

GAZİ UNIVERSITY FACULTY OF MEDICINE
2023-2024 EDUCATIONAL YEAR 2

DIGESTIVE SYSTEM AND METABOLISM
COMMITTEE

(02.01.2024 – 06.03.2024)

COURSES	THEORETICAL	LABORATORY	PRACTICAL	TOTAL
Anatomy	26	5x2		36
Biophysics	8	-		8
Physiology	22	1x2		24
Histology and Embryology	12	6x2		24
Medical Biochemistry	44	6x2		56
TOTAL	112	36		148
Elective Courses	14			14
INTRODUCTION TO MEDICINE				
Problem Based Learning (PBL)			3x2	6
Clinical Skills Education (CSE)			1x2	2
Medical English	14			14
Analysis of 2nd Committee Exam and Feedback	1			1
TOTAL	141	36	8	185
TOTAL FREE STUDY TIME	128 hours			

Total 37 work days.

Free study time definition: Individual studying courses intended for learning in accordance with the present committee.

04.03.2024	MONDAY	YEAR II APPLIED EXAM	Time: 08.30
05.03.2024	TUESDAY	YEAR II APPLIED EXAM	Time: 08.30
06.03.2024	WEDNESDAY	YEAR II THEORETICAL EXAM	Time: 09.30

Dean	Prof. Dr. Alper CEYLAN
Vice Dean	Assoc.Prof. Asiye UĞRAŞ DİKMEN
Vice Dean	Assoc.Prof. Nazmi Mutlu KARAKAŞ
Head Coordinator	Prof. Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof. Dr. Mehmet Ali ERGÜN
Assistant Head Coordinator	Prof. Dr. Akif Muhtar ÖZTÜRK
Year II Coordinator	Assist. Prof. Dr. S. Esra ÖZKOÇER
Assistant Year II Coordinator (ENG)	Assist. Prof. Dr. Zeynep YIĞMAN
Assistant Year II Coordinator	Teach. Assist. Dr. Pelin TÜRKKAN
Assistant Year II Coordinator	Teach. Assist. Dr. Nihan ÖRÜKLÜ
Assistant Year II Coordinator	Teach. Assist. Dr. Ayşe SOYLU

MEMBERS OF COMMITTEE

ANATOMY	HISTOLOGY & EMBRYLOGY	PHYSIOLOGY	MEDICAL BIOCHEMISTRY
Dr. Meltem BAHÇELİOĞLU	Dr. Zeynep YIĞMAN	Dr. Şevin GÜNEY	Dr. Neslihan BUKAN
Dr. Kerem ATALAR	Dr. S. Esra ÖZKOÇER	Dr. A. Meltem SEVGİLİ	Dr. Orhan CANBOLAT
	Dr. Duygu DAYANIR		Dr. Aylin SEPİCİ DİNCEL
			Dr. Mustafa KAVUTÇU
			Dr. Cengiz KARAKAYA
			Dr. Kübranur ÜNAL
BIOPHYSICS			
Dr. Elçin BÜYÜKATALAY			
Dr. Meriç Arda EŞMEKAYA			

ANATOMY LABORATORY	HISTOLOGY & EMBRYLOGY LABORATORY	PHYSIOLOGY LABORATORY	MEDICAL BIOCHEMISTRY LABORATORY
Dr. Meltem BAHÇELİOĞLU	Dr. Çiğdem ELMAS	Dr. Şevin GÜNEY	Dr. Cengiz KARAKAYA
Dr. Kerem ATALAR	Dr. Gülnur TAKE KAPLANOĞLU	Dr. A. Meltem SEVGİLİ	Dr. Kübranur ÜNAL
Dr. Ayşe SOYLU	Dr. C. Merve SEYMEN	Dr. Pelin TÜRKKAN	
	Dr. Zeynep YIĞMAN		
	Dr. Duygu DAYANIR		
	Dr. S. Esra ÖZKOÇER		

Clinical Skills Education Coordinator	Prof. Dr. Nurten İNAN
Elective Course Coordinator	Assoc. Prof. Dr. Ergin DİLEKÖZ
Problem Based Learning Coordinator	Prof. Dr. Deniz KARÇAALTINCABA

DIGESTIVE SYSTEM AND METABOLISM COMMITTEE

Objective:

