CELL SIGNAL TRANSDUCTION AND RELATED DISEASES									
1	Course Title:	CELL SI	GNAL TRANSDUCTION AND RELATED DISEASES						
2	Course Code:	TIP2129							
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	2							
6	Semester:	3							
7	ECTS Credits Allocated:	3.00							
8	Theoretical (hour/week):	1.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	Yok							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Dr. Ögr.	Üyesi IŞIL EZGİ ERYILMAZ						
15	Course Lecturers:	Yok							
16	Contact information of the Course Coordinator:	Dr. Öğr. Üyesi Işıl Ezgi ERYILMAZ ezgieryilmaz@uludag.edu.tr 0224 295 41 63							
17	Website:	http://bilgipaketi.uludag.edu.tr/Programlar/Detay/28?AyID=29							
18	Objective of the Course:	To give general information about the molecular mechanisms of the intracellular molecular signaling and cell communication system, to teach the molecular mechanisms of diseases caused by cell signaling disorders, to gain basic knowledge that can be linked to other pre-clinical courses, to enable and facilitate the clinical approach							
19	Contribution of the Course to Professional Development:	Understanding the molecular mechanisms of intracellular and intercellular communication							
20	Learning Outcomes:								
		1	Understanding the molecular mechanisms of intracellular and intercellular communication						
		2	Learning cell signal transduction defects and their molecular bases						
		3	Having knowledge about diseases related to cell signal transduction disorders						
		4							
		5							
		6							
		7							
		8							
		9							
24	Course Content:	יין							
21		<u> </u>	urso Contont:						
Wook	Theoretical								
1	Introduction to cell signaling								
2	Basic mechanisms of intercellular								
2	communication								

3	Gene recep	ral s tors	structu	ure an	d prop	perties	of cel	l									
4	Nucle	ear r	ecept	ors an	nd rela	ted dis	eases	5									
5	Ion-coupled receptors and related diseases																
6	G protein-coupled receptors and related diseases																
7	Enzym-coupled cell surface receptors																
8	Tyrosine kinase activation and related diseases																
9	Serine / threonine kinase activation and related diseases																
10	Secondary messengers: cytoplasmic signal transduction and signal cascades																
11	Secondary messengers: cytoplasmic signal transduction and signal cascades																
12	Cytoplasmic signaling disorders and clinical effects																
13	Signif	icar	nt sigr	nals in	orgar	nism de	evelop	ment									
14	Extracellular matrix (ECM) and signal transduction related diseases																
22	Textbooks, References and/or Other Materials:						Mo Mo Co Co	Molecular Biology of the Cell, Alberts, Garland Science, Molecular Cell Biology, Lodish, WH Freeman and Company, The Cell: A molecular Approach , Geoffrey M. Copper									
Activites						Number			Duration (hour)			Total Work Load (hour)					
Hildterm Exam 1					40,	40,00			1.00			14.00					
Practicals/Labs						(	0			0.00			0.00				
Self study and preperation					0.0			4.00		56.00							
Homeworks						(	0		0.00			0.00					
Projects 2										0.00			0.00				
Field Studies						(	0		10.00			0.00					
Midtern	Midterm exams										10.00	0.00			0.00		
	≥rs स्							ייי	0 100.00			10.00			10.00		
															90.00		
Total w	Total work load/ 30 br										3.00						
ECTS Credit of the Course													3.00				
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4		4	4	5	5	5	4	4	4	3	4	4	4	0	0	0
ÖK2	4		4	5	5	5	4	5	5	5	5	5	5	5	4	0	0
ÖK3	4		5	5	4	4	4	4	4	4	4	5	5	5	4	4	0
			I	LO: L	earr	ning C	bjec	tive	s F	Q: P	rogra	ım Qu	alifica	tions	5	1	

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					