

**GAZİ UNIVERSITY FACULTY OF MEDICINE**  
**2025-2026 EDUCATIONAL YEAR 2**

**DIGESTIVE SYSTEM AND METABOLISM**  
**COMMITTEE**

**(05.01.2026 – 06.03.2026)**

<b>COURSES</b>	<b>THEORETICAL</b>	<b>LABORATORY</b>	<b>PRACTICAL</b>	<b>TOTAL</b>
Anatomy	26	2x5		36
Biophysics	8			8
Physiology	22	2x1		24
Histology and Embryology	12	2x6		24
Medical Biochemistry	44	2x6		56
<b>TOTAL</b>	<b>112</b>	<b>36</b>		<b>148</b>
Elective Courses	8			8
Medical English	8			8
<b>INTRODUCTION TO MEDICINE</b>				
Problem Based Learning (PBL)			12	12
Clinical Skills Education (CSE)			2x1	2
<b>TOTAL</b>	<b>128</b>	<b>36</b>	<b>14</b>	<b>178</b>
<b>TOTAL FREE STUDY TIME</b>	<b>78 Hours</b>			

**35 Work Days**

03.03.2026	TUESDAY	YEAR II APPLIED EXAM
04.03.2026	WEDNESDAY	YEAR II APPLIED EXAM
05.03.2026	THURSDAY	YEAR II APPLIED EXAM
06.03.2026	FRIDAY	YEAR II THEORETICAL EXAM

Dean	Prof.Dr. Alper CEYLAN
Vice Dean	Assoc. Prof. Dr. Nazmi Mutlu KARAKAŞ
Vice Dean	Prof. Dr. Asiye UĞRAŞ DİKMEN
Head Coordinator	Prof.Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof.Dr. Akif Muhtar ÖZTÜRK
Assistant Head Coordinator (ENG)	Prof.Dr. Mehmet Ali ERGÜN
<b>Year 2 Coordinator</b>	<b>Prof. Dr. C. Merve SEYMEN</b>
<b>Assistant Year 2 Coordinator</b>	<b>Assist. Prof. Dr. Arın TOMRUK</b>
<b>Assistant Year 2 Coordinator</b>	<b>Teach. Assist. Dr. Nihan ÖRÜKLÜ</b>
<b>Assistant Year 2 Coordinator</b>	<b>Teach. Assist. Dr. Ayşe SOYLU</b>
<b>Assistant Year 2 Coordinator</b>	<b>Teach. Assist. Dr. H Betül MOĞULKOÇ</b>
<b>Assistant Year 2 Coordinator</b>	<b>Teach. Assist. Dr. Onur ARAS</b>

## MEMBERS OF COMMITTEE

ANATOMY	HISTOLOGY & EMBRYOLOGY	PHYSIOLOGY	MEDICAL BIOCHEMISTRY
Dr. Meltem BAHÇELİOĞLU	Dr. Zeynep YIĞMAN	Dr. Şevin GÜNEY	Dr. N.Samet YILMAZ
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 Özgür BÜYÜKATALAY			
Dr. Arda Meriç EŞMEKAYA			

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

<b>Clinical Skills Education Coordinator</b>	Prof. Dr. Nurten İNAN
<b>Elective Course Coordinator</b>	Assoc. Prof. Dr. Ergin DİLEKÖZ

