**T.C. MALTEPE UNIVERSITY FACULTY OF MEDICINE**

**UNDERGRADUATE PROGRAM
2023-2024 ACADEMIC YEAR**

**EDUCATIONAL INFORMATION PACKAGE**

| **COURSE INFORMATION** |
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| **Course Name** | **Phase II Occupational Lecture**  | **Course Code** | **MED 200** |
| **Phase**  | 2 | **Level of the Course** | Undergraduate | **Language of the Course** | English |
| **Mode of Delivery** | Face to face, E-Learning, hybrid | **Lesson Type** | Compulsory |
| **Practice/Laboratuary Site** | Basic Medical Sciences Student Laboratory | **Suggested Courses** | None |
| **Prerequisite** | MED 100  | Concurrent Requirements:None |

| **ECTS**  |
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| **ECTS Credits** | **Theoretical Lecture Hours** | **Practical Hours** | **Course Duration** |
| 52 | 490 | 126 | 35 weeks |

| **COURSE COORDINATORS AND INSTRUCTORS** |
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| **Phase Coordinator and Assistant of the Coordinator**Prof. Barış ÇAKIRAssist. Prof. Zeynep AKBULUT**Subject Committee Coordinators**

| Nervous System Subject Committee | Prof. Necla ÖZTÜRK |
| --- | --- |
| Blood, Circulation and Respiratory System Subject Committee | Prof. M. Erinç SITAR |
| Gastrointestinal System And Metabolism Subject Committee | Prof. Canan KÜLAH |
| Endocrine and Urogenital System Subject Committee  | Prof. Mehmet CINCIK |
| Biological Basis of Disease-I Subject Committee | Assist. Prof. Zeynep AKBULUT |

| **Instructors**Prof. Barış ÇAKIR, Prof. Abdullah HAHOLU, Prof. Canan KÜLAH, Prof. A. Çağlar ÖĞÜTMAN, Prof. Necla ÖZTÜRK, Prof. M. Erinç SİTAR, Assoc. Prof. Yaprak DÖNMEZ ÇAKIL, Assoc. Prof. Pınar EKER, Assist. Prof. Esra M. AYDOĞMUŞ, Assist. Prof. Uğur Baran KASIRGA, Assist. Prof. Nesrin ÖZCANLI. Assist.Prof. Tuğba GÜMÜŞTAŞ |
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| **GENERAL OBJECTIVE AND CATEGORY OF THE COURSE** |
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| Provide knowledge about the structure and functions of tissues, organs and systems, their interactions with each other, their functional abnormalities and disease causing microorganisms.

| **COURSE CATEGORY** |
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| 1. Basic vocational course
 | **X** |
| 1. Specialization / Field Course
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| 1. Support lectures
 |  |
| 1. Transferable skill courses
 |  |
| 1. Humanities, Communication and Management skill courses
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| **COURSE LEARNING OUTCOMES, SUB-SKILLS and COMPETENCIES** |
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| **Sequence No.** | **Learning Output / Sub - Skills / Competencies** | **Education method** | **MR Method** |
| --- | --- | --- | --- |
| **1** | Describe important structures in the organs of the body and their neighborhood relations, | EM1, EM3 | ME1, ME2 |
| **2** | Explain the general structure and function of tissues and cells in the human body,  | EM1, EM3 | ME1, ME2 |
| **3** | Explain microscopic structures, features and development of tissues in the human body, | EM1, EM3 | ME1, ME2 |
| **4** | Describe the basic working principles of the tissues and organs, | EM1, EM3 | ME1, ME2 |
| **5** | Explain the basic features of chemical substances in the body, | EM1, EM3 | ME1, ME2 |
| **6** | Explain the biochemical mechanisms in the body, | EM1, EM3 | ME1, ME2 |
| **7** | List the general characteristics of bacteria, viruses, fungi and protozoa that could be effective in the human body and diseases they cause as well as substances used in treatment; and list diagnostic laboratory methods, | EM1, EM3 | ME1, ME2 |
| **8** | Describe the mechanisms how the microorganisms cause diseases in the body, | EM1, EM3 | ME1, ME2 |
| **9** | Explain the immune response mechanisms against microorganisms in the body, | EM1, EM3 | ME1, ME2 |
| **10** | Describe how the drugs are used and the pathways that they are effective, | EM1, EM3 | ME1, ME2 |
| **11** | Describe the embryological development and histological structures of the immune system components,  | EM1, EM3 | ME1, ME2 |
| **12** | Summarize the role of biochemical mechanisms in diseases. | EM1, EM3 | ME1, ME2 |

