**T.C.**

**ATILIM UNIVERSITY FACULTY OF MEDICINE**

**EDUCATION IN 2023-2024 ACADEMIC YEAR**

**ACADEMIC CALENDAR**

**Laboratory Lessons:**

1. The muscles of mastication and oral cavity (1 hour, Dr. Öktem & Dr. Brohi)
2. The anterior abdominal wall and inguinal canal, the peritoneum, lesser and greater omenta, omental bursa (1 hour, Dr. Öktem & Dr. Brohi)
3. Abdominal part of oesophagus and stomach (1 hour, Dr. Öktem & Dr. Brohi)
4. Mouth, esophagus, stomach (1 hour, Dr. Aykanat & Dr. Süzer)
5. Intestine and colon (1 hour, Dr. Aykanat & Dr. Süzer)
6. The small and large intestines (1 hour, Dr. Öktem & Dr. Brohi)
7. Clinical Skill: Naso-gastric catheter (2 hours, Dr. Karaahmet)
8. Esophagus, stomach, intestines (1 hour, Dr. Yurdakan Özyardımcı)
9. Intestinal parasites (1 hour, Dr. Tülek & Dr. Acar)
10. The liver, biliary ducts, pancreas (1 hour, Dr. Öktem & Dr. Brohi)
11. The vessels, nerves of the digestive tract and portal system (1 hour, Dr. Öktem & Dr. Brohi)
12. The posterior abdominal wall and the great vessels (1 hour, Dr. Öktem & Dr. Brohi)
13. Liver, gallbladder, pancreas (1 hour, Dr. Aykanat & Dr. Süzer)
14. Liver, pancreas (1 hour, Dr. Yurdakan Özyardımcı)

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| **COMMITTEE NAME** | **STARTING DATE** | **COMPLETION DATE** |
| **MED 301** | 18.09.2023 | 27.10.2023 |
| **MED 303** | 30.10.2023 | 08.12.2023 |
| **MED 305** | 11.12.2023 | 05.01.2024 |

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|  | **MED 301** | **MED 303** | **MED 305** |
| **ANATOMY PRACTICAL EXAM DATE** | 27.10.2023 |  |  |
| **COMMITTEE EXAM DATE** | 27.10.2023 |  |  |

**MED 301 DIGESTIVE SYSTEM COMMITTEE**

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| **PHASE III COORDINATOR** | Prof. Dr. Yekbun ADIGÜZEL |
| **CHAIR OF THE MED 301 COMMITTEE** | Prof. Dr. Gamze YURDAKAN ÖZYARDIMCI |
| **MED 301 COMMITTEE DATE RANGE** | 18.09.2023-27.10.2023 |
| **ACADEMIC STAFF AT THE MED 301 COMMITTEE** | Prof. Dr. Gamze YURDAKAN ÖZYARDIMCI - PathologyProf. Dr. Nedret KILIÇ – Medical BiochemistryProf. Dr. Necla TÜLEK – Medical Microbiology & ImmunologyProf. Dr. Yekbun ADIGÜZEL – Medical BiologyAssoc. Prof. Dr. Hale ÖKTEM – AnatomyAssoc. Prof. Dr. Nuriye Ezgi BEKTUR AYKANAT- Histology and EmbryologyAssoc. Prof. Dr. Fatih KARAAHMET- GastroenterologyAsst. Prof. Dr. Recep BROHİ – AnatomyAsst. Prof. Dr. Ayşegül SÜZER- Histology and EmbryologyAsst. Prof. Dr. Gökşen ÖZ- PharmacologyAsst. Prof. Dr. Ali Doğan DURSUN-Physiology |
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**ACADEMIC STAFF** | **THEORETICAL LECTURE TIME** | **PRACTICAL LECTURE TIME** | **INTERACTIVE EDUCATION****TIME** | **TOTAL TIME** |
| **Anatomy** | 16 | 7 | - | 23 |
| **Histology and Embryology** | 8 | 3 | - | 11 |
| **Microbiology-Immunology** | 17 | 1 | 5 (1 hour case discussion, 1 hour CBL, 3 hours TBL) | 22 |
| **Medical Pharmacology** | 6 | - | - | 6 |
| **Medical Biochemistry** | 18 | - | - | 18 |
| **Medical Pathology** | 22 | 2 |  | 24 |
| **Physiology** | 9 | - | - | 9 |
| **Gastroenterology** | 7 | - | 2(Clinical skills) | 9 |
| **Medical Genetics** | 2 | - | - | 2 |
| **TOTAL** | 105 | 13 | 7 | 125 |