Should be able to tell the embryonic development, developmental anomalies and malformations of the structures related to the digestive system, the anatomical and histological structure of the digestive system, the physiological functions and establish the connections with the clinic. Should be able to explain biochemical properties and energy metabolism of digestion

LEARNING OBJECTIVES

Knowledge Based

LO-200-3-1 Should be able to explain which germ leaves the digestive system develops from and in which weeks of development it occurs

LO-200-3-2 Should be able to explain anatomical, histological structures and physiological functions of organs in digestive tract

LO-200-3-3 Should be able to explain anatomical, histological structure and physiological functions of liver and biliary tract

LO-200-3-4 Should be able to explain the histological, anatomical structure and functions of the spleen and pancreas

LO-200-3-5 Should be able to explain the hormones secreted from digestive system

LO-200-3-6 Should be able to explain motor movements and secretory functions in digestive tract

LO-200-3-7 Should be able to say the events of digestion and absorption in the small intestine

LO-200-3-8 Should be able to explain vitamin and trace elements and energy mechanisms, regulation of body temperature

LO-200-3-9 Should be able to tell lipid, protein and fat metabolism

LO-200-3-10 Should be able to define thermodynamic systems, enthalpy and entropy, Heat transfer mechanisms: Heat transfer by convection, radiation and their physical formulations

LO-200-3-11 Should be able to have a problem-based approach to diseases

Application Based (practical skills)

LO-200-3-12 Should be able to demonstrate the ability to insert the nasogastric catheter

LO-200-3-13 Should be able to show digestive system structures on experimental animal

LO-200-3-14 Should be able to apply the studies in experimental subjects

Skills Based (intellectual and transferable skills)

LO-200-3-15 Should recognize the importance of cadaver and microscope studies

LO-200-3-16 Should recognize the importance of experimental animal in physiology education

LO-200-3-17 Should recognize that working with a living organ or subject is a responsibility

LO-200-3-18 Should be aware of the responsibility of behaving in a way that will not harm the living object

1 st WEEK	01.01.2024 MONDAY	02.01.2024 TUESDAY	03.01.2024 WEDNESDAY	04.01.2024 THURSDAY	05.01.2024 FRIDAY
08:30-09:20	PUBLIC HOLIDAY	Free Study Time	Mouth Dr. Atalar	Free Study Time	Free Study Time
09:30-10:20	PUBLIC HOLIDAY	Free Study Time	Mouth Dr. Atalar	General principles of gastrointestinal function Dr. Güney	Anterior abdominal wall and abdominal cavity topography Dr. Atalar
10:30-11:20	PUBLIC HOLIDAY	Mouth Dr. Atalar	Pharynx Dr. Atalar	Gastrointestinal hormones Dr. Güney	Inguinal canal Dr. Atalar
11:30-12:20	PUBLIC HOLIDAY	Mouth Dr. Atalar	General principles of gastrointestinal function Dr. Güney	Oesophagus Dr. Bahçelioğlu	Peritoneum Dr. Bahçelioğlu
13:30-14:20	PUBLIC HOLIDAY	Medical English	System: Energy and metabolic rate in biological systems Dr. Büyükcatalay	Oral cavity, oesophagus and associated structures Dr. Yiğman	Peritoneum Dr. Bahçelioğlu
14:30-15:20	PUBLIC HOLIDAY	Medical English	System: Energy and metabolic rate in biological systems Dr. Büyükcatalay	Free Study Time	Digestion in the mouth and deglutation Dr. Güney
15:30-16:20	PUBLIC HOLIDAY	Elective Course	Free Study Time	Free Study Time	Digestion in the mouth and deglutation Dr. Güney
16:30-17:20	PUBLIC HOLIDAY	Elective Course	Free Study Time	Free Study Time	Free Study Time