**Students completing this course will be able to;** |

| **GENERAL COMPETENCIES:** |
| --- |
| 1. Productive
2. Rational
3. Creative
4. Ethical
5. Respectful to differences
6. Sensitive to social issues
7. able to use own language effectively
8. Sensitive to environment
9. Able to use a foreign language effectively
10. Able to adapt to different social roles in various situations
11. Able to work as a team member
12. Able to use time effectively
13. Having a critical mind
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| **COURSE CONTENTS** |
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| **Committee 1: Nervous System Subject Committee**1. Neuroanatomy, classification of the nervous system anatomy and localization of the nervous system
2. Conduction of electrotonic and action potential, integration of information
3. Describing vision and hearing by using the concepts of physics
4. Basis of EEG
5. Fine structures of the organs of the central and autonomic nervous system and relationship between their structers and functions
6. Brainstem and cerebellum, higher functions of the nervous system, sleep and vigilence
7. Sensory system (tactile senses, deep sense, pain and heat sensation) and special senses (sense of sight, sense of hearing, sense of taste, olfaction) in terms of morphology and function.

**Committee 2: Blood, Circulation and Respiratory System Subject Committee**1. Structural components of the cardiovascular system and their relationship with each other
2. Structure, position and localization of the heart, diaphragma, lower and upper systems and their relationship with each other
3. Development and morphological structures of the heart,
4. Electrical activity of heart, basic physical principles of electrocardiography (ECG), dipole moment of heart, work done by heart
5. Functions of the vascular system
6. Hemodynamics, blood flow, blood pressure, laminar and turbulent flow, vascular resistance
7. Blood pressure control systems
8. Lymphoid system and its development
9. Formation of blood cells, components of the blood, importance of hemoglobin in terms of oxygen and carbon dioxide transportation, activation of coagulation cascade in response to bleeding
10. Importance of cells in immune defense, the structure and functions of the antibodies, antigens, cytokines and complement system as well as the maturation and activation of B and T lymphocytes
11. Dynamics of respiratory system

**Committee 3: Digestive System and Metabolism Course*** 1. Anatomy of organs in the digestive system
	2. Morphological structures, functions and development of the gastrointestinal organs.
	3. Digestion, absorption and transportation activities of the gastrointestinal system and the related nutritional functions
	4. Nutritional metabolism and detoxification of toxic materials of the body
	5. Relations between biological systems and the energy transfer by using thermodynamic concepts, rules and principles and relation between biological system and external world in terms of thermodynamics
	6. Characteristic features and structures of the bacteria located in the gastrointestinal tract, their biochemical characteristics, and characteristics of the viruses associated with the gastrointestinal system.

**Committee 4: Endocrine and Urogenital Subject Committee**1. Glomerular filtration, clearance and urination (voiding) as functions of the excretory system
2. Explaining the structures of hormones and endocrine glands associated with hormone
3. mechanisms as well as the main features of hormone synthesis
4. Describing the classification and localization of the reproductive system
5. Structure, function and development of male and female genital systems
6. General features of the localization of fungi, protozoa and helminths
7. Diseases caused by fungi, protozoa and helminths.

