

GAZİ UNIVERSITY MEDICAL FACULTY

PHASE I

TISSUE BIOLOGY COMMITTEE I

(FEBRUARY 12 2018-MARCH 23 2018)

COURSES	THEORETICAL	PRACTICAL	TOTAL
ANATOMY	27	10X2	47
HISTOLOGY AND EMBRYOLOGY	16	8x2	32
PHYSIOLOGY	12	4X2	20
BIOPHYSICS	10	---	10
TOTAL	65	44	109
ELECTIVE COURSE	6	--	6
TOTAL	71	44	115

OBLIGATORY COURSES

Turkish Language	6
Ataturk's Principles and History of His Revolutions	6
Medical English	6

* Community Based Medical Education (CBME) trainings will be performed with the academic advisors parallel to the ongoing program as one hour per week.

Dean	Prof. Dr. Mehmet Sadık DEMİRİSOY
Vice Dean	Assoc. Prof. Dr. Taner AKAR
Vice Dean	Assoc. Prof. Dr. Okşan DERİNÖZ GÜLERYÜZ
Head Coordinator	Prof. Dr. Anıl ONAN
Assistant Head Coordinator	Prof. Dr. Mehmet Ali ERGÜN
Assistant Head Coordinator	Prof. Dr. Işıl İrem BUDAKOĞLU
Assistant Head Coordinator	Assoc. Prof. Dr. L. Arzu ARAL
Phase I Coordinator	Assoc. Prof. Dr. Canan YILMAZ
Assistant Phase I Coordinator	Lecturer, Dr. Asiye UĞRAŞ DİKMEN
Assistant Phase I Coordinator	Assoc. Prof. Dr. Cengiz KARAKAYA
Assistant Phase I Coordinator	Assoc. Prof. Dr. Atiye Seda YAR SAĞLAM

MEMBERS OF COMMITTEE

ANATOMY	HISTOLOGY AND EMBRYOLOGY	PHYSIOLOGY	BIOPHYSICS
Dr. Meltem BAHÇELİOĞLU	Dr. Candan ÖZOĞUL	Dr. Lamia PINAR	Dr. Bahriye SIRAV ARAL
	Dr. Çiğdem ELMAS	Dr. Deniz ERBAŞ	
ANATOMY LABORATORY			
Dr. Meltem BAHÇELİOĞLU			
HISTOLOGY AND EMBRYOLOGY LABORATORY			
Dr. Candan ÖZOĞUL	Dr. Suna ÖMEROĞLU	Dr. Çiğdem ELMAS	Dr. Gülnur TAKE KAPLANOĞLU
PHYSIOLOGY LABORATORY			
Dr. Lamia PINAR	Dr. Deniz ERBAŞ	Dr. Şevin GÜNEY	

Elective Course Coordinator	Dr. Ece KONAÇ
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Aim:

At the end of 30 working days first semester students were aimed to define bone, epithelium, ligament and joint types, movements in joints, definition of nerve tissue, determination of

morphological importance, demonstration of biochemical properties. To be able to define the concepts of sound, ultrasound, piezoelectric and to use it in clinical practice.

Learning Objectives:

Knowledge:

1. Understanding the general knowledge about the bones in our body, telling the places, types and functions of the bones
2. Understanding the general knowledge about the joints in our body, able to say places, types and functions of joints
3. Be able to evaluate the relationship of bone anatomic knowledge to clinical situations
4. Be able to evaluate the relation of anatomical knowledge of the joint to clinical situations
5. To tell which germ layer the cover epithelium develops, and its properties
6. To be able to define gland epithelium, connective tissue, explain which germ layer develops
7. Be able to tell which cartilage tissue cells, components, types, and germ layers develop from cartilage
8. Be able to tell bone cells, components, types and which germ layer of bone tissue develops
9. Be able to define organic and inorganic matrix of bone tissue
10. To be able to define the structure of joints
11. To be able to explain the electrical properties of membranes and cells and electrical equivalent models
12. Evaluate the cause and necessity of biological potential difference, calculate cell potential with different models, find ion currents
13. To be able to explain physical properties of sound and ultrasound formation, importance of piezoelectric phenomenon in ultrasound formation
14. Be able to tell the areas where the ultrasound is used and their purposes
15. To be able to talk about the piezoelectric structures in the tissue, to explain the invasive and non-invasive techniques in improving bone electric current and bone fractures
16. Counting the fluid compartments and content differences in the body
17. To be able to count and interpret the transport mechanisms of the cell membrane
18. Osmosis, explain the importance of osmotic pressure in organism
19. Be able to tell the way of signal transmission of cells in control with chemical messengers
20. Explain the basic properties of membrane potentials and action potentials
21. To be able to examine basic medical concepts through script

