**T.C.**

**ATILIM UNIVERSITY FACULTY OF MEDICINE**

**EDUCATION IN 2024-2025 ACADEMIC YEAR**

**ACADEMIC CALENDAR**

**Laboratory Lessons:**

1. Temporal region, the temporomandibular joint- and 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 burs (1 hour, Dr. Öktem & Dr. Brohi)
3. Mouth, esophagus, stomach (1 hour, Dr. Aykanat)
4. The liver, biliary ducts, pancreas (1 hour, Dr. Öktem & Dr. Brohi)
5. Esophagus, stomach and the small and large intestines (1 hour, Dr. Öktem & Dr. Brohi)
6. The liver, biliary ducts, pancreas and the vessels, nerves of the digestive tract and portal system The posterior abdominal wall and the great vessels (1 hour, Dr. Öktem & Dr. Brohi)
7. Liver, gallbladder, pancreas (1 hour, Dr. Aykanat)
8. Esophagus, stomach, intestines (1 hour, Dr. Yurdakan Özyardımcı)
9. Anatomy Review (1 hour, Dr. Öktem & Dr. Brohi)
10. Intestinal Parasites (1 hour, Dr. Usluca)
11. Liver, pancreas (1 hour, Dr. Yurdakan Özyardımcı)

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| **COMMITTEE NAME** | **STARTING DATE** | **COMPLETION DATE** |
| **MED 301** | 18.09.2024 | 01.11.2024 |
| **MED 303** | 04.11.2024 | 13.12.2024 |
| **MED 305** | 16.12.2024 | 10.01.2025 |
| **MED 302** |  |  |
| **MED 304** |  |  |
| **MED 306** |  |  |

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|  | **MED 301** | **MED 202** | **MED 203** | **MED 204** |
| **ANATOMY PRACTICAL EXAM DATE** | 31.10.2024 |  |  |  |
| **HISTOLOGY AND EMBRYOLOGY PRACTICAL EXAM DATE** | - |  |  |  |
| **MEDICAL MICROBIOLOGY PRACTICAL EXAM DATE** | - |  |  |  |
| **MEDICAL PATHOLOGY PRACTICAL EXAM DATE** | - |  |  |  |
| **CLINICAL SKILL EXAM** | 01.11.2024 |  |  |  |
| **COMMITTEE EXAM DATE** | 30.10.2024 |  |  |  |

**MED 301 DIGESTIVE SYSTEM COMMITTEE**

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| **PHASE III COORDINATOR** | Prof. Dr. Yekbun ADIGÜZEL | | | |
| **CHAIRMAN OF THE MED 301 COMMITTEE** | Prof. Dr. Gamze YURDAKAN ÖZYARDIMCI | | | |
| **MED 301 COMMITTEE DATE RANGE** | 18.09.2024 - 01.11.2024 | | | |
| **ACADEMIC STAFF AT THE MED 301 COMMITTEE** | Prof. Dr. Necla TÜLEK – Medical Microbiology & Immunology  Prof. Dr. Gamze YURDAKAN ÖZYARDIMCI - Pathology  Prof. Dr. Nedret KILIÇ – Medical Biochemistry  Prof. Dr. Yekbun ADIGÜZEL – Medical Biology  Prof. Dr. Selma USLUCA - Medical Microbiology  Assoc. Prof. Dr. Hale ÖKTEM – Anatomy  Assoc. Prof. Dr. Nuriye Ezgi BEKTUR AYKANAT- Histology and Embryology  Assoc. Prof. Fatih KARAAHMET – Gastroenterology  Asst. Prof Dr. Aykut İlker ARSLAN - Medical Microbiology  Asst. Prof. Dr. Recep Ali BROHİ – Anatomy  Asst. Prof Dr. Badegül SARIKAYA – Physiology  Asst. Prof Dr. Sami EREN – Pharmacology  Asst. Prof Dr. Onur BULUT - Biochemistry | | | |
| |  |  | | --- | --- | |  |  |   **ACADEMIC STAFF** | **THEORETICAL LECTURE TIME** | **PRACTICAL LECTURE TIME** | **INTERACTIVE EDUCATION**  **TIME** | **TOTAL TIME** |
| **Anatomy** | 15 | 6 | - | 21 |
| **Histology and Embryology** | 8 | 2 | - | 10 |
| **Microbiology-Immunology** | 19 | 1 | 1 (1 hour case based learning) | 21 |
| **Medical Pharmacology** | 5 | - | - | 5 |
| **Medical Biochemistry** | 7 | - | - | 7 |
| **Medical Pathology** | 18 | 2 |  | 20 |
| **Physiology** | 8 | - | - | 8 |
| **Medical Genetics** | 3 | - | - | 3 |
| **Gastroenterology** | 0 | - | 4 (Clinical Skills) | 4 |
| **Problem-Based Learning** |  |  | 6 | 6 |
| **TOTAL** | 83 | 11 | 11 | 105 |