**Committee 5: Biological Basis of Disease I Subject Committee**1. Basic concepts of pathology and physiopathology and the mechanisms of disease formation
2. Action mechanisms of drugs, pharmacokinetic and pharmacodynamic drug interactions
3. Infectious disease generating mechanisms of microorganisms and immunological mechanisms
4. Basic concepts of pathology and physiopathology during tissue damage and formation mechanisms of diseases
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| **COURSE TEXTBOOKS AND SUPPLEMENTARY READINGS** |
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| **Textbooks:*** Faculty members lecture notes,
* Guyton Tıbbi Fizyoloji,
* Ganong-Tıbbi Fizyoloji,
* Berne Levy Fizyoloji,
* Vander İnsan Fizyolojisi,
* Physiology, Schoenwolf G, Bleyl S, Brauer P., Francis-West Phillipa:
* Larsen’s Human Embryology, Larsen J.William:
* Human Embryology, Churchill Livingstone, Moore and Persaud:
* The Developing Human Clinically Oriented Embryology, 5th.W.B. Sunders Company, Cochard L.
* Netter’s Atlas of Human Embryology, Icon Learning Systems,
* Junqueira's Basic Histology: Text and Atlas, Fourteenth Edition by Anthony Mescher (Textbook)
* Di Fiore's Atlas of Histology with Functional Correlations by Victor P. Eroschenko (Atlas)
* Histology: a Text and Atlas by Wojciech Pawlina; Michael H. Ross (Textbook)
* The Developing Human - Clinically Oriented Embryology by Keith L. Moore, T. V. N. Persaud, Mark G. Torchia (Textbook)
* Human Embryology and Developmental Biology by Bruce M. Carlson (Textbook)
* Kliniğe Yönelik Anatomi Fonksiyonel Anatomi Baş-Boyun ve İç Organlar,
* Tıp Fakültesi Öğrencileri İçin Klinik Anatomi,
* Murray R.K., Granner D.K., Mayes P.T., Rodwell V.W. Harper’s Biochemistry, Prentice-Hall
* Biyofizik Prof. Dr. Ferit Pehlivan.
* Foundations of Cellular Neurophysiology by Daniel Johnston and Samuel Miao-Sin Wu;
* Carroll, K. C., Butel, J. S., & Morse, S. A. (2015). Jawetz Melnick & Adelbergs Medical Microbiology 27 E. McGraw Hill Professional. LANGE
* Riedel, S., Morse, S., Mietzner, T., Miller S., (Author) (2019). Jawetz Melnick & Adelbergs Medical Microbiology 28 E. McGraw Hill Professional. LANGE
* Tile Patricia (2013). Bailey & Scott’s Diagnostic Microbiology, 13th Edition
* Madigan, M. T., Bender K. S. , Buckley, D. H., Sattley, W. M., Stahl, D. A. (2018). Brock biology of microorganisms. 15th edition
* Murray, P. R., Rosenthal, K. S., & Pfaller, M. A. (2015). *Medical microbiology*. Elsevier Health Sciences.

**Futher Reading:**PDQ Fizyoloji, Hücre Elektrofizyolojisi ve Görüntülemenin Temelleri, Guyton Tıbbi Fizyoloji, GanongTıbbi Fizyoloji, Berne Levy Fizyoloji, Vander İnsan Fizyolojisi, Physiology, The Developing Human Clinically Oriented Embryology, Miller’s Anesthesia, Klinik Anesteziyoloji, Handbook of Clincal Anesthesia, Biyokimya, İnsan Biyokimyası, Manual of Clinical Microbiology, Tıp Fakültesi Öğrencileri İçin Klinik Anatomi |

| **COURSE ASSESSMENT AND EVALUATION SYSTEM** |
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| **No.** | **Examination** | **Percent Contribution**  |
| --- | --- | --- |
| 1 | Average of the Subject Committee Examinations | %60 |
| 2 | Final Examination / Make-up Examination | %40 |

Assessment and Evaluation System is organized according to T.C. Maltepe University Faculty of Medicine Education and Training Regulations. |

| **ECTS STUDENT WORKLOAD TABLE** |
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| **Activities** | **Number** | **Duration****(hours)** | **Total work load** |
| --- | --- | --- | --- |
| Lectures | 490 | 1 | 490 |
| Laboratory | 126 | 1 | 126 |
| Practice | - | - | - |
| Lesson specific internship (if there is)  | - | - | - |
| Field study | - | - | - |
| Out of class lesson study time (pre work, strengthen, etc) | 35 | 7 | 280 |
| Presentation / Preparing seminar | - | - | - |
| Project | - | - | - |
| Homework | - |  |  |
| İnterval examinations | 5 | 25 | 125 |
| Clerkship Examination  | 1 | 100 | 100 |
| **Total work load**  | **1121** |