Skill:

22. To be able to distinguish and show cranium, cavitas cranii, neurocranium and viscerocranium bones
23. Be able to show the location and bonds of joints in the body
24. Ability to access knowledge, self-learning, analytical thinking and ability to work as a team
25. To be able to distinguish types of cover and gland epithelium under microscope
26. Be able to examine tissues in microscope

27. Make accurate measurements using laboratory materials

Attitude:

28. Be aware of the responsibility of acting in a way that does not damage the cadaver and the tissues

29. Be aware of the importance of group work and cooperation in practical applications

	12.02.2018 MONDAY	13.02.2018 TUESDAY	14.02.2018 WEDNESDAY	15.02.2018 THURSDAY	16.02.2018 FRIDAY
08:30-09:20	Introduction to human anatomy Dr. M. Bahçelioğlu	FREE TIME	Introduction and general knowledge about the joints Dr. M. Bahçelioğlu	App.course anatomy 1	Connective tissue Dr. Ç. Elmas
09:30-10:20	Anatomicomedical terminology Dr. M. Bahçelioğlu	Overview of epithelial structure and surface epithelium Dr. Ç. Elmas	Introduction and general knowledge about the joints Dr. M. Bahçelioğlu	App.course anatomy 1	Connective tissue Dr. Ç. Elmas
10:30-11:20	Anatomicomedical terminology Dr. M. Bahçelioğlu	Overview of epithelial structure and surface epithelium Dr. Ç. Elmas	Glands epithelium Dr. C. Özoğul	App.course anatomy 1	Signal transmission in the cell Dr. D. Erbaş
11:30-12:20	Introduction and general knowledge about the bones Dr. M. Bahçelioğlu	Overview of epithelial structure and surface epithelium Dr. Ç. Elmas	Glands epithelium Dr. C. Özoğul	App.course anatomy 1	Signal transmission in the cell Dr. D. Erbaş
13:30-14:20	ELECTIVE COURSE	Vertebral columnne, thoracic wall skeletal framework: sternum, ribs Dr. M. Bahçelioğlu	Thoracic wall and vertebrae joints Dr. M. Bahçelioğlu	Neurocranium Dr. M. Bahçelioğlu	Neurocranium Dr. M. Bahçelioğlu
14:30-15:20	ELECTIVE COURSE	Vertebral columnne, thoracic wall skeletal framework: sternum, ribs Dr. M. Bahçelioğlu	FREE TIME	Introduction of Physiology, milieu interieur, homeostasis Dr. D. Erbaş	FREE TIME
15:30-16:20	ENG 104	FREE TIME	FREE TIME	Body fluid compartments and properties Dr. D.Erbaş	FREE TIME
16:30-17:20	ENG 104	FREE TIME	FREE TIME	FREE TIME	FREE TIME

	19.02.2018 MONDAY	20.02.2018 TUESDAY	21.02.2018 WEDNESDAY	22.02.2018 THURSDAY	23.02.2018 FRIDAY
08:30-09:20	Neurocranium Dr. M. Bahçelioğlu	Reason of Biological Potential Difference: Asymmetry Dr. B. Sıray Aral	FREE TIME	Transport of substances through the cell membrane Dr. D. Erbaş	FREE TIME
09:30-10:20	Neurocranium Dr. M. Bahçelioğlu	Reason of Biological Potential Difference: Asymmetry Dr. B. Sıray Aral	FREE TIME	Transport of substances through the cell membrane Dr. D. Erbaş	FREE TIME
10:30-11:20	Connective tissue Dr. Ç. Elmas	Transport of substances through the capillaries Dr. D. Erbaş	Viscerocranium Dr. M. Bahçelioğlu	Viscerocranium Dr. M. Bahçelioğlu	FREE TIME
11:30-12:20	Connective tissue Dr. Ç. Elmas	Transport of substances through the capillaries Dr. D. Erbaş	Molecular regulation of extracellular-cell communication Dr. Ç. Elmas	Cranium and various aspects, temporomandibular joint Dr. M. Bahçelioğlu	FREE TIME
13:30-14:20	ELECTIVE COURSE	Cartilage Dr. C. Özoğul	App.course histology1	App.course anatomy 2	App.course histology2
14:30-15:20	ELECTIVE COURSE	Cartilage Dr. C. Özoğul	App.course histology1	App.course anatomy 2	App.course histology2
15:30-16:20	ENG 104	FREE TIME	App.course histology1	App.course anatomy 2	App.course histology2
16:30-17:20	ENG 104	FREE TIME	App.course histology1	App.course anatomy 2	App.course histology2

