MUTATIONS AND MUTAGENIC AGENTS										
1	Course Title:	MUTATI	IUTATIONS AND MUTAGENIC AGENTS							
2	Course Code:	TTB 5003								
3	Type of Course:	Compuls	ory							
4	Level of Course:	Second Cycle								
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	6.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr. Berrin Tunca								
15	Course Lecturers:	Prof. Dr. Ünal EGELİ Doç. Dr. Gülşah ÇEÇENER								
16	Contact information of the Course Coordinator:	btunca@uludag.edu.tr 0224 295 41 61 ULUDAĞ ÜNİVERSİTESİ TIP FAKÜLTESİ TIBBİ BİYOLOJİ ANABİLİM DALI								
17	Website:									
18	Objective of the Course:	Learning basic consepts of mutations and mutagenic factors, learning types of muttaions and mechanism of their formation 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 consepts of mutations and mutagenic factors.							
		2	Understanding the molecular alterations in the cell and linking to related diseases.							
		3								
		4								
		5								
		6								
		7								
		9								
		10								
24	Course Content:	110								
21	Course Content.	<u> </u>	purse Content:							
Mook	Theoretical Practice									
1	Description of mutations.		Fractice							
ı	Description of mutations.									

2		cept ations		nome,	crom	osome	and g	jene											
3		cripti ations		somat	c and	l germl	ine												
4	Biog	enes	sis of r	nutatio	ons														
5	Hot-	spot	mutat	ions															
6	Non-	-sens	se mu	tations	3														
7	Miss	s-sen	se mu	ıtation	S														
8	Siler	lent mutations																	
9	Fran	nesh	ift mut	tations	;														
10	Pron	omoter mutations																	
		cemplify the effects of mutations to nenotipe																	
12	Data	a bas	es of	mutati	ons														
13	Spor	ontane and induced mutations																	
14	Muta	tagenic factors																	
22		aterials:									Thompson and Thompson Medical Genetic Molecular Biology of the Cell, Alberts, Garland Science Molecular Cell Biology, Lodish, WH Freeman and Company The Cell: A molecular Approach, Geoffrey M. Copper								
23	Asse	esme	ent																
Activites									Number				Duration (hour)			Total Work Load (hour)			
Theoretical 0								0.	ा पृथ				2.00			28.00			
Practicals/Labs									0						0.00				
Self stu	Cinal Exam Self study and preperation									14					56.00				
Homeworks									8					80.00					
Contribution of Term (Year) Learning Activities to Success Grade								JO.	10/00					0.00					
Field Studies										0						0.00			
	dterm exams									100.00						0.00			
Others	ers									14				1.00			14.00		
Measurement and Evaluation Techniques Used in the Course								е	1						2.00				
Total Work Load																180.00			
Total work load/ 30 hr																6.00			
ECTS Credit of the Course																6.00			
25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	ı	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
ÖK1	Ę	5	5	0	0	0	3	0	0	0	3	0	0	0	0	0	0		
ÖK2	į	5	5	0	0	0	3	0	0	0	3	0	0	0	0	0	0		
LO: Learning Objectives PQ: Program Qualifications																			
utior	ontrib 1 very low 2 low ation evel:				-			lium	4 High			5 Very High							