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| **RELATIONSHIP BETWEEN PHASE II OCCUPATIONAL LECTURE COURSE LEARNING OUTCOMES AND MEDICAL EDUCATION PROGRAMME KEY LEARNING OUTCOMES** |
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| **No** | **Program Competencies/ Outcomes** | **Level of Contribution[[1]](#footnote-0)\*** |
| --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** |
| **1** | Able to explain the normal structure and functions of the organism. |  |  |  |  | **X** |
| **2** | Able to explain the pathogenesis, clinical and diagnostic features of psychiatric disorders |  | **X** |  |  |  |
| **3** | Able to take history and perform mental status examination. | **X** |  |  |  |  |
| **4** | Able to perform first step interventions and refer and transfer cases in life threatening emergency situations. | **X** |  |  |  |  |
| **5** | Able to perform necessary basic medical interventions for the diahnosis and treatment of mental | **X** |  |  |  |  |
| **6** | Able to perform preventive measures and forensic practices. |  | **X** |  |  |  |
| **7** | Having sufficient knowledge about the structure and process of the National Health System. |  | **X** |  |  |  |
| **8** | Able to define legal responsibilities and ethical principles.  |  | **X** |  |  |  |
| **9** | Able to perform first step care of most prevalent disorders in the community with effective evidence based medical methods. | **X** |  |  |  |  |
| **10** | Able to organize and implement scientific meetings and projects  | **X** |  |  |  |  |
| **11** | Able to use a major foreign language sufficient enough for follow up of literature and update of medical knowledge; able to use computer and statistical skills for the evaluation of scientific studies.  |  |  |  | **X** |  |

\*1 lowest, 2 low, 3 fair, 4 high, 5 highest. |

| **PHASE II OCCUPATIONAL LECTURE COURSE LIST AND RANKING**  |
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| **Committee 1: Nervous System Subject Committee**

