**T.C.**

**ATILIM UNIVERSITY FACULTY OF MEDICINE**

**EDUCATION IN 2025-2026 ACADEMIC YEAR**

**ACADEMIC CALENDAR**

**Laboratory Lessons:**

1. Histology of Tonsilla palatina and Lymph Node & Histology of the Spleen and Thymus (1 hour, Dr. Aykanat)
2. Clinical Skill-1: Physical examination of lymph node (1 hour, Dr. Öktem)
3. Clinical Skill-2: Fever Measurement (1 hour, Dr. Usluca/Dr. Özcan/ Dr. Eren)

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| **COMMITTEE NAME** | **STARTING DATE** | **COMPLETION DATE** |
| **MED 201** | 22.09.2025 | 31.10.2025 |

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|  | **MED 201** | **MED 202** | **MED 203** | **MED 204** |
| **CLINICAL SKILL EXAM DATE-1** | 31.10.2025 |  |  |  |
| **CLINICAL SKILL EXAM DATE-2** | 31.10.2025 |  |  |  |
| **COMMITTEE EXAM DATE** | 31.10.2025 |  |  |  |

**MED 201 COMMITTEE**

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| **PHASE II COORDINATOR** | Asst. Prof. Dr. Badegül Sarıkaya |
| **CHAIR OF THE MED 201 COMMITTEE** | Assoc. Prof. Dr. Selma Usluca |
| **MED 201 COMMITTEE DATE RANGE** | 22.09.2025 – 31.10.2025 |
| **ACADEMIC STAFF AT THE MED 201 COMMITTEE** | Prof. Dr. N.Engin AYDIN- PathologyProf. Dr.Yekbun ADIGÜZEL-Medical BiologyProf. Dr. Ahmet SALTIK -Public Health Prof. Dr. Nedret KILIÇ – Medical BiochemistryProf. Dr. Necla TÜLEK – Medical Microbiology & ImmunologyAssoc. Prof. Dr. Selma USLUCA– Medical Microbiology & ImmunologyAssoc. Prof. Dr. Çiğdem EROL- Infectious Disease and Clinical MicrobiologyAsst. Prof. Dr. Gülin ÖZCAN KUYUCU- Medical MicrobiologyAssoc. Prof. Dr. Hale ÖKTEM – AnatomyAssoc. Prof. Dr. Nuriye Ezgi BEKTUR AYKANAT- Histology and EmbryologyAsst. Prof. Dr. Sami EREN- PharmacologyAssoc. Prof.Dr. Ali Doğan DURSUN-PhysiologyAsst. Prof. Dr. Badegül SARIKAYA-PhysiologyAsst. Prof. Dr. Atakan TEVLEK- Medical Biology |
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**ACADEMIC STAFF** | **THEORETICAL LECTURE TIME** | **PRACTICAL LECTURE TIME** | **INTERACTIVE EDUCATION****TIME** | **TOTAL TIME** |
| **Anatomy** | 2 | 1 (Clinical Skill) | - | 3 |
| **Histology & Embryology** | 7 | 1 | - | 8 |
| **Microbiology-Immunology** | 38 | 1 (Clinical Skill) | - |  |
| **Pharmacology** | 11 | - | - | 11 |
| **Medical Biochemistry** | 2 | - | - | 2 |
| **Medical Pathology** | 12 | - | - | 12 |
| **Physiology** | 2 | - | - | 2 |
| **Medical Biology** | 4 | - | - | 4 |
| **Public Health** | 2 | - | - | 2 |
| **PBL** | - | - | 6 | 6 |
| **TOTAL** |  |  |  |  |
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| **Advisor Visit**  | 3 Hours |

