BASIC IMMUNOLOGICAL TESTS

1	Course Title:	BASIC IMMUNOLOGICAL TESTS	
2	Course Code:	TİM5003	
3	Type of Course:	Compulsory	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	7.00	
8	Theoretical (hour/week):	1.00	
9	Practice (hour/week):	4.00	
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:		
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi, Tıp Fakültesi, İmmünoloji Anabilim Dalı, 16059, Nilüfer, BURSA E-posta: fbudak@uludag.edu.tr Tel: 2954134	
17	Website:		
18	Objective of the Course:	The aim of this course is to provide the student with an understanding the most commonly used immunological methods and the aim and theory behind those techniques.	
19	Contribution of the Course to Professional Development:	Researchers who understand the mechanisms of immunological tests will be trained.	
20	Learning Outcomes:		
		1	To gain information and skills needed for application of basic immunological laboratory tests
		2	To provide immunological knowledge for evaluating basic immunological laboratory tests
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Antigen-antibody reactions-I	
2	Antigen-antibody reactions-II	
3	Slide agglutination tests	
4	Tube agglutination tests	

5	Blood group typing	
6	Other agglutination tests	
7	Precipitation reactions	
8	Complement fixation tests	
9	Evaluation of serological tests	
10	Nephelometry	
11	Immunoblot	
12	ELISA	
13	Advanced EIA	
14	Fluorescant-antibody technique	

22	Textbooks, References and/or Other Materials:	1. Abbas A.K., Lichtman A.H., Pillai S.”Cellular and Molecular Immunology”, Saunders Elsevier, 8th edition (2012). 2. Rich R.R., Fleisher T.A., Shearer W.T., Kotzin B.L., Schroeder Jr H.W., “Clinical Immunology: Principles and Practice”, Mosby International Ltd., 3rd edition (2008). 3. Stevens C.D., "Clinical Immunology & Serology: Laboratory Perspective", E.A. Davis Company, 3rd edition (2010).
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	0	0.00
Final Exam	1	50.00
Contribution of Term (Year) Learning Activities to Success Grade		50.00
Contribution of Final Exam to Success Grade		50.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		There is a midterm and a final exam in the form as multiple choice, practical and in the form of the classic question

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	14	4.00	56.00
Self study and preperation	14	6.00	84.00
Homeworks	5	10.00	50.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			214.00
Total work load/ 30 hr			7.13
ECTS Credit of the Course			7.00

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	4	3	5	1	0	2	0	0	0	0	0	0	0	0	0	0
ÖK2	3	3	5	1	0	2	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**