GAZI UNIVERSITY FACULTY OF MEDICINE

2020-2021 EDUCATIONAL YEAR

DISTANCE (ON-LINE) EDUCATION THEORETICAL COURSES FOR YEAR II

DIGESTIVE SYSTEM AND METABOLISM COMMITTEE
(November 27 -December 18, 2020)

COURSES	THEORETICAL
Anatomy	26
Biophysics	8
Physiology	22
Histology and Embryology	12
Medical Biochemistry	44
TOTAL	**112**

18.12.2020	Friday	Mid-Term Exam

Dean	Prof.Dr. Mustafa Necmi İLHAN
Vice Dean	Assoc. Prof. Dr. İlyas OKUR
Vice Dean	Assoc. Prof. Dr. Özlem GÜZEL TUNÇCAN
Head Coordinator	Prof. Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof.Dr. Mehmet Ali ERGÜN
Assistant Head Coordinator	Prof.Dr. Akif Muhtar ÖZTÜRK
Assistant Head Coordinator	Assoc. Prof. Dr.Özlem COŞKUN
Year II Coordinator	**Assoc. Prof. Dr.Gökçe S. ÖZTÜRK FİNCAN**
Assistant Year II Coordinator	**Assist. Prof. Dr. Zeynep YIĞMAN (ENG)**
Assistant Year II Coordinator	**Teach. Assist. Dr. Süheyla Esra ÖZKOÇER**
Assistant Year II Coordinator	**Teach. Assist. Dr. Pelin TÜRKKAN**
Assistant Year II Coordinator	**Teach. Assist. Dr. Ece ALİM**

MEMBERS OF COMMITTEE

ANATOMY	HISTOLOGY AND EMBRYLOGY	PHYSIOLOGY	BIOPHYSICS	MEDICAL BİOCHEMISTRY
Dr.Meltem BAHÇELİOĞLU	Dr. Zeynep YIĞMAN	Dr. Şevin GÜNEY	Dr. Bahriye Sırav ARAL	Dr. Neslihan BUKAN
Dr. Ece ALİM	Dr. Süheyla Esra ÖZKOÇER	Dr. Meltem SEVGİLİ		Dr. Mustafa KAVUTÇU
	Dr. Duygu DAYANIR			Dr. Orhan CANPOLAT
				Dr. Aylin SEPİCİ DİNÇEL
				Dr. Cengiz KARAKAYA
				Dr. Kübranur ÜNAL

Elective Course Coordinator	Assoc. Prof. Dr. Ergin DİLEKÖZ

SALI GÜNLERİ

SAAT 16:00-17:00 ARALIĞINDA İNGİLİZCE DERSLERİ

SAAT 17:00-18:00 ARALIĞINDA SEÇMELİ DERSLER OLACAKTIR.

DIGESTION AND METABOLISM COMMITTEE

Aim

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 OUTCOMES

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 tranferable 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

1st WEEK					**27.11.2020** **FRIDAY**
10:00-10:30 **10:30-11:00**					Mouth Dr.Alim Mouth Dr.Alim
11:00-11:30 **11:30-12:00**					Mouth Dr.Alim Mouth Dr.Alim
14:00-14:30 **14:30-15:00**					Digestive system embryology Dr. Dayanır Digestive system embryology Dr. Dayanır
15:00-15:30 **15:30-16:00**					Digestion of carbohydrates Dr.Bukan Aerobic and anaerobic glycolysis Dr.Bukan

2nd WEEK	30.11.2020 MONDAY	01.12.2020 TUESDAY	02.12.2020 WEDNESDAY	03.12.2020 THURSDAY	04.12.2020 FRIDAY
10:00-10:30 10:30-11:00	Digestive system embryology Dr. Dayanır Oral cavity, oesophagus and associated structures Dr. Yığman	Reciprocal regulation of glycolysis and gluconeogenis Dr.Bukan Utilization of other carbohydrates to glycolithic pathway Dr.Bukan	Stomach Dr. Alim Small intestine Dr. Alim	Energy balance and transformation Dr. Sevgili Regulation of body temperature Dr. Sevgili	Biologic oxidation Dr.Canpolat Biologic oxidation Dr.Canpolat
11:00-11:30 11:30-12:00	Oral cavity, oesophagus and associated structures Dr. Yığman Oral cavity, oesophagus and associated structures Dr. Yığman	Glycogenesis and glycogenolysis Dr.Bukan Glycogenesis and glycogenolysis Dr.Bukan	Alimantary canal Dr.Yığman Alimantary canal Dr.Yığman	Clinical and radiographic Anatomy Dr. Bahçelioğlu Clinical and radiographic Anatomy Dr. Bahçelioğlu	Digestion in the mouth and deglutation Dr. Güney Gastric ingestion, mechanical and chemical processes Dr. Güney
14:00-14:30 14:30-15:00	Pharynx Dr.Bahçelioğlu Oesophagus Dr.Bahçelioğlu	General principles of gastrointestinal function Dr. Güney General principles of gastrointestinal function Dr. Güney	Gastrointestinal peptides Dr.Güney Digestion in the mouth and deglutation Dr. Güney	The citric acid cycle and regulation Dr.Karakaya The citric acid cycle and regulation Dr.Karakaya	The respiratory chain, Oxidative Phosphorylation and ATP synthesis, Dr.Canpolat The respiratory chain, Oxidative Phosphorylation and ATP synthesis, Dr.Canpolat
15:00-15:30 15:30-16:00	Regulation of glycolysis and energetics Dr.Bukan Gluconeogenesis Dr.Bukan	Anterior abdominal wall and abdominal cavity topography Dr.Bahçelioğlu Inguinal canal Dr. Bahçelioğlu	The penthose phosphate pathway Dr.Dinçel The penthose phosphate pathway Dr.Dinçel	The citric acid cycle and regulation Dr.Karakaya Biosynthesis of fatty Acids Dr. Karakaya	Large intestine and portal vein Dr.Alim Large intestine and portal vein Dr.Alim