2nd WEEK	08.01.2024 MONDAY	09.01.2024 TUESDAY	10.01.2024 WEDNESDAY	11.01.2024 THURSDAY	12.01.2024 FRIDAY
08:30-09:20	Free Study Time	Histology Lab 1 Anatomy Lab 1	Large intestine and portal vein Dr. Atalar	Free Study Time	Free Study Time
09:30-10:20	Stomach Dr. Atalar	Histology Lab 1 Anatomy Lab 1	Large intestine and portal vein Dr. Atalar	Gastric digestion, mechanical and chemical processes Dr. Güney	Gastric digestion, mechanical and chemical processes Dr. Güney
10:30-11:20	Small intestine Dr. Atalar	Histology Lab 1 Anatomy Lab 1	Alimentary canal Dr. Yiğman	Digestion of carbohydrates Dr. Bukan	Gastric digestion, mechanical and chemical processes Dr. Güney
11:30-12:20	Oral cavity, oesophagus and associated structures Dr. Yiğman	Histology Lab 1 Anatomy Lab 1	Alimentary canal Dr. Yiğman	Aerobic and anaerobic glycolysis Dr. Bukan	Regulation of glycolysis and energetics Dr. Bukan
13:30-14:20	Oral cavity, oesophagus and associated structures Dr. Yiğman	Medical English	Histology Lab 2 Anatomy Lab 2	Liver and biliary tract Dr. Atalar	Gluconeogenesis Dr. Bukan
14:30-15:20	Free Study Time	Medical English	Histology Lab. 2 Anatomy Lab 2	Liver and biliary tract Dr. Atalar	Reciprocal regulation of glycolysis and gluconeogenesis Dr. Bukan
15:30-16:20	Free Study Time	Elective Course	Histology Lab. 2 Anatomy Lab 2	Analysis of 2nd Committee Exam and Feedback	Free Study Time
16:30-17:20	Free Study Time	Elective Course	Histology Lab. 2 Anatomy Lab 2	Free Study Time	Free Study Time

3rd WEEK	15.01.2024 MONDAY YEAR III THEORICALEXAM	16.01.2024 TUESDAY	17.01.2024 WEDNESDAY	18.01.2024 THURSDAY	19.01.2024 FRIDAY
08:30-09:20	Free Study Time	Histology Lab 3 Anatomy Lab 3	Free Study Time	Free Study Time	Free Study Time
09:30-10:20	Spleen and pancreas Dr. Atalar	Histology Lab 3 Anatomy Lab 3	Glycogenesis and glycogenolysis Dr. Bukan	The citric acid cycle and regulation Dr. Karakaya	Free Study Time
10:30-11:20	Utilization of other carbohydrates to glycolithic pathway Dr. Bukan	Histology Lab 3 Anatomy Lab3	The citric acid cycle and regulation Dr. Karakaya	Digestion and absorption of dietary fat Dr. Bukan	Transport and storage of fat Dr. Bukan
11:30-12:20	Glycogenesis and glycogenolysis Dr. Bukan	Histology Lab 3 Anatomy Lab 3	The citric acid cycle and regulation Dr. Karakaya	Digestion and absorption of dietary fat Dr. Bukan	Transport and storage of fat Dr. Bukan
13:30-14:20	The pentose phosphate pathway Dr. Dinçel	Medical English	Biochemistry Lab 1	Biochemistry Lab 2	Biosynthesis of fatty acis Dr. Karakaya
14:30-15:20	The pentose phosphate pathway Dr. Dinçel	Medical English	Biochemistry Lab 1	Biochemistry Lab 2	Oxidation of fatty acids Dr. Karakaya
15:30-16:20	Free Study Time	Elective Course	Biochemistry Lab 1	Biochemistry Lab 2	Free Study Time
16:30-17:20	Free Study Time	Elective Course	Biochemistry Lab 1	Biochemistry Lab 2	Free Study Time

