	DNA,RNA AND PR	OTEIN	SYNTHESIS METABOLISM							
1	Course Title:	DNA,RN	A AND PROTEIN SYNTHESIS METABOLISM							
2	Course Code:	KIM504								
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	rcle							
5	Year of Study:	1								
6	Semester:	1								
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.	Bilgen Osman							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	bilgeno@ 0 224 29 Uludağ Ü	Bilgen OSMAN Puludag.edu.tr 04 17 21 Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü, (BURSA 16059							
17	Website:									
18	Objective of the Course:	jective of the Course: The aim of this course is to give information about DNA,RNA and protein synthesis in cell.								
19	Contribution of the Course to Professional Development:	To have knowledge about DNA, RNA and protein sysnthesis taking place in the cell								
20	Learning Outcomes:									
		1	Knows the basic concepts of genes and chromosomes							
		2	Distinguishes the differences of DNA,RNA and protein metabolism							
		3	Knows the synthesis of DNA,RNA and protein							
		4	Knows the basic concepts of gene regulation							
		5	Learn the gene regulations of prokaryotic and eukaryotic cells							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
10.	TI 6 1	Co	ourse Content:							
	Theoretical		Practice							
1	Genes and chromosomes									
2	DNA replication									
3	DNA replication									
4	DNA repair and recombination									

	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16	
25				CON	TRIE	BUTIO	N OF				OUTC	OME:	S TO I	PROG	SRAM	IME		
ECTS	ECTS Credit of the Course															6.00		
Total work load/ 30 hr														5.90				
Total V	Vork L	oad														177.00		
Final E	xams	8							1	1 20.00						20.00		
Others									3	3			10.00)		30.00		
Midterr	n exa	ıms							1	1)	15.00				
Field S	tudie	S	W/ 11	- K		LIVE			(0 0.00						0.00		
Project	P-0-	FC /	WO!	י אכ	045	TAP	-		7)			0.00		0.00	0.00		
Homev									(0 0.00					0.00			
\$8fal	udy aı	nd pre	epera	tion					10	p ₄ 00	5.00					70.00		
Practic	als/La	abs	E						10)	0.00					0.00		
Theore	etical								1	14 3.00						42.00		
Activites							Number Duration (hour)						Total Work Load (hour)					
Home		proje	ct				0		_	0.00								
Quiz									0.00									
	Midterm Exam 1							40.00										
	I LEARNING ACTIVITIES NUMBE							WEIGHT										
23	<u> </u>	esme					1											
22	Materials:								Lehninger,Principles of Biochemistry Strayer, Biochemistry									
14	Regulation of Gene Expression in Prokaryotes																	
	Regulation of Gene Expression in Prokaryotes																	
12	Principles of Gene Regulation																	
11	Protein Targeting and Degradation								\perp									
10		Protein Synthesis (translation)																
9	Protein Synthesis (translation)																	
8	Midt	Midterm																
7	RNA	RNA-Dependent Synthesis of RNA and DNA																
6	DNA	DNA-Dependent Synthesis of RNA																
5	DNA	-Dep	ende	nt Syn	thesi	s of RN	IA											

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

ÖK5	4	0	4	3	4	0	0	0	5	4	0	0	0	0	0	0
Contrib ution Level:	1 \	ery l		1	ing C 2 low)bjed		s P Medi			m Qu 4 Higl	alifica h		5 Ver	y High	