## **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 <sup>st</sup> WEEK	05.01.2026 Monday	06.01.2026 Tuesday	07.01.2026 Wednesday	08.01.2026 Thursday	09.01.2026 Friday
08:30-09:20	Mouth Dr. ATALAR	Mouth Dr. ATALAR	Free Study Time (English Final Exam)	General Principles of Gastrointestinal Function Dr. GÜNEY	Free Study Time
09:30-10:20	Mouth Dr. ATALAR	Mouth Dr. ATALAR	Free Study Time (English Final Exam)	General Principles of Gastrointestinal Function Dr. GÜNEY	The Respiratory Chain, Oxidative Phosphorylation and ATP Synthesis Dr. CANBOLAT
10:30-11:20	Digestive System Embryology Dr. DAYANIR	Free Study Time (Turkish Language Final Exam)	Free Study Time (English Final Exam)	Pharynx Dr. BAHÇELIOĞLU	The Respiratory Chain, Oxidative Phosphorylation and ATP Synthesis Dr. CANBOLAT
11:30-12:20	Digestive System Embryology Dr. DAYANIR	Free Study Time (Turkish Language Final Exam)	Free Study Time (English Final Exam)	Oesophagus Dr. BAHÇELIOĞLU	Digestive System Embryology Dr. DAYANIR
13:30-14:20	Digestion of Carbohydrates Dr. YILMAZ	Regulation of Glycolysis and Energetics Dr. YILMAZ	Free Study Time (English Final Exam)	Free Study Time (Ataturk's Principles and Revolution History Final Exam)	Glycogenesis and Glycogenolysis Dr. YILMAZ
14:30-15:20	Aerobic and Anaerobic Glycolysis Dr. YILMAZ	Gluconeogenesis Dr. YILMAZ	Free Study Time (English Final Exam)	Free Study Time (Ataturk's Principles and Revolution History Final Exam)	Glycogenesis and Glycogenolysis Dr. YILMAZ
15:30-16:20	Free Study Time (Elective Course Exam)	Biologic Oxidation Dr. CANBOLAT	Free Study Time (English Final Exam)	Reciprocal Regulation of Glycolysis and Gluconeogenesis Dr. YILMAZ	Oral Cavity, Oesophagus and Associated Structures Dr. YİĞMAN
16:30-17:20	Free Study Time (Elective Course Exam)	Biologic Oxidation Dr. CANBOLAT	Free Study Time (English Final Exam)	Utilization of Other Carbohydrates to Glycolytic Pathway Dr. YILMAZ	Free Study Time

2 <sup>nd</sup> WEEK	12.01.2026 Monday	13.01.2026 Tuesday	14.01.2026 Wednesday	15.01.2026 Thursday	16.01.2026 Friday
08:30-09:20	Anterior Abdominal Wall and Abdominal Cavity Topography <b>Dr. ATALAR</b>	Anatomy Lab 1 (Group C-D) Histology Lab 1 (Group A-B)	<b>Free Study Time</b>	System: Energy and Metabolic Rate in Biological Systems <b>Dr. BÜYÜKATALAY</b>	The Pentose Phosphate Pathway <b>Dr. DİNÇEL</b>
09:30-10:20	Inguinal Canal <b>Dr. ATALAR</b>	Anatomy Lab 1 (Group C-D) Histology Lab 1 (Group A-B)	Stomach <b>Dr. ATALAR</b>	System: Energy and Metabolic Rate in Biological Systems <b>Dr. BÜYÜKATALAY</b>	The Pentose Phosphate Pathway <b>Dr. DİNÇEL</b>
10:30-11:20	Metabolism of Nucleic Acids <b>Dr. CANBOLAT</b>	Anatomy Lab 1 (Group A-B) Histology Lab 1 (Group C-D)	Small Intestine <b>Dr. ATALAR</b>	Biosynthesis of Proteins and Genetic Code <b>Dr. CANBOLAT</b>	Biosynthesis of Proteins and Genetic Code <b>Dr.CANBOLAT</b>
11:30-12:20	Metabolism of Nucleic Acids <b>Dr. CANBOLAT</b>	Anatomy Lab 1 (Group A-B) Histology Lab 1 (Group C-D)	Metabolism of Nucleic Acids <b>Dr. CANBOLAT</b>	Posttranslational Modifications <b>Dr. CANBOLAT</b>	Biosynthesis of Proteins and Genetic Code <b>Dr.CANBOLAT</b>
13:30-14:20	Oral Cavity, Oesophagus and Associated Structures <b>Dr. YİĞMAN</b>	<b>Free Study Time</b>	Anatomy Lab 2 (Group C-D) Biochemistry Lab 1 (Group A-B)	<b>CSE</b>	The Citric Acid Cycle and Regulation <b>Dr. KARAKAYA</b>
14:30-15:20	Oral Cavity, Oesophagus and Associated Structures <b>Dr. YİĞMAN</b>	<b>Free Study Time</b>	Anatomy Lab 2 (Group C-D) Biochemistry Lab 1 (Group A-B)	<b>CSE</b>	The Citric Acid Cycle and Regulation <b>Dr. KARAKAYA</b>
15:30-16:20	<b>Free Study Time</b>	<b>Free Study Time</b>	Anatomy Lab 2 (Group A-B) Biochemistry Lab 1 (Group C-D)	<b>CSE</b>	<b>Free Study Time</b>
16:30-17:20	<b>Free Study Time</b>	<b>Free Study Time</b>	Anatomy Lab 2 (Group A-B) Biochemistry Lab 1 (Group C-D)	<b>CSE</b>	<b>Free Study Time</b>

