**T.C.**

**ATILIM UNIVERSITY FACULTY OF MEDICINE**

**EDUCATION IN 2024-2025 ACADEMIC YEAR**

**ACADEMIC CALENDAR**

**Laboratory Lessons:**

1. Fundamentals of microscopy (1 hour, Dr. Tevlek)
2. Clinical Skill: Hand hygiene (1 hour, Dr. Usluca & Dr. Özcan)

| **COMMITTEE NAME** | **STARTING DATE** | **COMPLETION DATE** |
| --- | --- | --- |
| **MED 101** | **22.09.2025** | **17.10.2025** |
| **MED 103** | 20.10.2025 | 05.12.2025 |
| **MED 105** | 08.12.2025 | 09.01.2026 |

| **COMMITTEE NAME** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | **MED 101** | **MED 102** | **MED 103** | **MED 104** | **MED 105** | **MED 106** |
| **CLINICAL SKILL**  **EXAM DATE** | 17.10.2025 |  |  |  |  |  |
| **COMMITTEE EXAM DATE** | 16.10.2025 |  |  |  |  |  |

**MED101 INTRODUCTION TO MEDICINE COMMITTEE**

| **PHASE I COORDINATOR** | Assoc. Prof. Dr. Nuriye Ezgi BEKTUR AYKANAT | | | |
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| **CHAIR OF THE MED 101 COMMITTEE** | Prof. Dr. Yekbun ADIGÜZEL | | | |
| **MED 101 COMMITTEE DATE RANGE** | 22.09.2025- 17.10.2025 | | | |
| **ACADEMIC STAFF**  **AT THE MED 101 COMMITTEE** | Prof. Dr. Necla TÜLEK-Medical Microbiology  Prof. Dr. Yekbun ADIGÜZEL- Medical Biology  Prof. Dr. Nedret KILIÇ- Medical Biochemistry  Prof. Dr. Ahmet SALTIK- Public Health Prof. Dr. Nesrin ÇOBANOĞLU- Deontology Prof. Dr. Ayşe ÇAYLAN**-** Family Medicine  Assoc. Prof. Dr. Selma USLUCA-Medical Microbiology  Assoc. Prof. Dr. Hale ÖKTEM- Anatomy  Assoc. Prof. Dr. Nuriye Ezgi BEKTUR AYKANAT-Histology and Embryology  Assoc. Prof. Dr. Göksu BOZDERELİ BERIKOL- Emergency Medicine  Asst. Prof. Dr. Özge BOYACIOĞLU-Medical Biochemistry  Asst. Prof. Dr. Melike EROL DEMİRBİLEK- Medical Biochemistry  Asst. Prof. Dr. Badegül SARIKAYA- Physiology  Asst. Prof. Dr. Sami EREN- Medical Pharmacology  Asst. Prof. Dr. Gülin ÖZCAN KUYUCU- Medical Microbiology  Asst. Prof. Dr. Atakan TEVLEK- Medical Biology  Res. Asst. Sinem Nur SEVER-Anatomy  Res. Asst. Özgecan OCAKÇI – Medical Biology  Res. Asst. Berfin Deniz KALALİ – Medical Biochemistry  Res. Asst. Asya KAZAN – Medical Microbology  Res. Asst. Tuğçe KÖKTAŞ – Physiology | | | |
| |  |  | | --- | --- |   **ACADEMIC STAFF** | **THEORETICAL LECTURE TIME** | **PRACTICAL LECTURE TIME** | **INTERACTIVE EDUCATION**  **TIME** | **TOTAL TIME** |
| **Anatomy** | 7 | - | - | 7 |
| **Histology and Embryology** | 1 | - | - | 1 |
| **Medical Microbiology** | 8 | 1 | - | 9 |
| **Medical Pharmacology** | 1 | - | - | 1 |
| **Medical Biochemistry** | 7 | - | - | 7 |
| **Medical Biology** | 8 | 1 | - | 9 |
| **Deontology** | 8 | - | - | 8 |
| Biostatistics | 1 | - | - | 1 |
| Medical Informatics | 1 |  |  | 1 |
| **Physiology** | 1 | - | - | 1 |
| **Public Health** | 12 | - | - | 12 |
| **Family Medicine** | 3 | - | - | 3 |
| **TOTAL** | 58 | 2 | - | 60 |