3rd 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	Liver and biliary tract Dr.Alim Liver and biliary tract Dr.Alim	Transport and storage of fat Dr.Bukan Transport and storage of fat Dr.Bukan	Functions of liver Dr.Güney Functions of liver Dr.Güney	Thermodynamic systems, enthalpy and entropy; open, close and isolated systems Dr Sırav Aral Thermodynamic systems, enthalpy and entropy; open, close and isolated systems Dr Sırav Aral	Clinical and radiographic Anatomy Dr. Bahçelioğlu Clinical and radiographic Anatomy Dr. Bahçelioğlu
11:00-11:30 11:30-12:00	Liver Dr .Özkoçer Liver Dr .Özkoçer	System: Energy and metabolic rate in biological systems Dr Sırav Aral Sistem: Biyolojik sistemlerde enerji ve metabolik hız Dr Sırav Aral	Role of biles in digestion Dr.Güney Exocrine functions of pancreas Dr.Güney	Synthesis, utilization and regulation of keton bodies Dr. Kavutçu Digestion of proteins, enzymes in stomach and intestines, effects of hormones Dr. Karakaya	Clinical and radiographic Anatomy Dr. Bahçelioğlu Clinical and radiographic Anatomy Dr. Bahçelioğlu
14:00-14:30 14:30-15:00	Gastric ingestion, mechanical and chemical processes Dr. Güney General disorders of the gastrointestinal tract Dr.Güney	Spleen and pancreas Dr.Bahçelioğlu Peritoneum Dr. Bahçelioğlu	Oxidation of fatty acids Dr. Karakaya Synthesis transport and excretion of cholesterol Dr. Karakaya	Transamination, oxidative deamination Dr. Karakaya Urea cycle and its integration with citric acid cycle Dr. Karakaya	Regulation of urea cycle and metabolic disorders Dr. Karakaya Metabolism of Nucleic acids Dr.Canpolat
15:00-15:30 15:30-16:00	Digestion and absorption of dietary fat Dr.Bukan Digestion and absorption of dietary fat Dr.Bukan	Pancreas and Gallbladder Dr.Özkoçer Pancreas and Gallbladder Dr.Özkoçer	Peritoneum Dr. Bahçelioğlu Posterior abdominal wall, abdominal aorta and inferior vena cava Dr.Alim	Posterior abdominal wall, abdominal aorta and inferior vena cava Dr.Alim Posterior abdominal wall, abdominal aorta and inferior vena cava Dr.Alim	Utilization of carbon skeletones of aminoacids in citric acid cycle Dr. Ünal Glycine synthesis, catabolism utilization of synthetic reaction Dr. Ünal

4th 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	Metabolism of serine, Alanine,Cysteine, Methionine and threonine Dr.Ünal Metabolism of serine, Alanine,Cysteine, Methionine and threonine Dr. Ünal	Heat regulation and transfer mechanisms: heat transfer by transmission, radiation Dr Sırav Aral Heat regulation and transfer mechanisms: heat transfer by transmission, radiation Dr Sırav Aral	Functions of vitamins and trace elements Dr. Güney Regulation Feeding, Obesity and Starvation Dr. Sevgili	Naturel potentials and electrical activities of tissues Dr Sırav Aral Naturel potentials and electrical activities of tissues Dr Sırav Aral	MID-TERM EXAM
11:00-11:30 11:30-12:00	Metabolism of branched chain amino acids Dr. Ünal Metabolism of branched chain amino acids Dr. Ünal	Absorbtion and secretion of small intestine Dr.Güney Functions of Colon Dr.Güney	Exercise Physiology Dr. Sevgili Exercise Physiology Dr. Sevgili	Biosynthesis of Proteins and genetic code Dr.Canpolat Posttranslational modifications Dr.Canpolat	
14:00-14:30 14:30-15:00	Exocrine functions of pancreas Dr.Güney Mechanical and chemical events in small intestine Dr.Güney	Biosynthesis of Proteins and genetic code Dr.Canpolat Biosynthesis of Proteins and genetic code Dr.Canpolat	Metabolism of Histidine, Lysine, Hydroxylysine and aromatic Amino Acid Dr. Ünal Metabolism of Histidine, Lysine, Hydroxylysine and aromatic Amino Acid Dr.Ünal	Free Study Time	
15:00-15:30 15:30-16:00	Metabolism of Nucleic acids Dr.Canpolat Metabolism of Nucleic acids Dr.Canpolat	Free Study Time	Free Study Time	Free Study Time	