**17.01.2026 - 01.02.2026**  
**SEMESTER HOLIDAY**

3 <sup>rd</sup> WEEK	02.02.2026 Monday	03.02.2026 Tuesday	04.02.2026 Wednesday	05.02.2026 Thursday	06.02.2026 Friday
08:30-09:20	Free Study Time	Free Study Time	Biochemistry Lab 2 (Group A-B) Histology Lab 2 (Group C-D)	Liver <b>Dr. ÖZKOÇER</b>	Gastric Digestion, Mechanical and Chemical Processes <b>Dr. GÜNEY</b>
09:30-10:20	Large Intestine and Portal Vein <b>Dr. ATALAR</b>	Liver and Biliary Tract <b>Dr. ATALAR</b>	Biochemistry Lab 2 (Group A-B) Histology Lab 2 (Group C-D)	Liver <b>Dr. ÖZKOÇER</b>	Gastric Digestion, Mechanical and Chemical Processes <b>Dr. GÜNEY</b>
10:30-11:20	Large Intestine and Portal Vein <b>Dr. ATALAR</b>	Liver and Biliary Tract <b>Dr. ATALAR</b>	Biochemistry Lab 2 (Group C-D) Histology Lab 2 (Group A-B)	Digestion in The Mouth and Deglutation <b>Dr. GÜNEY</b>	Thermodynamic Systems, Enthalpy and Entropy: Open, Close and Isolated Systems <b>Dr. BÜYÜKATALAY</b>
11:30-12:20	The Citric Acid Cycle and Regulation <b>Dr. KARAKAYA</b>	Gastrointestinal Hormones <b>Dr. GÜNEY</b>	Biochemistry Lab 2 (Group C-D) Histology Lab 2 (Group A-B)	Digestion in The Mouth and Deglutation <b>Dr. GÜNEY</b>	Thermodynamic Systems, Enthalpy and Entropy: Open, Close and Isolated Systems <b>Dr. BÜYÜKATALAY</b>
13:30-14:20	Alimentary Canal <b>Dr. YİĞMAN</b>	Clinical and Radiographic Anatomy <b>Dr. BAHÇELIOĞLU</b>	<b>PBL</b>	Biochemistry Lab 3 (Group A-B) Histology Lab 3 (Group C-D)	Spleen and Pancreas <b>Dr. BAHÇELIOĞLU</b>
14:30-15:20	Alimentary Canal <b>Dr. YİĞMAN</b>	Clinical and Radiographic Anatomy <b>Dr. BAHÇELIOĞLU</b>	<b>PBL</b>	Biochemistry Lab 3 (Group A-B) Histology Lab 3 (Group C-D)	Pancreas and Gallbladder <b>Dr. ÖZKOÇER</b>
15:30-16:20	Free Study Time	Free Study Time	Digestion and Absorption of Dietary Fat <b>Dr. KARAKAYA</b>	Biochemistry Lab 3 (Group C-D) Histology Lab 3 (Group A-B)	Pancreas and Gallbladder <b>Dr. ÖZKOÇER</b>
16:30-17:20	Free Study Time	Free Study Time	Digestion and Absorption of Dietary Fat <b>Dr. KARAKAYA</b>	Biochemistry Lab 3 (Group C-D) Histology Lab 3 (Group A-B)	Free Study Time

