



AYDIN ADNAN MENDERES UNIVERSITY
AYDIN VOCATIONAL SCHOOL OF HEALTH SERVICES
MEDICAL SERVICES AND TECHNIQUES
MEDICAL LABORATORY TECHNIQUES
COURSE INFORMATION FORM

Course Title	İmmunology								
Course Code	TL205	Course Level			Short Cycle (Associate's Degree)				
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	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 science, Method of current cytometry, Tests of allergy								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study, Individual Study								
Name of Lecturer(s)	Assoc. Prof. Esin POYRAZOĞLU								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

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	Theoretical	Tests showing antigen antibodymixes' aspects
2	Theoretical	Tests showing antigen antibodymixes' aspects
3	Theoretical	Tests of hemagglutination
4	Theoretical	Tests of hemagglutination
5	Theoretical	Measurements of quantitative, markedimmunochemical
6	Theoretical	Measurements of quantitative, marked immunochemical
7	Theoretical	Measurements of quantitative, marked immunochemical
8	Intermediate Exam	Midtermexam
9	Theoretical	Measurements of quantitative, marked immunochemical
10	Theoretical	Methods of immunochemical based on chemiluminescence
11	Theoretical	Methods of immunochemical based on chemiluminescence
12	Theoretical	Method of current cytometry
13	Theoretical	Method of current cytometry
14	Theoretical	Tests of allergy
15	Theoretical	Tests of allergy

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	14	0	1	14
Midterm Examination	1	1	1	2
Final Examination	1	2	1	3
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	1. Apply the tests showing antigen antibodymixes' aspects
2	2. Apply the tests of hemagglutination



3	3. Apply the measurements of quantitative, marked immunochemical
4	4. Apply the measurements of immunochemical based on chemiluminescence
5	5. Apply the method of current cytometry in laboratory
6	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, sitogenetiketc.);the ability to use theoretical and practical knowledge in these fields.
2	To be able to have the basic theoretical and practical knowledgeand 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 boks 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 rapeutic laboratories of health agencies and evaluate the data.
5	To be able to use the medical laboratoy tools and equipments according to rules and technics, 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, under standing the basic level of the relationship.
16	To be able to grasp principles of Atatürk and there volutions, to ensurenational, 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

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

