GENETIC TOXICOLOGY									
1	Course Title:	GENETI	C TOXICOLOGY						
2	Course Code:	BIO6200							
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Prof. Dr.	NİLÜFER ÇİNKILIÇ						
15	Course Lecturers:	Prof. Dr.	Tolga Çavaş						
16	Contact information of the Course Coordinator:	aydemirn@uludag.edu.tr tcavas@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	To provide detailed information about the methods used in the field of genetic toxicology and risk estimation analysis							
19	Contribution of the Course to Professional Development:	Doctorate student should understand the importance and methods of genetic toxicology well.							
20	Learning Outcomes:								
		1	Ilustrate physical and chemical genotoxic agents. explain efficiency mechanisms of physical chemical genotoxic agents.						
		2	relate genotoxicity and DNA repair mechanisms.explain DNA repair mechanism. relate types of mutation and DNA repair.						
		3	propose an genotoxicity test about an environmental agent.define genotoxicity test systems.						
		4							
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	urse Content:						
Week	Theoretical		Practice						
1	Introduction to Genetic toxicology-Hi The Application of Structure–Activity Relationships to the Prediction of the Mutagenic Activity of Chemicals	story							
2	Bacterial Mutagenicity Assays: Test	Methods							

3	The Mouse Lymphoma Assay In vivo mouse chromosome aberratio	on tests							
4	Mammalian Cell HPRT Gene Mutatio Test Methods	on Assay:							
5	The In Vitro Mammalian Chromosom Aberration Test	е							
6	The Interpretation and Analysis of Cytogenetic Data								
7	The In Vitro Micronucleus Assay								
8	The In Vitro and In Vivo Comet Assay	ys							
9	Assessment of DNA Interstrand Cros	slinks ssay							
10	Cytogenetic In Vivo Assays in Somat	ic Cells							
11	Article conversations								
12	The Measurement of Induced Geneti Change in Mammalian Germ Cells	с							
13	Article conversations								
14	Transgenic Animal Mutation Models: Review of the Models and How They Function	A							
22	Textbooks, References and/or Other Materials:		1Genetic Toxicology Testing 1st Edition A Laboratory Manual						
Activit	ies		Number	Duration (hour)	Total Work Load (hour)				
Theore	ical		Pupilsned Date: 20th Wa		42.00				
Practic	als/Labs		0	0.00	0.00				
Self stu	dy and preperation		18 ¹ Apr 2017.60 pages.	BOOK NUMBER 238-218BN:					
Homew	vorks		2	25.00	50.00				
Project	Assesment		0	0.00	0.00				
Field S	tudies		0	0.00	0.00				
Midterr	n exams	R	0	0.00	0.00				
Others			0	0.00	0.00				
Pihiai e	xams	0	0 90	50.00	50.00				
Total V	Vork Load				184.00				
Fional F	ኢትዮ/ioad/ 30 hr	1	80.00		6.13				
ECTS	Credit of the Course				6.00				
Contrib Succes	oution of Term (Year) Learning Activitie ss Grade	es to	20.00						
Contrib	oution of Final Exam to Success Grade)	80.00						
Total			100.00						
Measu Course	rement and Evaluation Techniques Us	sed in the	Interactions with students using projects and homeworks literature searching and translating						
24	ECTS / WORK LOAD TABLE								

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	0	4	3	0	4	5	0	0	0	0	0	0	0	0	0
ÖK2	0	3	0	4	4	0	4	3	0	0	0	4	0	0	0	0
ÖK3	4	0	3	0	0	0	0	4	0	0	4	0	0	4	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low			3 Medium		4 High		5 Very High						