<b>4<sup>th</sup> WEEK</b>	<b>09.02.2026 Monday</b>	<b>10.02.2026 Tuesday</b>	<b>11.02.2026 Wednesday</b>	<b>12.02.2026 Thursday</b>	<b>13.02.2026 Friday</b>
<b>08:30-09:20</b>	Peritoneum <b>Dr. BAHÇELIOĞLU</b>	Anatomy Lab 3 (Group A-B)	Biosynthesis of Fatty Acids <b>Dr. KARAKAYA</b>	Histology Lab 4 (Group A-B) Biochemistry Lab 4 (Group C-D)	Exocrine Functions of Pancreas <b>Dr. GÜNEY</b>
<b>09:30-10:20</b>	Peritoneum <b>Dr. BAHÇELIOĞLU</b>	Anatomy Lab 3 (Group A-B)	Oxidation of Fatty Acids <b>Dr. KARAKAYA</b>	Histology Lab 4 (Group A-B) Biochemistry Lab 4 (Group C-D)	Exocrine Functions of Pancreas <b>Dr. GÜNEY</b>
<b>10:30-11:20</b>	Gastric Digestion, Mechanical and Chemical Processes <b>Dr. GÜNEY</b>	Anatomy Lab 3 (Group C-D)	Functions of Liver <b>Dr. GÜNEY</b>	Histology Lab 4 (Group C-D) Biochemistry Lab 4 (Group A-B)	Synthesis Transport and Excretion of Cholesterol <b>Dr. KARAKAYA</b>
<b>11:30-12:20</b>	Functions of Liver <b>Dr. GÜNEY</b>	Anatomy Lab 3 (Group C-D)	Role of Biles in Digestion <b>Dr. GÜNEY</b>	Histology Lab 4 (Group C-D) Biochemistry Lab 4 (Group A-B)	Synthesis, Utilization and Regulation of Keton Bodies <b>Dr. KAVUTÇU</b>
<b>13:30-14:20</b>	Transport and Storage of Fat <b>Dr. KARAKAYA</b>	<b>Medical English</b>	<b>PBL</b>	Histology Lab 5 (Group A-B) Biochemistry Lab 5 (Group C-D)	Posterior Abdominal Wall, Abdominal Aorta and Inferior Vena Cava <b>Dr. ATALAR</b>
<b>14:30-15:20</b>	Transport and Storage of Fat <b>Dr. KARAKAYA</b>	<b>Medical English</b>	<b>PBL</b>	Histology Lab 5 (Group A-B) Biochemistry Lab 5 (Group C-D)	Posterior Abdominal Wall, Abdominal Aorta and Inferior Vena Cava <b>Dr. ATALAR</b>
<b>15:30-16:20</b>	<b>Free Study Time</b>	<b>Elective Courses</b>	<b>Free Study Time</b>	Histology Lab 5 (Group C-D) Biochemistry Lab 5 (Group A-B)	Posterior Abdominal Wall, Abdominal Aorta and Inferior Vena Cava <b>Dr. ATALAR</b>
<b>16:30-17:20</b>	<b>Free Study Time</b>	<b>Elective Courses</b>	<b>Free Study Time</b>	Histology Lab 5 (Group C-D) Biochemistry Lab 5 (Group A-B)	<b>Free Study Time</b>



5 <sup>th</sup> WEEK	16.02.2026 Monday	17.02.2026 Tuesday	18.02.2026 Wednesday	19.02.2026 Thursday	20.02.2026 Friday
08:30-09:20	Free Study Time	Anatomy Lab 4 (Group A-B)	Urea Cycle, Its Integration with Citric Acid Cycle  Dr. KARAKAYA	Absorption and Secretion of Small Intestine  Dr. GÜNEY	Heat Regulation and Transfer Mechanisms  Dr. BÜYÜKATALAY
09:30-10:20	Free Study Time	Anatomy Lab 4 (Group A-B)	Regulation of Urea Cycle and Metabolic Disorders  Dr. KARAKAYA	Functions of Colon  Dr. GÜNEY	Heat Regulation and Transfer Mechanisms  Dr. BÜYÜKATALAY
10:30-11:20	Digestion of Proteins, Enzymes in Stomach and Intestines, Effects of Hormones  Dr. KARAKAYA	Anatomy Lab 4 (Group C-D)	Utilization of Carbon Skeletons of Aminoacids in Citric Acid Cycle  Dr. ÜNAL	Metabolism of Serine, Alanine, Cysteine, Methionine and Threonine  Dr. ÜNAL	Exercise Physiology  Dr. SEVGİLİ
11:30-12:20	Transamination, Oxidative Deamination  Dr. KARAKAYA	Anatomy Lab 4 (Group C-D)	Glycine Synthesis, Catabolism Utilization of Synthetic Reaction  Dr. ÜNAL	Metabolism of Serine, Alanine, Cysteine, Methionine and Threonine  Dr. ÜNAL	Exercise Physiology  Dr. SEVGİLİ
13:30-14:20	Energy Balance and Transformation  Dr. SEVGİLİ	Medical English	PBL	Clinical and Radiographic Anatomy  Dr. BAHÇELİOĞLU	Metabolism of Branched Chain Amino Acids, Aspartate, Asparagine, Glutamate, Glutamine, Proline, Hydroxyproline, Arginine  Dr. ÜNAL
14:30-15:20	Regulation of Feeding, Obesity and Starvation  Dr. SEVGİLİ	Medical English	PBL	Clinical and Radiographic Anatomy  Dr. BAHÇELİOĞLU	Metabolism of Branched Chain Amino Acids, Aspartate, Asparagine, Glutamate, Glutamine, Proline, Hydroxyproline, Arginine  Dr. ÜNAL
15:30-16:20	Free Study Time	Elective Courses	Free Study Time	Regulation of Body Temperature  Dr. SEVGİLİ	Free Study Time
16:30-17:20	Free Study Time	Elective Courses	Free Study Time	Free Study Time	Free Study Time