| **Advisor Visit** | **1 Hour** |
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| **CONTENT OF THE MED 101 COMMITTEE** | | |
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| Atılım University School of Medicine; what is science; what is medicine; physician's oath; visit to Medicana Hospital clinics; professionalism in medicine; clinical ethics support services in Turkey; problem-based learning for medical ethics; basic medical skills; basic communications skills. | | |
| **MED 101 COMMITTEE AIM** | | |
| To gain knowledge about physician's identity, physician-patient’s roles, rights and responsibilities, medical education, history of medicine, basic ethics concepts and methods.  Also, to gain skills for basic communication and medical practices. | | |
| **MED 101 COMMITTEE LEARNING OBJECTIVES** | | |
| 1. Explains the concept of science and medicine. 2. Determines the philosophy of science and research. 3. Explains the history of research. 4. Lists the basic principles of science and research ethics. 5. Lists the basic principles of scientific publication ethics. 6. Explains the importance of leadership in science. 7. Describes the basic research methods. 8. Investigates the research resources. 9. Attends to teamwork. 10. Describes and applies basic communication skills. 11. Performs basic medical skills. 12. Describes the dianostic stages and techniques in pathology laboratory. 13. Describes the hand hygiene 14. Describe how to protect himself from infectious agents 15. Define and explain epidemics and developments of pandemics 16. Define the fundamental principles of biochemistry and its critical role in understanding human health and disease. 17. Describe the hierarchical levels of protein structure: primary, secondary, tertiary, and quaternary. 18. Explain the role of amino acids as the building blocks of proteins and differentiate between essential and non-essential amino acids. 19. Analyze how different types of bonds (peptide bonds, hydrogen bonds, disulfide bridges) maintain protein structure. 20. Relate the three-dimensional structural specificity of the proteins to its biological function. 21. Discuss the process of protein denaturation and its clinical implications at a basic level. 22. Characterize the key features of globular proteins, such as their compact, spherical shape and solubility in water. 23. Examine the structure and function of important globular proteins, specifically hemoglobin and myoglobin. 24. Compare the oxygen-binding properties of myoglobin and hemoglobin. 25. Discuss the clinical significance of mutations in globular proteins at a basic level. 26. Identify the four basic word elements used to form medical words. 27. Divide medical words into their component parts. 28. Define and provide examples of surgical, diagnostic, pathological, and related suffixes. 29. Determine the use of a combining form and word root when linking these elements to a suffix. 30. Explain the use of prefixes in medical terminology. 31. Explain how a prefix changes the meaning of a medical word. 32. Identify prefixes of position, number and measurement, and direction. 33. Understand and identify levels of organization and anatomical planes of the body. 34. Identify the cavities, quadrants, and regions of the body. 35. Understand the terms related to direction, position, and planes of the body. 36. Describe diagnostic and therapeutic procedures and other terms associated with body structure. 37. Define the core concepts of biomedical informatics, its sub-fields (e.g., clinical informatics, public health informatics, computational biology), and its role in healthcare, research, and public health. 38. Define fundamental biostatistical terms commonly used in medical research (e.g., variable types, population, sample, hypothesis). | | |
