

GAZI UNIVERSITY FACULTY OF MEDICINE
2020-2021 ACADEMIC YEAR
TISSUE BIOLOGY COMMITTEE I
(DECEMBER 09- DECEMBER 23, 2020)

COURSES	THEORETICAL
ANATOMY	28
HISTOLOGY AND EMBRYOLOGY	16
PHYSIOLOGY	12
BIOPHYSICS	4
TOTAL	66

MEMBERS OF COMMITTEE

ANATOMY	HISTOLOGY AND EMBRYOLOGY	PHYSIOLOGY	BIOPHYSICS
Dr. Meltem BAHÇELİOĞLU	Dr. Çiğdem ELMAS	Dr. Meltem SEVGİLİ	Dr. M. Arda EŞMEKAYA
Dr. Ece ALİM	Dr. Zeynep YIĞMAN	Dr. Pelin TURKKAN	
	Dr. Duygu DAYANIR		

LEARNING OBJECTIVES

Aim:

At the end of this committee, year I students are aimed to define bone, epithelial, ligament and joint types, movements in joints, identification of nerve tissue, determination of morphological importance, and demonstration of biochemical properties.

To be able to define the concepts of sound, ultrasound, piezoelectric and tell their use in the clinic

NR of LEARNING OBJECTIVE

ÖH-100-4-1 To understand the general information about the bones and joints in our body, to tell the locations, types and functions of the bones, to evaluate the relationship with clinical situations

ÖH-100-4-2 To be able to tell the types and components of the covering and gland epithelium, cartilage and bone tissue, from which germ leaf it develops, and its features

ÖH-100-4-3 Ability to define the organic and inorganic matrix of bone tissue

ÖH-100-4-4 Ability to explain electrical properties and electrical equivalent models of membrane and cell

ÖH-100-4-5 Evaluating the reason and necessity of biological potential difference, calculating the cell potential with different models and finding ion currents

ÖH-100-4-6 To be able to explain the physical properties of sound and ultrasound formation, the importance of piezoelectric phenomena in ultrasound formation

ÖH-100-4-7 To be able to tell the fields where ultrasound is used in medicine and its purposes

ÖH-100-4-8 To be able to talk about piezoelectric structures in tissue, to explain invasive and non-invasive techniques in healing bone fractures with bone electric current

ÖH-100-4-9 To be able to count fluid compartments and content differences in the body

ÖH-100-4-10 To be able to count and interpret transport mechanisms in cell membrane

ÖH-100-4-11 Osmosis, to be able to explain the importance of osmotic pressure in organism

ÖH-100-4-12 To be able to tell signal transduction pathways in the control of cells with chemical messengers

ÖH-100-4-13 To be able to explain the basic properties of membrane potentials and action potentials

Skill:

ÖH-100-4-14 To be able to distinguish and show bones of cranium, cavitas cranii, neurocranium and viscerocranium

ÖH-100-4-15 To be able to show the places and ligaments of the joints in the body

ÖH-100-4-16 Being able to apply the skills of reaching information, self-learning, analytical thinking and working as a team

ÖH-100-4-17 To be able to distinguish the types of covering and gland epithelium under microscope

ÖH-100-4-18 Accurate measurement by using laboratory materials

Attitude:

ÖH-100-4-19 Recognizing the importance of the use of cadavers and the responsibility to behave in a way not to damage the cadaver and tissues

ÖH-100-4-20 Awareness of the importance of group work and cooperation in practical applications