| **No.** | **Lecture/Competence** | **Instructor** |
| --- | --- | --- |
| 1 | Introduction to Nervous System and Central Nervous System (Teorik: 1 Saat) | Uğur Baran Kasırga |
| 2 | Meninges, Cysterna subarachnoidalis, ventricles, CSF (Teorik: 3 Saat) | Uğur Baran Kasırga |
| 3 | Dura mater, sinuses (Teorik: 1 Saat) | Uğur Baran Kasırga |
| 4 | P.N.S. - Plexuses (Teorik: 1 Saat) | Uğur Baran Kasırga |
| 5 | P.S.S. - Cranial Nerves (Teorik: 5 Saat) | Uğur Baran Kasırga |
| 6 | P.S.S. - Autonomic Nervous System (Teorik: 2 Saat) | Uğur Baran Kasırga |
| 7 | Central Nervus System - Spinal Cord (Teorik: 5 Saat) | Uğur Baran Kasırga |
| 8 | Brain Stem (Teorik: 2 Saat) | Uğur Baran Kasırga |
| 9 | Cerebellum (Teorik: 4 Saat) | Uğur Baran Kasırga |
| 10 | Diencephalon (Teorik: 2 Saat) | Uğur Baran Kasırga |
| 11 | Limbic system (Teorik: 3 Saat) | Uğur Baran Kasırga |
| 12 | Telencephalon (Teorik: 1 Saat) | Uğur Baran Kasırga |
| 13 | Basal ganglia (Teorik: 3 Saat) | Uğur Baran Kasırga |
| 14 | Vessels of the Central Nervous System (Teorik: 2 Saat) | Uğur Baran Kasırga |
| 15 | The Ear (Teorik: 2 Saat) | Uğur Baran Kasırga |
| 16 | The Eyeball, The visual pathways (Teorik: 1 Saat) | Uğur Baran Kasırga |
| 17 | Passive Conduction in Nerves (Teorik: 3 Saat) | Necla Öztürk  |
| 18 | Biophysical Characteristics of Sensory Receptors (Teorik: 2 Saat) | Necla Öztürk  |
| 19 | Biophysical Basis of Electroensaphalografy (Teorik: 2 Saat) | Necla Öztürk |
| 20 | Biophysics of Vision (Teorik: 3 Saat) | Necla Öztürk  |
| 21 | Biophysics of Hearing (Teorik: 3 Saat) | Necla Öztürk  |
| 22 | Development of Eye (Teorik: 1 Saat) | Yaprak Dönmez Çakıl |
| 23 | Development of Ear (Teorik: 1 Saat) | Yaprak Dönmez Çakıl |
| 24 | Histology of Ear (Teorik: 2 Saat) | Yaprak Dönmez Çakıl |
| 25 | The mechanism of bacterial pathogenesis (Teorik: 1 Saat) | Canan Külah |
| 26 | Laboratory diagnosis of bacterial pathogens (Teorik: 1 Saat) | Canan Külah n |
| 27 | Staphylococcus (Teorik: 2 Saat) | Canan Külah |
| 28 | Streptococcus (Teorik: 2 Saat) | Canan Külah  |
| 29 | Enterococcus and other Gram-positive cocci (Teorik: 1 Saat) | Canan Külah |
| 30 | Aerobic non spore-forming bacilli (Teorik: 2 Saat) | Canan Külah |
| 31 | Gram-negative cocci (Teorik: 1 Saat) | Canan Külah |
| 32 | Mycoplasma and Ureaplasma (Teorik: 1 Saat) | Canan Külah |
| 33 | Actinomycetes, Nocardia, Rhodococcus (Teorik: 1 Saat) | Canan Külah |
| 34 | Mycobacteria and lepra (Teorik: 2 Saat) | Canan Külah |
| 35 | Spirochetes (Teorik: 1 Saat) | Canan Külah |
| 36 | Rickettsia and Coxiella (Teorik: 1 Saat) | Canan Külah |
| 37 | Chlamydia and Chlamydophila (Teorik: 2 Saat) | Canan Külah |
| 38 | Cerebral cortex and higher functions of the nervous system, learning and memory (Teorik: 2 Saat) | Barış Çakır |
| 39 | Thalamus Functions (Teorik: 1 Saat) | Barış Çakır |
| 40 | Physiology of Hearing (Teorik: 2 Saat) | Barış Çakır |
| 41 | Cerebrospinal fluid (Teorik: 2 Saat) | Barış Çakır |
| 42 | Physiology of Vision (Teorik: 2 Saat) | Barış Çakır |
| 43 | Sense of taste and smell (Teorik: 1 Saat) | Barış Çakır |
| 44 | Phsyiology of Sleep (Teorik: 2 Saat) | Barış Çakır |