20.01.2024 - 04.02.2024
SEMESTER HOLIDAY

4th WEEK	05.02.2024 MONDAY	06.02.2024 TUESDAY	07.02.2024 WENESDAY	08.02.2024 THURSDAY	09.02.2024 FRIDAY
08:30-09:20	Free Study Time	Free Study Time	PBL	Liver Dr. Özkoçer	Pancreas and gallbladder Dr. Özkoçer
09:30-10:20	Free Study Time	Free Study Time	PBL	Liver Dr. Özkoçer	Pancreas and gallbladder Dr. Özkoçer
10:30-11:20	Thermodynamic systems, enthalpy and entropy: Open, close and isolated systems Dr. Büyükkatalay	Digestion of proteins, enzymes in stomach and intestines, effects of hormones Dr. Karakaya	Urea cycle, its integration with citric acid cycle Dr. Karakaya	The respiratory chain, oxidative phosphorylation and ATP synthesis Dr. Canbolat	Role of biles in digestion Dr. Güney
11:30-12:20	Thermodynamic systems, enthalpy and entropy: Open, close and isolated systems Dr. Büyükkatalay	Transamination, oxidative deamination Dr. Karakaya	Regulation of urea cycle and metabolic disorders Dr. Karakaya	The respiratory chain, oxidative phosphorylation and ATP synthesis Dr. Canbolat	Exocrine functions of pancreas Dr. Güney
13:30-14:20	Synthesis transport and excretion of cholesterol Dr. Karakaya	Free Study Time	Biologic oxidation Dr. Canbolat	Functions of liver Dr. Güney	Utilization of carbon skeletons of aminoacids in citric acid cycle Dr. Ünal
14:30-15:20	Synthesis, utilization and regulation of keton bodies Dr. Kavutçu	Free Study Time	Biologic oxidation Dr. Canbolat	Functions of liver Dr. Güney	Glycine synthesis, catabolis utilization of synthetic reaction Dr. Ünal
15:30-16:20	Free Study Time	Free Study Time	Free Study Time	Free Study Time	Free Study Time
16:30-17:20	Free Study Time	Free Study Time	Free Study Time	Free Study Time	Free Study Time

5 th WEEK	12.02.2024 MONDAY	13.02.2024 TUESDAY YEAR I THEORICALEXAM	14.02.2024 WENESDAY	15.02.2024 THURSDAY	16.02.2024 FRIDAY
08:30-09:20	Free Study Time	Free Study Time	Free Study Time	PBL	Free Study Time
09:30-10:20	Free Study Time	Free Study Time	Posterior abdominal Wall, abdominal aorta and inferior vena cava Dr. Bahçelioğlu	PBL	Free Study Time
10:30-11:20	Clinical and radiolgraphic anatomy Dr. Bahçelioğlu	Exocrine functions of pancreas Dr. Güney	Posterior abdominal Wall, abdominal aorta and inferior vena cava Dr. Bahçelioğlu	Metabolism of branched chain amino acids, aspartate, asparagine, glutamate, glutamine, proline, hydroxyproline, arginine Dr. Ünal	Metabolism of nucleic acids Dr. Canbolat
11:30-12:20	Clinical and radiolgraphic anatomy Dr. Bahçelioğlu	Mechanical and chemical events in small intestine Dr. Güney	Posterior abdominal Wall, abdominal aorta and inferior vena cava Dr. Bahçelioğlu	Metabolism of branched chain amino acids, aspartate, asparagine, glutamate, glutamine, proline, hydroxyproline, arginine Dr. Ünal	Metabolism of nucleic acids Dr. Canbolat
13:30-14:20	Metabolism of serine, alanine, cysteine, methionine and threonine Dr. Ünal	Medical English	Biochemistry Lab 3 Histology Lab 4	Anatomy Lab 4	Histology Lab 5 Biochemistry Lab 4
14:30-15:20	Metabolism of serine, alanine, cysteine, methionine and threonine Dr. Ünal	Medical English	Biochemistry Lab 3 Histology Lab 4	Anatomy Lab 4	Histology Lab 5 Biochemistry Lab 4
15:30-16:20	Free Study Time	Elective Course	Biochemistry Lab 3 Histology Lab 4	Anatomy Lab 4	Histology Lab 5 Biochemistry Lab 4
16:30-17:20	Free Study Time	Elective Course	Biochemistry Lab 3 Histology Lab 4	Anatomy Lab 4	Histology Lab 5 Biochemistry Lab 4