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| **Office Hour** | - |

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| **CONTENT OF THE MED 301 COMMITTEE**  |
| Anatomy and histology of oral cavity; sections the abdominal wall and organs in these regions; anatomy and histology of digestive tracts; anatomy and histology of digestive system glands (liver, bile duct, pancreas); the vessels of the digestive track; clinical anatomy of canalis inguinalis and canalis femoralis; peritoneum; development of gastrointestinal organs; chewing, swallowing, salivation mechanisms; mechanism of digestion and absorption of nutrients; the gastric motility, secretion and emptying mechanisms; secretion and movements of large intestine and defecation mechanism; liver physiology; secretion of liver and pancreas, and regulation of secretion; microorganisms located in the digestive system; microorganisms causing infection in the digestive system; food poisonings and mycotoxins; methods of parasite examination in faeces; antihelmintics and ectoparasites drugs; antiameobic, antimalarial and other drugs effective against protozoa; approach to patient with digestive system problem; diagnostic methods in digestive system diseases; abdominal normal radiological anatomy and evaluation algorithm; esophagus diseases; stomach and duodenum diseases; peptic ulcer treatment; small intestinal diseases; large intestinal diseases; antiemetic-prokinetic drugs; laxatives and antidiarrheal drugs; gastrointestinal system bleedings; approach to patient with hepato-splenomegaly; approach to the patient with ascites; portal hypertension; approach to the patient with jaundice; approach to the patient with jaundice in term of infectious diseases; liver diseases; diseases of bile ducts and gallbladder; pancreatic diseases |
| **MED 301 COMMITTEE AIM** |
| To gain the knowledge about the development, structure and functions, disorders, diagnosis and treatment of the digestive system. |
| **MED 301 COMMITTEE LEARNING OBJECTIVES** |
| 1) Lists the digestive system organs. 2) Describes the anterior abdominal wall and the inguinal canal. 3) Describes the location and function of the peritoneum 4) Defines retroperitoneal and names the retroperitoneal organs. 5) Describes the function of the digestive system. 6) Describes stimuli and controls of digestive activity. 7) Defines the circulation of the digestive system organs. 8) Describes the macroscopic and microscopic anatomy and the basic functions of the mouth, salivary glands, pharynx, and esophagus. 9) Describes the composition and functions of saliva, and explains how salivation is regulated. 10) Defines the masticatory muscles, and explains the mechanisms of chewing and swallowing. 11) Defines the structure of the stomach. 12) Defines the cell types responsible for secreting the various components of gastric juice. 13) Defines the structure of the small intestine, and identifies its structural modifications that enhance the digestive process. 14) Differentiates between the various cell types of the intestinal mucosa. 15) Describes the function of local intestinal hormones and paracrines. 16) Describes the macroscopic and microscopic structure of the liver and bile ducts. 17) Describes the secretion of bile and the role of bile and gallbladder. 18) Describes the role of pancreatic juice in digestion. 19) Describes the structure and functions of the large intestine. 20) Describes the regulation of defecation. 21) Describes the regulation of defecation. 22) Lists the enzymes involved in digestion. 23) Describes the steps of protein, fat, carbohydrate and nucleic acid digestion. 24) Describes embryonic development of the digestive system. 25) Defines the gastrointestinal mucosal barrier. 26) Lists the infectious agents of digestive system, and describes their virulence, microbiological and epidemiological properties. 27) Explains the mechanisms of the diseases caused by the infectious agents and the methods of protection from these diseases. 28) Describes the sample management for microbiological diagnosis and microbiological diagnostic methods of infection agents, and interprets the results. 29) Describes the mechanism and causes of the common symptoms of the digestive system (nausea, vomiting, swallowing difficulty, reflux, dyspepsia, abdominal pain, bloating, diarrhea, constipation). 30) Explains the mechanisms and causes of jaundice. 31) Applies the basic occupational skills for the digestive system. 32) Defines etiologic factors, physiopathologic mechanisms, morphologic types involved in oral cavities, esophagus, stomach, bowel, liver, gallbladder and pancreas33) Describes physiopathologic mechanisms and morphologic changes, explain the importance of these mechanisms’ development in disease processes. |