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9th Week	07.12.2020 MONDAY	08.12.2020 TUESDAY	09.12.2020 WEDNESDAY	10.12.2020 THURSDAY	11.12.2020 FRIDAY
10:00-10:30 10:30-11:00				Body fluid compartments and properties Dr. M. Sevgili	Vertebral columnne, thoracic wall skeletal framework: sternum, ribs Dr. E. Alim
			Introduction to human anatomy Dr. M. Bahçelioğlu	Introduction and general knowledge about the bones Dr. E. Alim	Vertebral columnne, thoracic wall skeletal framework: sternum, ribs Dr. E. Alim
11:00-11:30 11:30-12:00			Anatomicomedical terminology Dr. M.Bahçelioğlu	Introduction and general knowledge about the joints Dr. E. Alim	Thoracic wall and vertebrae joints Dr. E. Alim
			Anatomicomedical terminology Dr. M.Bahçelioğlu	Introduction and general knowledge about the joints Dr.E. Alim	Molecular regulation of extracellular- cell communication Dr. Ç. Elmas
14:00-14:30 14:30-15:00			Overview of epithelial structure and surface epithelium Dr. D. Dayanır	Intercellular and intracellular signal transmission Dr. M. Sevgili	Connective tissue Dr. Z. Yiğman
			Overview of epithelial structure and surface epithelium Dr. D. Dayanır	Intercellular and intracellular signal transmission Dr. M. Sevgili	Connective tissue Dr. Z. Yiğman
15:00-15:30 15:30-16:00			Overview of epithelial structureand surface epithelium Dr. D. Dayanır	Glands epithelium Dr. Z. Yiğman	Transport of substances through the cell membrane Dr. P. Türkkan
			Introduction of Physiology, milieu interiour, homeostasis Dr. M. Sevgili	Glands epithelium Dr. Z. Yiğman	Transport of substances through the cell membrane Dr. P. Türkkan

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10th Week	14.12.2020 MONDAY	15.12.2020 TUESDAY	16.12.2020 WEDNESDAY	17.12.2020 THURSDAY	18.12.2020 FRIDAY
10:00-10:30 10:30-11:00	Neurocranium Dr. M. Bahçelioğlu	Viscerocranium Dr. M. Bahçelioğlu	Bones of the shoulder girdle Dr. M. Bahçelioğlu	Upper limb joints Dr. M. Bahçelioğlu	Bony pelvis Dr. E. Alim
	Neurocranium Dr. M. Bahçelioğlu	Viscerocranium Dr. M. Bahçelioğlu	Upper limb bones Dr. M. Bahçelioğlu	Clinical anatomy Dr. M. Bahçelioğlu	Lower limb bones Dr. E. Alim
11:00-11:30 11:30-12:00	Neurocranium Dr. M. Bahçelioğlu	Cranium and various aspects, temporomandibular joint Dr. M. Bahçelioğlu	Bone Dr. Z. Yiğman	Clinical anatomy Dr. M. Bahçelioğlu	Lower limb joints Dr. E. Alim
	Neurocranium Dr. M. Bahçelioğlu	Cranium and various aspects, temporomandibular joint Dr. M. Bahçelioğlu	Bone Dr. Z. Yiğman	Ossification and bone formation Dr. Z. Yiğman	Lower limb joints Dr. E. Alim
14:00-14:30 14:30-15:00	Connective tissue Dr. Z. Yiğman	Transport of substances through the capillaries Dr. P. Türkkkan		Bioelectrical potentials Dr. M. Sevgili	Articulation Dr. Z. Yiğman
	Connective tissue Dr. Z. Yiğman	Transport of substances through the capillaries Dr. P. Türkkkan		Bioelectrical potentials Dr. M. Sevgili	Piezoelectric structures in tissues, recovery of bone break, invasive and non-invasive techniques Dr. M. A. Eşmekaya
15:00-15:30 15:30-16:00	Cartilage Dr. Z. Yiğman			Bioelectrical potentials Dr. M. Sevgili	Piezoelectric structures in tissues, recovery of bone break, invasive and non-invasive techniques Dr. M. A. Eşmekaya
	Cartilage Dr. Z. Yiğman			Bioelectrical potentials Dr. M. Sevgili	FREE TIME

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11th Week	21.12.2020 MONDAY	22.12.2020 TUESDAY	23.12.2020 WEDNESDAY	22.12.2020 THURSDAY	25.12.2020 FRIDAY
10:00-10:30 10:30-11:00	Clinical anatomy Dr. M. Bahçelioğlu	FREE TIME	4th COMMITTEE THEORETICAL EXAM Hour: 11:00		
	Clinical anatomy Dr. M. Bahçelioğlu	FREE TIME			
11:00-11:30 11:30-12:00	Sound, physical characteristics and formation of sound, Ultrasound Dr. M.A. Eşmekaya	FREE TIME			
	Sound, physical characteristics and formation of sound, Ultrasound Dr. M.A. Eşmekaya	FREE TIME			
14:00-14:30 14:30-15:00	FREE TIME	FREE TIME			
	FREE TIME	FREE TIME			
15:00-15:30 15:30-16:00	FREE TIME	FREE TIME			
	FREE TIME	FREE TIME			