



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

Course Title	Basic Topics In Biology II								
Course Code	ÇS007			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To inform the students who are educated in the health field about the tissues which is formed the living being, and systems. Also informed about the evolution of these systems from single-celled protists to multi-celled mammalian.								
Course Content	Tissues and its' varieties, circulatory, respiratory, digestive, support and movement, reproductive, nervous system, hormones and the five senses.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study, Individual Study								
Name of Lecturer(s)	Lec. Sevil ÖZCAN								

#### Assessment Methods and Criteria

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

#### Recommended or Required Reading

1	Genetic (2003) William S. Klug & Michael R. Cummings (Trans. Prof. Dr. Cihan Öner), Palme Press.
2	Basic Rules of The Life Vol. 1 (2004) Prof. Ali Demirsoy, Meteksan
3	Biology (2000) William T. Keeton, James L. Gould & Carol Grant Gould (Trans. Prof. Dr. Ali Demirsoy, Prof. Dr. İsmail Türkan ve Prof. Dr. Ertunç Gündüz) Palme Press.

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of the tissue, varieties and its' importance for living being.
2	Theoretical	Herbal tissues.
3	Theoretical	Animal tissues (epithelium, connective tissue).
4	Theoretical	Animal tissues (blood, muscular, nevre tissue).
5	Theoretical	Circulatory system, its' tasks and variety.
6	Theoretical	Respiratory system, its' tasks and variety.
7	Theoretical	Midterm
8	Theoretical	Digestive system, its' tasks and variety.
9	Theoretical	Skelatal and Muscular systems, its'tasks and variety.
10	Theoretical	Excretory system, its' tasks and variety.
11	Theoretical	Reproductive system, its' tasks and variety.
12	Theoretical	Nevrous system, its' tasks and variety.
13	Theoretical	Endocrine system, hormones, variety, tasks and their functionings.
14	Theoretical	The five senses (seeing, hearing, smelling).
15	Theoretical	The five senses (the sense of touch, taste).

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	3	5	2	21
Midterm Examination	1	10	1	11
Final Examination	1	14	1	15
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	Knows the tissue definition, types and the importance of the textural formation for living organisms.
2	Knows the duties of the different systems, and the occurrence of different types of systems in living things, and have different varieties of them depending on the environment.
3	Knows the types and functions of the hormones in living things.
4	Knows the five senses and their types in different living groups.
5	Knows the types of systems in different living things.

**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
P1	4	4	4	4	4
P2	4	4	4	4	4
P3	4	4	4	4	4
P4	1	1	1	1	1
P5	5	5	5	5	5
P6	1	1	1	1	1
P7	5	5	5	5	5
P8	1	1	1	1	1
P9	3	3	3	3	3
P10	2	2	2	2	2
P11	2	2	2	2	2
P12	1	1	1	1	1
P13	3	3	3	3	3
P14	1	1	1	1	1
P15	5	5	5	5	5
P16	3	3	3	3	3



P17	3	3	3	3	3
P18	3	3	3	3	3