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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 regulaton 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; 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'S AIM** | | |
| To gain knowledge about the development, structure and functions, disorders, diagnosis and treatment of the digestive system to give information about symptoms and findings of disorders related to the system to provide basic medical skills. | | |
| **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, and carbohydrate 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, diarrhea, constipation).  30) Explains the mechanisms and causes of jaundice.  31) Applies the basic occupational skills for the digestive system.  32) Define etiologic factors, physiopathologic mechanisms, morphologic types involved in oral cavities, esophagus, stomach, bowel, liver, gallbladder and pancreatic disorders.  33) Describe physiopathologic mechanisms and morphologic changes, explain the importance of these mechanisms’ development in disease processes.  34) Describe the drugs used in the treatment of digestive diseases. | | |
| **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, 2015 14. Harrison's Gastroenterology and Hepatology, 3rd Edition, Dennis Kasper, Anthony Fauci, Stephen Hauser, Dan Longo 15. 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 Burakoff 17. Sleisenger and Fordtran's Gastrointestinal and Liver Disease, Mark Feldman MD, Lawrence S. Friedman MD, Lawrence J. Brandt MD 18. 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., 2019 20. Jawetz, Melnick, & Adelberg's Medical Microbiology, 28e, McGraw-Hill Education, 2019 21. Apurba S Sastry, Sandhya Bhat, Essentials of Medical Microbiology, 3th Edition, Jaypee Brothers Medical Publishers, New Delhi | London, 2021. 22. Netter’s Infectious Diseases, Elaine C. Jong, Dennis L. Stevens, Elsevier, 2th Edition, 2022. 23. Sherris &Ryan’s Medical Microbiology, Kenneth J. Ryan, 9th Edition, McGraw Hill / Medical, 2022. 24. Katzung's Basic and Clinical Pharmacology (Ed. Todd W. Vanderah),16th Edition, McGraw Hill Lange, 2023. 25. Goodman and Gilman's The Pharmacological Basis of Therapeutics (Eds: L. Brunton,‎ B. Knollmann, R. Hilal-Dandan), 14th Edition, McGraw Hill, 2022. | | |
| **MED 301 COMMITTEE EXAM WEEK** | | |
| **DATE** | **EXAM NAME** | **EXAM HOUR** |
| 30.10.2024 | MED 301 Committee Exam | 13:30-16:20 |
| 31.10.2024 | MED 301 Committee Practical Exam | 09:30-12:00 |
| 01.11.2024 | MED 301 Clinical Skill Exam | 09:30-12:00 |
| **Teaching Methods and Techniques** | |  |  |  |  | | --- | --- | --- | --- | | Lecture | Case based learning | Case discussion | Student presentation | | Discussion | Problem based learning | Project | Homework | | Role playing | Lab report | Self-learning | Laboratory practice | | Online education | Clinical skill | Team based learning | Flip class-based learning | | |
| **Evaluation Method** | Theoretical exam (83%), Laboratory (Anatomy) (7%), Problem Based Learning (5%), Clinical Skills (5%) | |
| **Lesson Language** | English | |