b>1 very low</b>	<b>2 low</b>	<b>3 Medium</b>	<b>4 High</b>	<b>5 Very High</b>
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