6th WEEK	19.02.2024 MONDAY	20.02.2024 TUESDAY	21.02.2024 WENESDAY	22.02.2024 THURSDAY	23.02.2024 FRIDAY
08:30-09:20	Free Study Time	Free Study Time	PBL	Free Study Time	Anatomy Lab 5 Biochemistry Lab 5
09:30-10:20	Free Study Time	Metabolism of nucleic acids Dr. Canbolat	PBL	Free Study Time	Anatomy Lab 5 Biochemistry Lab 5
10:30-11:20	Heat regulation and transfer mechanisms: heat transfer by transmission, radiation Dr. Büyükcatalay	Energy balance and transformation Dr. Sevgili	Regulation of body temperature Dr. Sevgili	Absorption and secretion of small intestine Dr. Güney	Anatomy Lab 5 Biochemistry Lab 5
11:30-12:20	Heat regulation and transfer mechanisms: heat transfer by transmission, radiation Dr. Büyükcatalay	Regulation of feeding, obesity and starvation Dr. Sevgili	Absorption and secretion of small intestine Dr. Güney	Functions of colon Dr. Güney	Anatomy Lab 5 Biochemistry Lab 5
13:30-14:20	Metabolism of histidine, lysine, hydroxylysine and aromatic amino acid Dr. Ünal	Medical English	Clinical and radiographic anatomy Dr. Bahçeliođlu	Exercise Physiology Dr. Sevgili	Biosynthesis of proteins and genetic code Dr. Canbolat
14:30-15:20	Metabolism of histidine, lysine, hydroxylysine and aromatic amino acid Dr. Ünal	Medical English	Clinical and radiographic anatomy Dr. Bahçeliođlu	Exercise Physiology Dr. Sevgili	Biosynthesis of proteins and genetic code Dr. Canbolat
15:30-16:20	Free Study Time	Elective Course	Free Study Time	Free Study Time	Free Study Time
16:30-17:20	Free Study Time	Elective Course	Free Study Time	Free Study Time	Free Study Time

7th WEEK	26.02.2024 MONDAY	27.02.2024 TUESDAY	28.02.2024 WENESDAY	29.02.2024 THURSDAY	01.03.2024 FRIDAY
08:30-09:20	Physiology Lab1 Biochemistry Lab 6	CSE	Physiology Lab1 Histology Lab 6	Free Study Time	Free Study Time
09:30-10:20	Physiology Lab1 Biochemistry Lab 6	CSE	Physiology Lab1 Histology Lab 6	Free Study Time	Free Study Time
10:30-11:20	Physiology Lab1 Biochemistry Lab 6	CSE	Physiology Lab1 Histology Lab 6	Digestive system embryology Dr. Dayanır	Free Study Time
11:30-12:20	Physiology Lab1 Biochemistry Lab 6	CSE	Physiology Lab1 Histology Lab 6	Digestive system embryology Dr. Dayanır	Free Study Time
13:30-14:20	Clinical and radiographic anatomy Dr. Bahçelioğlu	Medical English	Digestive system embryology Dr. Dayanır	Naturel potentials and electrical activities of tissues Dr.Eşmekaya	Free Study Time
14:30-15:20	Clinical and radiographic anatomy Dr. Bahçelioğlu	Medical English	Biosynthesis of proteins and genetic code Dr. Canbolat	Naturel potentials and electrical activities of tissues Dr.Eşmekaya	Free Study Time
15:30-16:20	Free Study Time	Elective Course	Posttranslational modifications Dr. Canbolat	Free Study Time	Free Study Time
16:30-17:20	Free Study Time	Elective Course	Free Study Time	Free Study Time	Free Study Time

8th WEEK	04.03.2024 MONDAY	05.03.2024 TUESDAY	06.03.2024 WENESDAY	07.03.2024 THURSDAY	08.03.2024 FRIDAY
08:30-09:20	YEAR II APPLIED EXAM	YEAR II APPLIED EXAM	YEAR II THEORETICAL EXAM		
09:30-10:20	YEAR II APPLIED EXAM	YEAR II APPLIED EXAM	YEAR II THEORETICAL EXAM		
10:30-11:20	YEAR II APPLIED EXAM	YEAR II APPLIED EXAM	YEAR II THEORETICAL EXAM		
11:30-12:20	YEAR II APPLIED EXAM	YEAR II APPLIED EXAM	YEAR II THEORETICAL EXAM		
13:30-14:20	YEAR II APPLIED EXAM	Medical English	Free Study Time		
14:30-15:20	YEAR II APPLIED EXAM	Medical English	Free Study Time		
15:30-16:20	YEAR II APPLIED EXAM	Elective Course	Free Study Time		
16:30-17:20	YEAR II APPLIED EXAM	Elective Course	Free Study Time		