	26.02.2018 MONDAY	27.02.2018 TUESDAY	28.02.2018 WEDNESDAY Anat Exam DII	01.03.2018 THURSDAY Hist exam DII	02.03.2018 FRIDAY PHASE II EXAM
08:30-09:20	App.course anatomy 3	FREE TIME	App.course histology3 App.course physiology 1	App.course anatomy 4	App.course anatomy 5 App.course histology 4
09:30-10:20	App.course anatomy 3	FREE TIME	App.course histology3 App.course physiology 1	App.course anatomy 4	App.course anatomy 5 App.course histology 4
10:30-11:20	App.course anatomy 3	Membranes And Electrical Properties of Cells, Electrical Equivalent Cell Models Dr. B. Sırav Aral	App.course histology3 App.course physiology 1	App.course anatomy 4	App.course anatomy 5 App.course histology 4
11:30-12:20	App.course anatomy 3	Membranes And Electrical Properties of Cells, Electrical Equivalent Cell Models Dr. B. Sırav Aral	App.course histology3 App.course physiology 1	App.course anatomy 4	App.course anatomy 5 App.course histology 4
13:30-14:20	ELECTIVE COURSE	Bones of the shoulder girdle Dr. M. Bahçelioğlu	Bone Dr. C. Özoğul	Bioelectrical potentials Dr. L. Pınar	Upper limb joints Dr. M. Bahçelioğlu
14:30-15:20	ELECTIVE COURSE	Upper limb bones Dr. M. Bahçelioğlu	Bone Dr. C. Özoğul	Bioelectrical potentials Dr. L. Pınar	FREE TIME
15:30-16:20	ENG 104	Transport of substances through the capillaries Dr. D. Erbaş	FREE TIME	FREE TIME	FREE TIME
16:30-17:20	ENG 104	FREE TIME	FREE TIME	FREE TIME	FREE TIME

	05.03.2018 MONDAY	06.03.2018 TUESDAY	07.03.2018 WEDNESDAY	08.03.2018 THURSDAY	09.03.2018 FRIDAY
08:30-09:20	FREE TIME	App.course histology 5 App.course physiology 2	App.course anatomy 6 App.course histology 6	FREE TIME	Lower limb joints Dr. M. Bahçelioğlu
09:30-10:20	FREE TIME	App.course histology 5 App.course physiology 2	App.course anatomy 6 App.course histology 6	FREE TIME	Lower limb joints Dr. M. Bahçelioğlu
10:30-11:20	Ossification and bone formation Dr. C. Özoğul	App.course histology 5 App.course physiology 2	App.course anatomy 6 App.course histology 6	Bony pelvis Dr. M. Bahçelioğlu	Evaluation of Cell Potential... Dr. B. Sirav Aral
11:30-12:20	Articulation Dr. C. Özoğul	App.course histology 5 App.course physiology 2	App.course anatomy 6 App.course histology 6	Lower limb bones Dr. M. Bahçelioğlu	Evaluation of Cell Potential... Dr. B. Sirav Aral
13:30-14:20	ELECTIVE COURSE	Clinical anatomy Dr. M. Bahçelioğlu	Bioelectrical potentials Dr. L. Pınar	App.course anatomy 7 App.course histology 7	Sound, physical characteristics and formation of sound, Ultrasound Dr. B. Sirav Aral
14:30-15:20	ELECTIVE COURSE	Clinical anatomy Dr. M. Bahçelioğlu	Bioelectrical potentials Dr. L. Pınar	App.course anatomy 7 App.course histology 7	Sound, physical characteristics and formation of sound, Ultrasound Dr. B. Sirav Aral
15:30-16:20	ENG 104	FREE TIME	FREE TIME	App.course anatomy 7 App.course histology 7	FREE TIME
16:30-17:20	ENG 104	FREE TIME	FREE TIME	App.course anatomy 7 App.course histology 7	FREE TIME