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| **CONTENT OF THE MED 201 COMMITTEE**  |
| Introduction to anatomy, development of the cells and organs of immune system, general features and functions of immune cells, innate and acquired immune response, immune response against microorganisms, community immunisation, hypersensitivity, autoimmunity, immunodeficiency, immune modulation, autacoids, antibiotic use, and resistance mechanisms, fluid and hemodynamic disorders, introduction to inflammation and acute inflammation, chronic inflammation and clinical aspect of inflammation, tissue repair mechanisms, cancer etiology and basic mechanisms of cancer development, nonneoplastic disorders of WBC, disorders of thymus and spleen, the spectrum of the inflammatory response to infections, autoimmune disorders, rejection of the tissue transplants, ergot alkaloids, non-steroidal anti-inflammatory drugs, synthetic corticosteroids |
| **MED 201 COMMITTEE AIM** |
| To overview the definition and elements of the immune system, the development, structure and functions of the immune system elements, disorders related to this system, Also, to gain basic medical skills for evaluation of immune system. To give information about human flora, fever mechanism. To evaluate the pharmacological effects and therapeutic uses of anti-inflammatory agents. |
| **MED 201 COMMITTEE LEARNING OBJECTIVES** |
| 1. Explains the medical importance of Immune Systems.
2. Lists the elements of immune system.
3. Describes the essential characteristics of humoral and cell-mediated immunity
4. Explains the embryological development and histological features of tonsilla palatina.
5. Describes the embryological development and histological features of the lymph node.
6. Explains embryological development and histological features of the thymus and spleen.
7. Explains the histological features and functions of the cells of the immune system.
8. Explains anatomy and functions of lymphoid tissues.
9. Explains the leukocyte circulation and migration.
10. Describes the innate immunity; components and functions.
11. Defines the complement system.
12. Describes the acute and chronic inflammation and mechanisms involved.
13. Defines antigens and antibodies.
14. Describes the theory of clonal selection.
15. Explains the recognition of microorganisms by the immune system.
16. Explains the stimulation of adaptive immunity.
17. Describes the cells involved in the adaptive immune response-T cells, B cells and antigen presenting cells.
18. Explains pathogenesis of the non-neoplastic disorders of the leukocytes.
19. Describe non-neoplastic diseases of lymph nodes and explain the spleen & thymus disorders
20. Explains B cell activation and antibody production.
21. Describes the antibody structure and functions.
22. Explains the antigen presentations of T lymphocyte.
23. Describes the role of MHC in the immune responses
24. Defines Immune receptors and signal transduction
25. Explains the activation of T lymphocytes
26. Explains the difference between self and non-self
27. Explains the Immunologic tolerance and autoimmunity.
28. Describes the role of immunogenetics, infections, tissue injury, and other environmental factors in autoimmunity
29. Explains the immune response against microorganisms
30. Describes in overall terms what the host defence is, why we need is, what it does and how it does it
31. Explains the mechanisms of hypersensitivity disorders and give two examples for each
32. Discuss the immunologic basis of graft rejection
33. Describes the primary and secondary immunodeficiencies
34. Describes a range of tests used in evaluation of immune system and immune response.
35. Describes the flow cytometry principles, applications, and clinical perspectives.
36. Describes fluid and hemodynamic disorders
37. Defines inflammation, clinical aspects of the inflammation and tissue repair mechanism
38. Explains the nomenclature of the neoplasms, properties of the benign and malignant tumors
39. Defines the spectrum of the inflammatory response to infections
40. Explains thymus and spleen disorders
41. Defines the autacoids and related drugs
42. Describes knowledge on vaccination from Public Health point of view
43. Defines Vaccination & Immunisation and differences in between
44. Explains the rational of community (herd) and individual immunity
45. Identifies the vaccine preventable major diseases and vaccination schedule
46. Describes the medical and legal norms of vaccination at national & international level
47. Explains with the essential role of vaccination in fighting against infectious diseases
48. Describes the principles of Vaccination in different age groups and conditions
49. Explains the basis of vaccine hesitancy and refusal
50. Discusses the Vaccination is one of the most cost-effective tool in protecting the people before and during epidemics of certain contagious diseases
