MOLECULAR IMMUNOLOGY										
1	Course Title:	MOLECU	JLAR IMMUNOLOGY							
2	Course Code:	MBG310	8							
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	le							
5	Year of Study:	3								
6	Semester:	6								
7	ECTS Credits Allocated:	5.00								
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 f	ace							
14	Course Coordinator:	Prof. Dr.	SEZAİ TÜRKEL							
15	Course Lecturers:	Dr. Öğr.	Üyesi Diğdem Yöyen Ermiş							
16	Contact information of the Course Coordinator:	Prof.Dr. Sezai Türkel sturkel@uludag.edu.tr								
17	Website:									
18	Objective of the Course:	To teach functions, structures of molecular and cellular components, and application fields of immunology								
19	Contribution of the Course to Professional Development:	Learns the significance of immune system and application fields of antibody technology								
20	Learning Outcomes:									
		1	Learns components of the immun system							
		2	Learns antigen-antibody interactions, and antibody types, diversity							
		3	Knows innate and aquired immunity systems and their molecular components							
		4	learns autoimmunity and immune hypersensitivity							
		5	learns antibody and vaccine production techniques and application fields of immunology							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	urse Content:							
Week	Theoretical		Practice							
1	Introduction, course description, text and course sylabuss	books								
2	Types of immunity, innate and aquire immunity-1	ed								
3	Types of immunity, innate and aquire immunity-2	ed								

4	lympho presen	cytes t tation	unctior	ns and	d antige	en												
5	Cell-me	ediated	l immu	nity-1														
6	Cell-me	ediated	l immu	nity-2														
7	Humor antiboo	al imm ly prod	unity, E uction	3-lymp	hocyte	es and												
8	autoim allergy	munity	and im	nmun	hypers	ensitiv	vity,											
9	Acquire	ed imm	unity															
10	Immun	syster	n disea	ises, t	issue	rejecti	on											
11	Antiboo monoc	ly proc onal a	luction, nd poly	appli clona	cations I antibo	s of odies												
12	Antiboo monoc	ly proc onal a	luction, nd poly	appli clona	cations I antibo	s of odies-2	2											
13	Vaccin	e prod	uction,	vaccir	ne type	S												
14	Course evalution and presentations																	
22	Textbooks, References and/or Other Materials:								Temel İmmünoloji Yazarlar: Abul K. Abbas Andrew H. Lichtman. Çeviri Editörleri: Prof.Dr. Yıldız Camcıoğlu Prof.Dr. Günnur Deniz. İstanbul Medikal yayıncılık. 2007									
Activites								1	Numb	er		Dura	ition (hour)	Total Work Load (hour)			
Hidterr Theore	Midterm Exam											3.00			42.00			
Practic	racticals/Labs								0				0.00			0.00		
Self stu	ne work-project U												28.00			28.00		
Homew	neworks											0.00			0.00			
Project	ects 2												0.00			0.00		
Field S	d Studies									0					0.00			
Midtern	lidtorm exams														32.00			
Others	iers											0.00	0.00			0.00		
Final E	xams							1'11				50.00			50.00			
Total W	Vork Loa													184.00				
ECTS (ECTS Credit of the Course									5.07								
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20			CON				(QUA	LIFIC	ATIO	NS	0101	NOC					
	PQ	1 PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	5	2	2	2	5	2	2	5	5	5	0	0	0	0	0	0		
ÖK2	2	2	2	2	5	2	2	5	5	5	0	0	0	0	0	0		
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OK3	5	1	1	0	5	2	4	-		Ŭ	Ŭ	Ŭ	Ŭ	ľ	Ũ	U I		

ÖK5	5	3	2	2	5	2	3	5	5	5	0	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					