		EPIG	SENETIC							
1	Course Title:	EPIGEN	ETIC							
2	Course Code:	BIO6410)							
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:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Prof. Dr.	FERDA ARI							
15	Course Lecturers:	Yok								
16	Contact information of the Course Coordinator:	Prof Dr. Ferda ARI Bursa Uludağ Üniversitesi, Fen Edebiyat Fakültesi, Biyoloji Bö 16059 Nilüfer/BURSA Tlf: 0 224 294 1822 e-posta: ferdaoz@uludag.edu.tr								
17	Website:									
18	Objective of the Course:	Identify and discuss in detail the mechanisms of unexplained changes in DNA sequence and gene function.								
19	Contribution of the Course to Professional Development:		rse will provide students with the necessary knowledge bigenetics in areas such as oncology, molecular biology, and .							
20	Learning Outcomes:									
		1	To understand the concept of epigenetics							
		2	To be able to evaluate epigenetic mechanisms at the molecular level.							
		3	He/she can understand to relationship between DNA methylation and epigenetics							
		4	He/she can relative to between histone modification and epigenetics.							
		5	He/she can understand to the role of epigenetic mechanisms in the maintenance of gene regulation							
		6	He/she can analyse to how the loss of epigenetic control causes human diseases							
		7	He/she can evaluate the therapeutic approaches in epigenetic defects.							
		8								
		9								
		10								
21	Course Content:									
107	· · ·	Co	ourse Content:							
	Theoretical		Practice							
1	Introduction to epigenetics									
2	DNA Methylation									

3	DNA methyltransferases									
4	DNA methyl binding proteins, interplachromatin dynamics	ay with								
5	Histon modifications and epigenetic regulation of genes									
6	Histon modifications and epigenetic regulation of genes									
7	Methods in Epigenetics									
8	Methods in Epigenetics									
9	Repeating courses and midterm exa	m								
10	Epigenetic factors in developmental	biology								
11	Cancer and Epigenetic drugs									
12	Stem cells and epigenetics									
13	Epigenetics in other organisms									
14	Final Exam									
22	Textbooks, References and/or Other Materials:		Current Articles Epigenetics [Paperback] C. David Allis (Author), Thomas Jenuwein (Author), Danny Reinberg (Author), Marie-Laure Caparros (Author) Publisher: Cold Spring Harbor Laboratory Press; 1st edition (October 31, 2007) Language: English ISBN-10: 0879698756							
Activit	es		Number	Duration (hour)	Total Work Load (hour)					
Theore	tical n Exam	1	30.00	3.00	42.00					
	als/Labs		0	0.00	0.00					
Selfsty	dy and preperation	1	20.00	4.00	56.00					
Homew			1	28.00	28.00					
Project	S	3	100.00	20.00	20.00					
Field S		,,	0	0.00	0.00					
Didea	as extande		1	3.00	3.00					
Others			7	4.00	28.00					
Final E	xams		100.00	3.00	3.00					
Total W	Vork Load				183.00					
Cotadse	ork load/ 30 hr			11	6.00					
ECTS (Credit of the Course				6.00					
25	PQ1 PQ2 PQ3 PQ4 PQ5 PQ	Ql	RNING OUTCOME JALIFICATIONS							

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	5	5	4	4	2	4	4	3	4	5	4	0	0	0	0	0
ÖK2	4	4	4	3	2	4	4	3	3	4	4	0	0	0	0	0
ÖK3	4	4	4	3	3	4	4	3	3	4	4	0	0	0	0	0
ÖK4	4	4	4	3	3	4	4	3	3	4	4	0	0	0	0	0

ÖK5	3	4	4	3	3	4	4	3	3	4	4	0	0	0	0	0
ÖK6	4	5	4	3	3	4	4	3	4	4	5	0	0	0	0	0
ÖK7	4	5	4	3	3	4	4	3	4	4	5	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3 Medium			4 High			5 Very High					