INTRODUCTION OF BASIC IMMUNOLOGY

1	Course Title:	INTRODUCTION OF BASIC IMMUNOLOGY
2	Course Code:	TIP2099
3	Type of Course:	Optional
4	Level of Course:	First Cycle
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:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. FERAH BUDAK
15	Course Lecturers:	Prof. Dr. FERAH BUDAK
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi, Tıp Fakültesi, İmmünoloji AD., 16059, Görükle, BURSA e-posta: fbudak@uludag.edu.tr Tel:2954134
17	Website:	
18	Objective of the Course:	This course is aimed to provide the student to comprehend basic features of immune functions and regulation
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	To understand the general aspects of immune system To be informed of names and functions of tissues and cells of immune system To comprehend mechanisms of innate immune system To comprehend mechanisms of adaptive immune system To understand the regulation of immune responses
	2	To be informed of names and functions of tissues and cells of immune system
	3	To comprehend mechanisms of innate immune system
	4	To comprehend mechanisms of adaptive immune system
	5	To understand the regulation of immune responses
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21	Course Content:	

Course Content:	

Week	Theoretical	Practice
1	Introduction to the immune system	
2	Cells and tissues of the immune system	

3	Antigens	
4	Antibodies	
5	Complement	
6	T cell receptors and MHC molecules	
7	Mechanisms of ınnate immunity-I	
8	Mechanisms of ınnate immunity-II	
9	Antigen presentation	
10	Humoral immune reponses	
11	Cell-mediated ımmunity I	
12	Cell-mediated ımmunity II	
13	Immune response against microbes I	
14	Immune response against microbes II	

| 22 | Textbooks, References and/or Other Materials: | 1- Abbas A.K., Lichtman A.H., Pillai S."Cellular and Molecular Immunology", Saunders Elsevier, 9th edition (2018)

2- Kenneth Murphy & Casey Weaver. "Janeway's Immunobiology" Garland Science, 9th edition (2017)

3- Nezih Hekim, Şefik Ş. Alkan, Bağışıklık Bilimi, Nobel Tıp Kitapevleri, 1. Baskı (2017)

4- Abbas A.K., Lichtman A.H. "Temel İmmünoloji"Çev. |

Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	1.00	14.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		14	5.50	77.00
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		1	1.00	1.00
Others		0	0.00	0.00
Final Exams		1	1.00	1.00
Contribution of Term (Year) Learning Activities to Total Work Load				93.00
Total workload/30 hr				3.10
ECTS Credit of the Course				3.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	0	0.00
Final Exam	1	60.00
Final Exams	1	40.00
Contribution of Final Exam to Success Grade		60.00

Measurement and Evaluation Techniques Used in the Course	

24	ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK4	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications				
Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**