



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Immunology Application							
Course Code		TL207		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	76 (Hours)	Theory	0	Practice	2	Laboratory	0
Objectives of the Course		The student will be able to learn basic immunologic terms and perform basic tests in laboratory.							
Course Content		Tests showing antigen antibodymixes' aspects, Tests of hemagglutination, Measurements of quantitative, marked immuno chemical, Methods of immuno chemical based on chemilumine scence, Method of current cytometry, Tests of allergy							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Individual Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Practice Examination	1	110

### Recommended or Required Reading

1	Temel Mikrobiyoloji ve Bağışıklık Bilimi, Prof. Dr. Hakkı Bilgehan
2	İmmunolojiye Giriş, Prof. Dr. Kaya Kılıçturgay

Week	Weekly Detailed Course Contents	
1	Practice	Tests showing antigen antibodymixes' aspects
2	Practice	Tests showing antigen antibodymixes' aspects
3	Practice	Tests of hemagglutination
4	Practice	Tests of hemagglutination
5	Practice	Measurements of quantitative, marked immunochemical
6	Practice	Measurements of quantitative, marked immunochemical
7	Practice	Measurements of quantitative, marked immunochemical
8	Practice	Measurements of quantitative, marked immunochemical
9	Practice	Methods of immunochemical based on chemiluminescence
10	Practice	Methods of immunochemical based on chemiluminescence
11	Practice	Method of current cytometry
12	Practice	Method of current cytometry
13	Practice	Tests of allergy
14	Practice	Tests of allergy
15	Practice	Practice exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Practice	14	2	2	56
Individual Work	8	0	2	16
Practice Examination	1	2	2	4
Total Workload (Hours)				76
[Total Workload (Hours) / 25*] = ECTS				3

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Apply the tests showing antigen antibodymixes' aspects
2	Apply the tests of hemagglutination
3	Apply the measurements of quantitative, marked immunochemical
4	Apply the measurements of immunochemical based on chemiluminescence



5	Apply the method of current cytometry in laboratory
6	Apply the tests of allergy

#### Programme Outcomes (Medical Laboratory Techniques)

1	To be able to have sufficient back ground in medical laboratory techniques and medical laboratory branches (biochemistry, microbiology, parasitology, sitogenetik etc.); the ability to use theoretical and practical knowledge in these fields.
2	To be able to have the basic theoretical and practical knowledge and other resources have been supported applications and tools based on secondary-level qualifications gained in the field of Medical Laboratory Techniques Program to-date text books containing formations
3	To be able to have basic knowledge about structure and function of systems in human, to analyse these data on tissue, cell and diseases.
4	To be able to analyse the medical samples necessary for physicians by using tools, equipment and techniques at the diagnostic and the therapeutic laboratories of health agencies and evaluate the data.
5	To be able to use the medical laboratory tools and equipments according to rules and techniques, and make controls and maintenance of them
6	To be able to perform basic tests of related different medical laboratories, prepare solutions.
7	To be able to perform proper sample collection and transport procedures for the medical laboratory tests from the patient.
8	To be able to perform preanalytical sample preparation procedure, prepare inspection preparations, perform disinfection and sterilization
9	To be able to interpret and evaluate data, define and analyze problems, develop solutions based on research and proofs by using acquired basic knowledge and skills with in the field.
10	To be able to have knowledge about work organization and carry out related practice in medical laboratories
11	To be able to carry out laboratory safety protocols, take individual safety precaution and create safe laboratory environment.
12	To be able to gain the ability to apply by viewing and evaluating the processes related to his/her fields in public and private sector.
13	To be able to gain the awareness of the necessity of life long learning, ability to follow developments in science and technology and self-renewal.
14	To be able to help laboratory experts and medical scientists for their researches
15	To be able to be aware of individual and public health, environmental protection and job security issues, understanding the basic level of the relationship.
16	To be able to grasp principles of Atatürk and their evolutions, to ensure national, ethical, spiritual and cultural values, to adopt to universal and contemporary developments
17	To be able to communicate efficiently for medical service and speak Turkish efficiently.
18	To be able to communicate in English at basic level, utilize foreign language on occupational practice
19	To have the appropriate knowledge of medical sciences at the level of interest, to use specific medical terms and terminology of field

#### Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5	L6
P1	5	5	5	5	5	5
P2	5	5	5	5	5	5
P4	5	5	5	5	5	5
P5	5	5	5	5	5	5
P6	5	5	5	5	5	5
P7	5	5	5	5	5	5
P8	5	5	5	5	5	5
P9	5	5	5	5	5	5
P10	5	5	5	5	5	5
P11	5	5	5	5	5	5
P12	5	5	5	5	5	5
P14	5	5	5	5	5	5