| **RECOMMENDED BOOKS**1.Clinical Neurology and Neuroanatomy: A Localization-Based Approach (1st Edition); Aaron Berkowitz; McGraw-Hill, 2017.2. Gray’s Anatomy for Students (3rd Edition); Richard L. Drake, A. Wayne Vogl, Adam W. M. Mitchell; Churchill Livingston Elsevier, Philadelphia, 2015.3. Guyton and Hall Textbook of Medical Physiology (13th Edition); John E. Hall; Elsevier, Philadelphia, 2016.4. Histology: A Text and Atlas with Correlated Cell and Molecular Biology (7th Edition); Micheal H. Ross, Wojciech Pawlina; Lippincott Williams & Wilkins, 2015.5. Kaplan and Sadock's Comprehensive Textbook of Psychiatry (10th Edition); Benjamin J. Sadock, Virginia Alcott Sadock, Pedro Ruiz; Lippincott Williams & Wilkins, Philadelphia, 2017.6. Medical Microbiology (7th Edition); Patrick Murray, Ken Rosenthal, Michael Pfaller; Elsevier Saunders, Philadelphia, 2013.7. Molecular and Cellular Biophysics; Meyer B. Jackson; Cambridge University Press, Cambridge, 2006.8. Robbins Basic Pathology (10th Edition); Vinay Kumar, Abul K. Abbas, Jon C. Aster; Elsevier Saunders, Philadelphia, 2018.9. Understanding Pathophysiology First canadian Ed. 2018 by Elsevier Inc. Sue Huether; Kelly PowerKean; Mohamed ElHussein.10. Pathophysiology of Diseases: An introduction in clinical medicine 8 ed. 2019 by McGraw-Hill Education; Lange Inc. Gary D. Hammer, MD, PhD Stephen J. McPhee, MD.11. Pathophysiology: The biologic basis for diseases in adults and children 8th ed. 2019 by Elsevier Inc. Kathryn L. McCance, MS, PhD Sue E. Huether, MS, PhD Valentına L. Brashers, Neal S. Rote, PhD.12. Rapid Review Pathology, Fifth Edition 2019 by Elsevier, Inc. Edward F. Goljan, MD.13. The Developing Human: Clinically Oriented Embryology (10th Edition); Keith L. Moore, T. V. N. Persaud, Mark G. Torchia; Elsevier, Philadelphia, 201514. Harrison's Gastroenterology and Hepatology, 3rd Edition, Dennis Kasper, Anthony Fauci, Stephen Hauser, Dan Longo15. Textbook of Clinical Gastroenterology and Hepatology 2nd Edition, C. J. Hawkey, Jaime Bosch, Joel E. Richter, Guadalupe Garcia-Tsao, Francis K. L. Chan 16. Current Diagnosis & Treatment Gastroenterology, Hepatology, & Endoscopy, Third Edition (Lange Current) 3rd Edition, Norton Greenberger, Richard Blumberg, Robert Burakoff17. Sleisenger and Fordtran's Gastrointestinal and Liver Disease, Mark Feldman MD, Lawrence S. Friedman MD, Lawrence J. Brandt MD18. Medical Microbiology (9th Edition); Patrick Murray, Ken Rosenthal, Michael Pfaller; Elsevier Saunders, Philadelphia, 2020.19. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases. John Bennett Raphael Dolin Martin J. Blaser. 9 th edition., 201920. Jawetz, Melnick, & Adelberg's Medical Microbiology, 28e, McGraw-Hill Education, 2019 |
| **MED 301 COMMITTEE EXAM WEEK** |
| **DATE** | **EXAM NAME** | **EXAM HOUR** |
| 27.10.2023 | MED 301 Committee Practical Exam | 09:30-12:00 |
| 27.10.2023 | MED 301 Committee Exam | 13:00-15:20 |
| **Teaching Methods and Techniques** |

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| [x]  Lecture | [ ]  Case based learning | [x]  Case discussion | [ ]  Student presentation |
| [x]  Discussion | [ ]  Problem based learning | [ ]  Project | [ ]  Homework |
| [ ]  Role playing | [ ]  Lab report  | [x]  Self-learning | [x]  Laboratory practice |
| [ ]  Online education | [x]  Clinical skill | [x]  Team based learning | [ ]  Flip class-based learning |

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| **Evaluation Method** | Theoretical exam (85%), Team Based Learning (7%), Laboratory (5%: Anatomy), Clinical Skills (3%) |
| **Lesson Language** | English |