



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

Course Title	Histology								
Course Code	AN001	Course Level			Short Cycle (Associate's Degree)				
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Most small to teach the properties of the tissue they came together and formed the living unit, the cell with the general structure of cells and cell division.								
Course Content	Learning the characteristics of the tissue.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Junqueira's Temel Histoloji

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of cell size, shape, structure, cytoplasm, Form Factors
2	Theoretical	Organeller - Membransel Organeller; Hücre zarı, Ergastoplazma, Golgi Aygıtı, Lizozomlar, Mikrocisimler, Mitokondriyonlar
3	Theoretical	Nonmembranous organeller; Centrosome, warp threads, Myofibrillar, neurofibrillary, Tonofibrils. Cytoplasm inclusions.
4	Theoretical	Hücre içi haberci sistemleri, Çekirdek; Çekirdek Zarı, Kromatin, Nükleik Asitlerin Moleküler Yapıları, Nükleik Asitlerin Sentezlenmeleri, Seks Kromatini, Çekirdekçik, Çekirdek Sıvısı.
5	Theoretical	Cell division; Amylose division, Mitosis, Meiosis, Cell Cycle, Cell Differentiation
6	Theoretical	Epithelial tissue; Covering epithelium, secretory epithelium, Kassel epithelium, sensory epithelium
7	Theoretical	Connective Tissue; Connective tissue cells; Mesenchymal cells, reticulum cells, fibroblasts, macrophages, fat cells, plasma cells, mastocytes, Pigment Cells
8	Intermediate Exam	Midterm
9	Theoretical	Connective Tissue Types; Mesenchymal tissue, mucous connective tissue, connective tissue loose, tight (compact), connective tissue, reticular connective tissue, fat tissue
10	Theoretical	Cartilage tissue; Hyaline cartilage, elastic cartilage, fibrous cartilage, cartilage Membrane
11	Theoretical	Bone tissue; Microscopic structure of compact bone, bone cells, Ossification, repair of fractures, joints
12	Theoretical	Blood Tissues; Red blood cells, reticulocytes, Leukocytes; Agronulosit, Thrombocytes, Lymph, Blood Cell Production
13	Theoretical	Muscle tissue, Skeletal Muscle Tissue Heart Muscle tissue, smooth muscle tissue
14	Theoretical	Nerve Tissue; Nerve Cell, Myelin Sheath, neural I, Synapses, Intermediates of Nerve Tissue
15	Theoretical	An overview
16	Final Exam	final

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Midterm Examination	1	8	1	9



Final Examination	1	9	1	10
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	The overall structure of the cell membrane structure and function of membranes, learn microscopic image and functions of the cell organelles.
2	2. Learn more about the features of the division of cell division varieties.
3	3. types of tissues, learn microscopic appearance and functions.
4	learn organelles
5	basic cell information

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	5	5	5	5	5
P3	5	5	5	5	5
P4	4	4	4	4	4
P5	2	2	2	2	2
P6	4	4	4	4	4
P7	4	4	4	4	4
P8	5	5	5	5	5
P9	5	5	5	5	5
P10	3	3	3	3	3
P11	4	4	4	4	4



P12	2	2	2	2	2
P13	4	4	4	4	4
P14	2	2	2	2	2
P15	3	3	3	3	3
P16	1	1	1	1	1
P17	3	3	3	3	3
P18	5	5	5	5	5