| 45 | EEG (Teorik: 2 Saat) | Barış Çakır |
| 46 | Histology of Nervous System (Teorik: 3 Saat) | Yaprak Dönmez Çakıl |
| 47 | Sensory cortex (Teorik: 2 Saat) | Barış Çakır |
| 48 | Motor cortex and pyramidal system (Teorik: 2 Saat) | Barış Çakır |
| 49 | Development of Nervous System (Teorik: 2 Saat) | Yaprak Dönmez Çakıl  |
| 50 | Histology of Eye (Teorik: 2 Saat) | Yaprak Dönmez Çakıl |
| 51 | ANATOMY LAB: Meninges, ventricules and sinuses 1 (Pratik: 1 Saat) | Betül Aslan |
| 52 | ANATOMY LAB: Meninges, ventricules and sinuses 2 (Pratik: 1 Saat) | Betül Aslan |
| 53 | PHYSIOLOGY LAB: learning and memory 1 (Pratik: 2 Saat) | Barış Çakır |
| 54 | PHYSIOLOGY LAB: learning and memory 2 (Pratik: 2 Saat) | Barış Çakır |
| 55 | PHYSIOLOGY LAB: Sensory, Vision 1 (Pratik: 1 Saat) | Barış Çakır |
| 56 | PHYSIOLOGY LAB: Sensory, Vision 2 (Pratik: 1 Saat) | Barış Çakır |
| 57 | ANATOMY LAB: Spinal Cord 1 (Pratik: 1 Saat) | Betül Aslan |
| 58 | ANATOMY LAB: Spinal Cord 2 (Pratik: 1 Saat) | Betül Aslan |
| 59 | HISTOLOGY LAB: Nervous System 2 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 60 | HISTOLOGY LAB: Nervous System 1 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 61 | MICROBIOLOGY LAB: Gram Positive Cocci 1 (Pratik: 2 Saat) | Canan Külah |
| 62 | MICROBIOLOGY LAB: Gram Positive Cocci 2 (Pratik: 2 Saat) | Canan Külah |
| 63 | ANATOMY LAB: Brain Stem, Cranial Nerves 1 (Pratik: 1 Saat) | Betül Aslan |
| 64 | ANATOMY LAB: Brain Stem, Cranial Nerves 2 (Pratik: 1 Saat) | Betül Aslan |
| 65 | HISTOLOGY LAB: Nervous System and Senses 1 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 66 | HISTOLOGY LAB: Nervous System and Senses 2 (Pratik: 1 Saat) | Sevtap Gökalp  |
| 67 | MICROBIOLOGY LAB: Gram Positive Rods-Gram Negative Cocci 1 (Pratik: 1 Saat) | Canan Külah |
| 68 | MICROBIOLOGY LAB: Gram Positive Rods-Gram Negative Cocci 2 (Pratik: 1 Saat) | Canan Külah |
| 69 | MICROBIOLOGY LAB: Mycobacteria 1 (Pratik: 1 Saat) | Canan Külah |
| 70 | MICROBIOLOGY LAB: Mycobacteria 2 (Pratik: 1 Saat) | Canan Külah |
| 71 | PHYSIOLOGY LAB: EEG 1 (Pratik: 1 Saat) | Barış Çakır |
| 72 | PHYSIOLOGY LAB: EEG 2 (Pratik: 1 Saat) | Barış Çakır |
| 73 | ANATOMY LAB: Cortex cerebri, Cerebellum, Hypothalamus, Thalamus, Basal Ganglia 1 (Pratik: 1 Saat) | Betül Aslan |
| 74 | ANATOMY LAB: Cortex cerebri, Cerebellum, Hypothalamus, Thalamus, Basal Ganglia 2 (Pratik: 1 Saat) | Betül Aslan |
| 75 | ANATOMY LAB: Central Nervous System Vessel 1 (Pratik: 1 Saat) | Betül Aslan |
| 76 | ANATOMY LAB: Central Nervous System Vessel 2 (Pratik: 1 Saat) | Betül Aslan |
| 77 | ANATOMY LAB:The Ear 1 (Pratik: 1 Saat) | Betül Aslan |
| 78 | ANATOMY LAB:The Ear 2 (Pratik: 1 Saat) | Betül Aslan |
| 79 | ANATOMY LAB: The Eye ball and Visual Pathways 1 (Pratik: 1 Saat) | Betül Aslan |
| 80 | ANATOMY LAB: The Eye ball and Visual Pathways 2 (Pratik: 1 Saat) | Betül Aslan |
| 81 | Spinal Reflexes (Teorik: 2 Saat) | Barış Çakır |
| 83 | PHYSIOLOGY LAB: Nervous System and Reflexes. Group 1 (Pratik: 1 Saat) | Barış Çakır |
| 84 | PHYSIOLOGY LAB: Nervous System and Reflexes. Group 2 (Pratik: 1 Saat) | Barış Çakır |