	12.03.2018 MONDAY	13.03.2018 TUESDAY	14.03.2018 WEDNESDAY	15.03.2018 THURSDAY	16.03.2018 FRIDAY
08:30- 09:20	App.course anatomy 8 App.course physiology 3	App.course anatomy 9 App.course histology 8	FREE TIME	FREE TIME	FREE TIME
09:30- 10:20	App.course anatomy 8 App.course physiology 3	App.course anatomy 9 App.course histology 8	FREE TIME	FREE TIME	FREE TIME
10:30- 11:20	App.course anatomy 8 App.course physiology 3	App.course anatomy 9 App.course histology 8	Piezoelectric structures in tissues, recovery of bone break, invasive and non- invasive techniques Dr. B. Sırav Aral	FREE TIME	FREE TIME
11:30- 12:20	App.course anatomy 8 App.course physiology 3	App.course anatomy 9 App.course histology 8	Piezoelectric structures in tissues, recovery of bone break, invasive and non- invasive techniques Dr. B. Sırav Aral	FREE TIME	FREE TIME
13:30- 14:20	ELECTIVE COURSE	Clinical anatomy Dr. M. Bahçelioğlu	App.course anatomy 10 App.course physiology 4	FREE TIME	FREE TIME
14:30- 15:20	ELECTIVE COURSE	Clinical anatomy Dr. M. Bahçelioğlu	App.course anatomy 10 App.course physiology 4	FREE TIME	FREE TIME
15:30- 16:20	ENG 104	FREE TIME	App.course anatomy 10 App.course physiology 4	FREE TIME	FREE TIME
16:30- 17:20	ENG 104	FREE TIME	App.course anatomy 10 App.course physiology 4	FREE TIME	FREE TIME

	19.03.2018 MONDAY	20.03.2018 TUESDAY	21.03.2018 WEDNESDAY	22.03.2018 THURSDAY	23.03.2018 FRIDAY PHASEIII EXAM
08:30-09:20	FREE TIME	FREE TIME	PHASE I Anatomy PRACTICAL EXAMINATION	PHASE I PRACTICAL EXAMINATION	FREE TIME
09:30-10:20	FREE TIME	FREE TIME	PHASE I Anatomy PRACTICAL EXAMINATION	PHASE I PRACTICAL EXAMINATION	FREE TIME
10:30-11:20	FREE TIME	FREE TIME	PHASE I Anatomy PRACTICAL EXAMINATION	PHASE I PRACTICAL EXAMINATION	FREE TIME
11:30-12:20	FREE TIME	FREE TIME	PHASE I Anatomy PRACTICAL EXAMINATION	PHASE I PRACTICAL EXAMINATION	FREE TIME
13:30-14:20	ELECTIVE COURSE	FREE TIME	PHASE I Anatomy PRACTICAL EXAMINATION	PHASE I PRACTICAL EXAMINATION	PHASE I THEORETICAL EXAMINATION
14:30-15:20	ELECTIVE COURSE	FREE TIME	PHASE I Anatomy PRACTICAL EXAMINATION	PHASE I PRACTICAL EXAMINATION	PHASE I THEORETICAL EXAMINATION
15:30-16:20	ENG 104	FREE TIME	PHASE I Anatomy PRACTICAL EXAMINATION	PHASE I PRACTICAL EXAMINATION	PHASE I THEORETICAL EXAMINATION
16:30-17:20	ENG 104	FREE TIME	PHASE I Anatomy PRACTICAL EXAMINATION	PHASE I PRACTICAL EXAMINATION	PHASE I THEORETICAL EXAMINATION

PHASE I THEORETICAL EXAMINATION TIME: 13:30