6 <sup>th</sup> WEEK	23.02.2026 Monday	24.02.2026 Tuesday	25.02.2026 Wednesday	26.02.2026 Thursday	27.02.2026 Friday
08:30-09:20	Free Study Time	Natural Potentials and Electrical Activities of Tissues Dr. EŞMEKAYA	Physiology Lab1 (Group A)	Physiology Lab1 (Group C)	Free Study Time
09:30-10:20	Free Study Time	Natural Potentials and Electrical Activities of Tissues Dr. EŞMEKAYA	Physiology Lab1 (Group A)	Physiology Lab1 (Group C)	Free Study Time
10:30-11:20	Metabolism of Histidine, Lysine, Hydroxylysine and Aromatic Amino Acid Dr. ÜNAL	Mechanical and Chemical Events in Small Intestine Dr. GÜNEY	Physiology Lab1 (Group B)	Physiology Lab1 (Group D)	Free Study Time
11:30-12:20	Metabolism of Histidine, Lysine, Hydroxylysine and Aromatic Amino Acid Dr. ÜNAL	Absorption and Secretion of Small Intestine Dr. GÜNEY	Physiology Lab1 (Group B)	Physiology Lab1 (Group D)	Free Study Time
13:30-14:20	Clinical and Radiographic Anatomy Dr. BAHÇELIOĞLU	Medical English	Anatomy Lab 5 (Group A-B)	Histology Lab 6 (Group A-B) Biochemistry Lab 6 (Group C-D)	Free Study Time
14:30-15:20	Clinical and Radiographic Anatomy Dr. BAHÇELIOĞLU	Medical English	Anatomy Lab 5 (Group A-B)	Histology Lab 6 (Group A-B) Biochemistry Lab 6 (Group C-D)	Free Study Time
15:30-16:20	Free Study Time	Elective Courses	Anatomy Lab 5 (Group C-D)	Histology Lab 6 (Group C-D) Biochemistry Lab 6 (Group A-B)	Free Study Time
16:30-17:20	Free Study Time	Elective Courses	Anatomy Lab 5 (Group C-D)	Histology Lab 6 (Group C-D) Biochemistry Lab 6 (Group A-B)	Free Study Time

<b>7<sup>th</sup> WEEK</b>	<b>02.03.2026</b> <b>Monday</b>	<b>03.03.2026</b> <b>Tuesday</b>	<b>04.03.2026</b> <b>Wednesday</b>	<b>05.03.2026</b> <b>Thursday</b>	<b>06.03.2026</b> <b>Friday</b>
<b>08:30-09:20</b>	Free Study Time	APPLIED EXAM	APPLIED EXAM	APPLIED EXAM	THEORETICAL EXAM
<b>09:30-10:20</b>	Free Study Time	APPLIED EXAM	APPLIED EXAM	APPLIED EXAM	THEORETICAL EXAM
<b>10:30-11:20</b>	Free Study Time	APPLIED EXAM	APPLIED EXAM	APPLIED EXAM	THEORETICAL EXAM
<b>11:30-12:20</b>	Free Study Time	APPLIED EXAM	APPLIED EXAM	APPLIED EXAM	THEORETICAL EXAM
<b>13:30-14:20</b>	Free Study Time	Medical English	APPLIED EXAM	APPLIED EXAM	Free Study Time
<b>14:30-15:20</b>	Free Study Time	Medical English	APPLIED EXAM	APPLIED EXAM	Free Study Time
<b>15:30-16:20</b>	Free Study Time	Elective Courses	APPLIED EXAM	APPLIED EXAM	Free Study Time
<b>16:30-17:20</b>	Free Study Time	Elective Courses	APPLIED EXAM	APPLIED EXAM	Free Study Time

