



AYDIN ADNAN MENDERES UNIVERSITY 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)		Lec. Şengül ŞENTÜRK							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Junqueira's Temel Histoloji
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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 organelles; 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	Connective Tissue Types; Mesenchymal tissue, mucous connective tissue, connective tissue loose, tight (compact), connective tissue, reticular connective tissue, fat tissue
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

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 (Physiotherapy)

1	To be able to recall the information of research methods and statistics so as to follow the developments, monitor and interpret scientific literature
2	To have the appropriate knowledge of basic sciences at the level of interest, to use specific medical terms and terminology of physical therapy
3	To be able to recall knowledge of the general structure and properties of musculoskeletal system and the joints and to evaluate the story of musculoskeletal diseases.
4	To be able to comprehend the methods of measurement of the range of motion of joints and to measure it.
5	To be able to implement a general evaluation of posture analysis and gait analysis.
6	To be able to recall the knowledge about general characteristics of musculoskeletal diseases, osteoporosis, osteoarthritis, rheumatoid arthritis, ankylosing spondylitis, especially rheumatic diseases, mechanical low back and neck pain, disc herniation, soft tissue disorders and to apply appropriate physiotherapy.
7	To be able to recall the knowledge and gain skills about the devices and the agents of heater used in physical therapy, indications and contraindications of using, and the necessary information about how to apply on patients.
8	To be able to recall the knowledge of the electromagnetic field.
9	To be able to recall what Elektroakupunktur, Laser, Biofeedback, cervical and lumbar traction systems, pneumatic compression therapy are, and how to apply them, which one is applicable to patients.
10	To be able to recall what manipulation-mobilization is and which patients are suitable for this application.
11	To be able to recall what massage and hydrotherapy treatments are and which patients are suitable for these applications.
12	To be able to gain the professional and ethical awareness, apply gained knowledge and skills in real life situations and transfer gained knowledge to individuals around her/his environment, and improve behavior of life-long learning.
13	To gain knowledge about methods of diagnosis, protection and treatment of diseases
14	To be able to recall the knowledge and gain skills about physical therapy and rehabilitation methods to be applied to neurological disorders.
15	To be able to recall the knowledge and gain skills about physical therapy and rehabilitation methods to be applied to cardiopulmonary disorders.
16	To be able to recall the knowledge and gain skills about physical therapy and rehabilitation methods to be applied to pediatric patients.
17	To be able to gain knowledge about the effects of fitness and exercise on metabolism and responses of body systems to them.
18	To have knowledge about rehabilitation services
19	To become individuals who can do interdisciplinary team work, with a sense of social responsibility and entrepreneur.
20	To be able to recall the knowledge about Atatürk's Principles and the History of Turkish Revolution.
21	To be able to gain the knowledge and ability to become contemporary individuals who can use Turkish language grammar well and know a foreign language knowledge necessary to follow the developments in the profession.

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

	L1	L2	L3	L4	L5
P3	5	5	5	5	5
P4	3	3	3	3	3