**Committee 2: Blood, Circulation and Respiratory System Subject Committee**

|  No | **Lecture/Competence** | **Instructor** |
| --- | --- | --- |
| 1 | Blood Biochemistry (Theoretical 2 Lessons) | M. Erinç Sitar |
| 2 | Bioelectrical Processes In The Heart (Theoretical 2 Lessons) | Necla Öztürk |
| 3 | Heme Proteins (Theoretical 2 Lessons) | M. Erinç Sitar |
| 4 | Functions And Physical Properties Of Blood (Theoretical 2 Lessons) | Barıs Cakır |
| 5 | Production And Regulation Of Blood (Theoretical 2 Lessons) | Barıs Cakır |
| 6 | Structure And Functions Of Hemoglobine (Theoretical 2 Lessons) | M. Erinç Sitar |
| 7 | General Properties Of Enterobacteriaceae (Theoretical 1 Lessons) | Canan Kulah |
| 8 | Escherichia Coli (Theoretical 2 Lessons) | Canan Kulah |
| 9 | 1- Anatomy Of Nose  | Ugur Baran Kasırga |
| 10 | 2- Larynx (Theoretical 2 Lessons) | Ugur Baran Kasırga |
| 11 | Klebsiella, Proteus And Yersinia (Theoretical 2 Lessons) | 1. Yaman
 |
| 12 | Salmonella And Shigella (Theoretical 2 Lessons) | Canan Kulah |
| 13 | Physiological Properties Of Erythrocytes (Theoretical 2 Lessons) | Barıs Cakır |
| 14 | Structure And Metabolism Of Erythrocytes (Theoretical 2 Lessons) | M. Erinç Sitar |
| 15 | 3- Trachea, Pericard, Lungs | Ugur Baran Kasırga |
| 16 | 4- Thoracic Wall And Mediastinum (Theoretical 2 Lessons) | Ugur Baran Kasırga |
| 17 | 5- Heart, Pericard (Theoretical 2 Lessons) | Ugur Baran Kasırga |
| 18 | 6- Diaphragm | Ugur Baran Kasırga |
| 19 | Blood Groups And Transfusion (Theoretical 2 Lessons) | Barıs Cakır |
| 20 | Blood Coagulation And Fibrinolysis (Theoretical 2 Lessons) | M. Erinç Sitar |
| 21 | Blood (Theoretical 1 Lessons) | Yaprak Donmez Cakıl |
| 22 | Functions Of Leucocytes (Theoretical 2 Lessons) | Barıs Cakır |
| 23 | Biochemistry Of Anemia (Theoretical 3 Lessons) | M. Erinç Sitar |
| 24 | 7- Aorta (Ascending, Arch, Thoracic) | Ugur Baran Kasırga |
| 25 | Salmonella And Shigella (Theoretical 2 Lessons) | Canan Kulah |
| 26 | Biophysical Basis Of Electrocardiography (Theoretical 2 Lessons) | Necla Öztürk |
| 27 | Functions Of Thrombocytes And Coagulation (Theoretical 2 Lessons) | Barıs Cakır |
| 28 | Regulation Of Respiration (Theoretical 2 Lessons) | Barıs Cakır |
| 29 | Biochemistry Of Vascular Phenomena (Theoretical 1 Lessons) | M. Erinç Sitar |
| 30 | Cardiac Muscle Metabolism (Theoretical 1 Lessons) | M. Erinç Sitar |
| 31 | Basic Principles Of Hemodynamics (Theoretical 3 Lessons) | Necla Öztürk |
| 32 | Physiological Control Systems (Theoretical 3 Lessons) | Necla Öztürk |
| 33 | Hematopoiesis (Theoretical 1 Lessons) | Yaprak Donmez Cakıl |
| 34 | Histology Of The Heart (Theoretical 1 Lessons) | Yaprak Donmez Cakıl |
| 35 | Francisella – Legionella (Theoretical 1 Lessons) | Canan Kulah |
| 36 | Vibrio (Theoretical 1 Lessons) | Canan Kulah |
| 37 | 8- Abdominal Aorta  | Ugur Baran Kasırga |
| 38 | Transport Of Gases In The Blood (Theoretical 2 Lessons) | Barıs Cakır |
| 40 | Physiologic Properties Of Cardiac Muscle (Theoretical 2 Lessons) | Barıs Cakır |
| 41 | Regulation Of Heart Functions (Theoretical 1 Lessons) | Barıs Cakır |
| 42 | Blood Pressure (Theoretical 2 Lessons) | Barıs Cakır |
| 43 | Ecg (Theoretical 2 Lessons) | Barıs Cakır |
| 44 | 9- Arteries Of Upper Limb | Ugur Baran Kasırga |
