



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

Course Title	Disease Transmitting Insects								
Course Code	ÇS073			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To get to know insects that transmit pathogens to humans in Turkey, understand the methods of control of these insects and learn the prevention from the diseases.								
Course Content	General characteristics of insects, concept of vector, biological and mechanical transmission, Phlebotamus, Anopheles, Culex, Aedes, Pulex, Pediculus, Musca, Cockroaches and , Hyalomma; morphological and biological features, vector species, ecology, transmitted diseases, epidemiology, prevention and control of insect vectors.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study								
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Böcek- Sinan Tuzcu
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Week	Weekly Detailed Course Contents	
1	Theoretical	General characteristics of insects
2	Theoretical	Concept of vector, biological and mechanical transmission
3	Theoretical	Phlebotamus (Tatarcık); morfolojik ve biyolojik özellikleri, vektör türleri, ekolojisi, Şark Çıbanı, epidemiyolojisi, korunma yolları
4	Theoretical	Phlebotamus (Sand flies); Kala-Azar, epidemiology, prevention
5	Theoretical	Anopheles (Mosquitoes); morphological and biological features, vector species, ecology, Malaria, epidemiology, prevention
6	Theoretical	Culex, Aedes (Mosquitoes); morphological and biological features, vector species, ecology, Filariasis, epidemiology, prevention
7	Theoretical	Culex, Aedes (Mosquitoes); West Nile virus, epidemiology, prevention
8	Theoretical	Midterm Exam
9	Theoretical	Pulex (Fleas); morphological and biological features, vector species, ecology, Plague, epidemiology, prevention
10	Theoretical	Pulex (Fleas); morphological and biological features, vector species, ecology, Plague, epidemiology, prevention
11	Theoretical	Pediculus (Louse); morphological and biological features, vector species, ecology, transmitted diseases, epidemiology, prevention
12	Theoretical	Cockroaches; morphological and biological features, vector species, ecology, transmitted diseases, epidemiology, prevention
13	Theoretical	Musca domestica (House flies); morphological and biological features, ecology, transmitted diseases, epidemiology, prevention
14	Theoretical	The important noninsect vector: Hyalomma (Ticks) (Acari: Ixodidae); morphological and biological features, vector species, ecology, transmitted diseases, epidemiology, prevention
15	Theoretical	Control of insect vectors

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Midterm Examination	1	2	1	3



Final Examination	1	4	1	5
	Total Workload (Hours)			50
	[Total Workload (Hours) / 25*] = ECTS			2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To able to recognize the insects
2	2. To able to learn concept of vector
3	To able to learn human diseases that transmitted by insects in Turkey
4	4. To gain knowledge about prevention methods of diseases that transmitted by insects
5	Define the morphological features of insects

Programme Outcomes (Medical Laboratory Techniques)

1	To be able to have sufficient background in medical laboratory techniques and medical laboratory branches (biochemistry, microbiology, parasitology, cytogenetics); 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 textbooks 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 values, 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

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

	L1	L2	L3	L4
P2	3	3	3	3
P10	2	2	2	2
P11	2	2	2	2
P13	4	4	4	4
P15	4	4	4	4