| **RECOMMENDED BOOKS**   1. Basic & Clinical Pharmacology (14th Edition); Bertram G. Katzung,‎ Anthony J. Trevor; McGraw-Hill, 2018. 2. Braddom's Physical Medicine and Rehabilitation (5th Edition); David X. Cifu MD; Elsevier, Philadelphia, 2016. 3. Gray’s Anatomy for Students (3rd Edition); Richard L. Drake, A. Wayne Vogl, Adam W. M. Mitchell; Churchill Livingston Elsevier, Philadelphia, 2015. 4. Guyton and Hall Textbook of Medical Physiology (13th Edition); John E. Hall; Elsevier, Philadelphia, 2016. 5. Histology and Cell Biology: An Introduction to Pathology (4th Edition); Abraham L. Kierszenbaum, Laura L. Tres; Elsevier Saunders, Philadelphia, 2015. 6. Medical Microbiology (8th Edition); Patrick Murray, Ken Rosenthal, Michael Pfaller; Elsevier Saunders, 9 th. Edition, Philadelphia, 2020. 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. Harper’s Illustrated Biochemistry (30th Edition); Victor W. Rodwell, David Bender, Kathleen M. Botham, Peter J. Kennelly, P. Anthony Weil; McGraw-Hill, 2015. 10. Pagano, M., & Gauvreau, K. (2018). Principles of Biostatistics (2nd ed.). Chapman and Hall/CRC. <https://doi.org/10.1201/9780429489624> 11. Leadership: Theory and Practice (7th edition); Peter G. Northouse; SAGE Publications, 2015 12. Principles of Biomedical Ethics (7th Edition); Tom L. Beauchamp, James F. Childress; Oxford University Press, 2012 13. The Book of Why: The New Science of Cause and Effect (1st Edition); Judea Pearl, Dana Mackenzie; Harvard Health Publications, 2018 14. The Nature of Creative Development (1st Edition); Jonathan S. Feinstein; Stanford University Press, Stanford, 2006. 15. Cell and molecular biology (2th edition); Nalini Chandar, PhD, Susan Viselli, PhD, Lipincot Wiliams & Wilkins, 2019. 16. Molecular cell biology (8th edition); Harvey Lodish, W.H.Freeman & Co Ltd, 2016. 17. Molecular biology of the cell (6th edition); Bruce Alberts, W. W. Norton & Company, 2015. 18. Medical Terminology Systems, A Body Systems Approach (Fifth Edition); Barbara A. Gylys, Mary Ellen Wedding, F. A. Davis Company, Philadelphia, 2005. 19. Biomedical Informatics: Computer Applications in Health and Biomedicine by Edward H. Shortliffe and James J. Cimino 20. Lehninger Principles of Biochemistry, 8th Edition, David L. Nelson, Michael M. Cox. W.H. Freeman & Company, 2021. 21. Lippincott® Illustrated Reviews: Biochemistry, 9th Edition, North American Edition. Emine Ercikan Abali, Susan D. Cline, David S. Franklin, Dr. Susan M. Viselli, 2025. 22. Peter J. Kennelly, Kathleen M. Botham, Owen McGuinness, Victor W. Rodwell, P. Anthony Weil - Harper's Illustrated Biochemistry-McGraw Hill, 2022. 23. John W. Baynes PhD, Marek H. Dominiczak Dr Hab Med FRCPath (Editor), Medical Biochemistry, 6th Edition, Elsevier, 2022. 24. Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics (Tietz Textbook of Clinical Chemistry and Molecular Diagnostics) 9th Edition, Nader Rifai PhD (Editor), 2023.   **OTHER RESOURCES:**   1. Using Personal Protective Equipment:<https://www.cdc.gov/coronavirus/2019-ncov/hcp/using-ppe.html> 2. Epidemic Disease Occurrence: <https://www.cdc.gov/csels/dsepd/ss1978/lesson1/section11.html> 3. **LABORATORY BIOSAFETY MANUAL** (<https://iris.who.int/bitstream/handle/10665/337956/9789240011311-eng.pdf?sequence=1>). 4. **LABORATORY DESIGN AND MAINTENANCE** (<https://iris.who.int/bitstream/handle/10665/337960/9789240011397-eng.pdf?sequence=1>). 5. **BIOLOGICAL SAFETY CABINETS AND OTHER PRIMARY CONTAINMENT DEVICES** (<https://iris.who.int/bitstream/handle/10665/337957/9789240011335-eng.pdf?sequence=1>). 6. **Standard Safety Practices in the Microbiology Laboratory (Appendix 1)** (<https://cdn.who.int/media/docs/default-source/antimicrobial-resistance/amr-spc-sel-glass/who-cds-csr-rmd-2003-6(appendices1-2).pdf?sfvrsn=5895a177_2)>. 7. **DECONTAMINATION AND WASTE MANAGEMENT** (<https://iris.who.int/bitstream/handle/10665/337958/9789240011359-eng.pdf?sequence=1>). 8. **WHO Guidelines on Hand Hygiene in Health Care (**<https://iris.who.int/bitstream/handle/10665/44102/9789241597906_eng.pdf?sequence=1>) 9. **Hand Hygiene Technical Reference Manual (**<https://iris.who.int/bitstream/handle/10665/44196/9789241598606_eng.pdf?sequence=1>) 10. **WHO Guidelines on Hand Hygiene in Health Care (**<https://iris.who.int/bitstream/handle/10665/44102/9789241597906_eng.pdf?sequence=1>) | | |
| **MED 101 COMMITTEE EXAM WEEK** | | |
| **DATE** | **EXAM NAME** | **EXAM HOUR** |
| 17.10.2025 | Clinical Skill Examination | 09:30-12:20 |
| 16.10.2025 | MED 101 Committee Exam | 09:30-12:20 |
| **Teaching Methods and Techniques** | | ☒ Lecture | ☐ Case based learning | ☐ Case discussion | ☐ Student presentation | | --- | --- | --- | --- | | ☐ Role playing | ☐ Problem based learning | ☐ Project | ☐ Homework | | ☒ Laboratory practice | ☐ Team based learning | ☒ Self Learning | ☐ Team based learning | | ☒ Quiz |  |  |  | | |
| **Evaluation Method** | Theoretical Exam (94%), Clinical Skills (5%), Quiz (Medical Terminology) (1%) | |
| **Lesson Language** | English | |