51. Explains vaccine coverage an eliminating – eradicating of infectious disease by mass roll up
52. Define the acute-phase response.
53. Identify the main acute-phase proteins, such as C-reactive protein (CRP) and fibrinogen, and differentiate between positive and negative acute-phase reactants.
54. Describe the role of cytokines (e.g., IL-6, TNF-α) in stimulating the liver to synthesize acute-phase proteins.
55. Explain the clinical significance of measuring serum levels of acute-phase proteins as markers of inflammation.
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| **RECOMMENDED BOOKS**1. Katzung's Basic and Clinical Pharmacology (Ed. Todd W. Vanderah),16th Edition, McGraw Hill Lange, 2023.
2. Basic and Clinical Pharmacology (Ed. Katzung BG, Masters SB, Trevor AJ), 12th Edition, McGraw Hill Lange, 2012.
3. Goodman and Gilman's The Pharmacological Basis of Therapeutics (Eds: L. Brunton,‎ B. Knollmann), 14th Edition, McGraw Hill, 2022.
4. Goodman & Gillman’s The Pharmacological Basis of Therapeutics (Ed. Brunton LL, Hilal-Dandan R, Knollmann BC), 13th Edition, McGraw-Hill Education, 2018.
5. Braddom's Physical Medicine and Rehabilitation (5th Edition); David X. Cifu MD; Elsevier, Philadelphia, 2016.
6. Gray’s Anatomy for Students (3rd Edition); Richard L. Drake, A. Wayne Vogl, Adam W. M. Mitchell; Churchill Livingston Elsevier, Philadelphia, 2015.
7. Guyton and Hall Textbook of Medical Physiology (13th Edition); John E. Hall; Elsevier, Philadelphia, 2016.
8. Histology and Cell Biology: An Introduction to Pathology (4th Edition); Abraham L. Kierszenbaum, Laura L. Tres; Elsevier Saunders, Philadelphia, 2015.
9. Medical Microbiology 9th Edition. Murray, Rosenthal, Pfaller, Elsevier Saunders, Philadelphia,2020
10. Jawetz, Melnick, & Adelberg's Medical Microbiology, 28e, 2019, McGraw-Hill Education
11. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 9th Edition, Bennett, JE, Dolin R, Blaser MJ. Elsevier, 2019
12. Robbins Basic Pathology (10th Edition); Vinay Kumar, Abul K. Abbas, Jon C. Aster; Elsevier Saunders, Philadelphia, 2018.
13. Basic Immunology: Functions and Disorders of the Immune System, 6e, Abbas, Lichmann, Pillai, Elsevier, 2019.
14. Review of Medical Microbiology and Immunology, 17th Edition by Warren Levinson, Peter Chin-Hong, Elizabeth Joyce, Jesse Nussbaum, Brian Schwartz. 2022.
15. Murray, Rosenthal, Pfaller. Medical Microbiology (9th Edition); 2020.
16. Jawetz, Melnick, & Adelberg's Medical Microbiology, 28e, 2019, McGraw-Hill Education.
17. Sherris &Ryan’s Medical Microbiology, Kenneth J. Ryan, 9th Edition, McGraw Hill / Medical, 2022.
18. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 9th Edition, Bennett, JE, Dolin R, Blaser MJ. Elsevier, 2020.
19. Understanding Pathophysiology First canadian Ed. 2018 by Elsevier Inc. Sue Huether; Kelly PowerKean; Mohamed ElHussein.
20. 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.
21. 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.
22. Rapid Review Pathology, Fifth Edition 2019 by Elsevier, Inc. Edward F. Goljan, MD.
23. Textbook of Community Medicine: Preventive and Social Medicine (8th Edition). CBS Publishers. CBS Publishers & Distributors ISBN 13: 978 9354666070 (ISBN 10: 9354666078), 8th. Ed., 2024
24. Lehninger Principles of Biochemistry, 8th Edition, David L. Nelson, Michael M. Cox. W.H. Freeman & Company, 2021.
25. Lippincott® Illustrated Reviews: Biochemistry, 9th Edition, North American Edition. Emine Ercikan Abali, Susan D. Cline, David S. Franklin, Dr. Susan M. Viselli, 2025.
26. Peter J. Kennelly, Kathleen M. Botham, Owen McGuinness, Victor W. Rodwell, P. Anthony Weil - Harper's Illustrated Biochemistry-McGraw Hill, 2022.
27. John W. Baynes PhD, Marek H. Dominiczak Dr Hab Med FRCPath (Editor), Medical Biochemistry, 6th Edition, Elsevier, 2022.
28. Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics (Tietz Textbook of Clinical Chemistry and Molecular Diagnostics) 9th Edition, Nader Rifai PhD (Editor), 2023.
29. Cell and molecular biology (2th edition); Nalini Chandar, PhD, Susan Viselli, PhD, Lipincot Wiliams & Wilkins, 2019.
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| **MED 201 COMMITTEE EXAM WEEK** |
| **DATE** | **EXAM NAME** | **EXAM HOUR** |
| 31.10.2025 | Clinical Skill Exam-1 | 14:30-17:20 |
| 31.10.2025 | Clinical Skill Exam-2 | 14:30-17:20 |
| 31.10.2025 | MED 201 Committee Exam | 09:30-12:20 |
| **Teaching Methods and Techniques** |

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| ☒ 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 | ☐ Flipped Class |
| ☒ Quiz |  |  |  |

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| **Evaluation Method** | Theoretical Exam (84%), Clinical Skills-1 (5%), Clinical Skills-2 (5%), PBL(5%), Microbiology-ımmunology quiz (1%) |
| **Lesson Language** | English |