| 45 | 10- Arteries Of Lower Limb | Ugur Baran Kasırga |
| 46 | 11- Veins (Theoretical 2 Lessons) | Ugur Baran Kasırga |
| 47 | 12- Lymphatic System | Ugur Baran Kasırga |
| 48 | Histological Features Of Vessels (Theoretical 2 Lessons) | Yaprak Donmez Cakıl |
| 49 | Cardiac Valve Functions And Heart Sounds (Theoretical 2 Lessons) | Barıs Cakır |
| 50 | Bordetella (Theoretical 1 Lessons) | Canan Kulah |
| 51 | Development Of The Heart &Vessels (Theoretical 1 Lessons) | Yaprak Donmez Cakıl |
| 52 | Fetal Circulation (Theoretical 1 Lessons) | Yaprak Donmez Cakıl |
| 53 | Immune System (Theoretical 2 Lessons) | Yaprak Donmez Cakıl |
| 54 | Pathophysiology Of Circulatory System (Theoretical 2 Lessons) | Barıs Cakır |
| 55 | Ventilation / Perfusion Relationship (Theoretical 4 Lessons) | Barıs Cakır |
| 56 | Introduction To Respiratory Physiology (Theoretical 1 Lessons) | Barıs Cakır |
| 57 | Histology Of Lymphoid System (Theoretical 1 Lessons) | Yaprak Donmez Cakıl |
| 58 | Blood Pressure Control System (Theoretical 1 Lessons) | Necla Öztürk |
| 59 | Physiological Control Systems (Theoretical 3 Lessons) | Necla Öztürk |
| 60 | Dynamics Of Respiratory System (Theoretical 2 Lessons) | Esra. M. Aydoğmuş |
| 61 | Haemophilus (Theoretical 1 Lessons) | Canan Kulah |
| 62 | Ventilation / Perfusion Relationship (Theoretical 3 Lessons) | Barıs Cakır |
| 63 | Campylobacter And Helicobacter (Theoretical 1 Lessons) | Canan Kulah |
| 64 | Pseudomonas And Other Non-Fermentatives  (Theoretical 1 Lessons) | Canan Külah |
| 65 | Brucella (Theoretical 1 Lessons) | Canan Kulah |
| 66 | Anaerobic Bacteria (Theoretical 2 Lessons) | Canan Kulah |
| 67 | Clostridiaceae (Theoretical 1 Lessons) | Canan Kulah |
| 68 | Histology Of Respiratory System (Theoretical 2 Lessons) | Yaprak Donmez Cakıl |
| 69 | Development Of Respiratory System (Theoretical 1 Lessons) | Yaprak Donmez Cakıl |
| 70 | Physiology Lab: Blood Groups And Bleeding Time (Practical 2 Lessons) | P-Lab |
| 71 | Anatomy Lab: Nasal Cavities, Larynx. (Practical 2 Lessons) | A-Lab |
| 72 | Physiology Lab: Blood Count. Group (Practical 2 Lessons) | P-Lab |
| 73 | Microbiology Lab: Gram-Negative Rods (Canan Kulah) (Practical 3 Lessons) | M-Lab |
| 74 | Anatomy Lab: Heart,Pericard, Diaphragm (Practical 2 Lessons) | A-Lab |
| 75 | Physiology Lab: Blood Pressure And Pulse, Heart Sounds (Practical 2 Lessons)  | P-Lab |
| 76 | Biochemistry Lab: Blood Biochemistry (E. Sitar) (Practical 2 Lessons) | B-Lab |
| 77 | Histology Lab: Blood, Vessels And Heart (Practical 2 Lessons) | H-Lab |
| 78 | Physiology Lab: Ecg (Practical 2 Lessons) | P-Lab |
| 79 | Histology Lab: Respiratory System (Practical 2 Lessons) | P-Lab |
| 80 | Histology Lab: Lenfoid System (Practical 2 Lessons) | H-Lab |
| 81 | Physiology Lab: Respiratory Function Tests (Practical 2 Lessons) | P-Lab |

**Committee 3: Digestive System and Metabolism Course**

| **No.** | **Lecture/Competence** | **Instructor** |
| --- | --- | --- |
| 1 | [Oral Cavity](https://keypstipen.maltepe.edu.tr/n/belirtke-tablosu/459)(Theoretical 1 Lessons) | Uğur Baran Kasırga |
| 2 | Salivary Glands, Teeth (Theoretical 1 Lessons) | Uğur Baran Kasırga |
| 3 | Pharynx, Esophagus (Theoretical 1 Lessons) | Uğur Baran Kasırga |
| 4 | Muscles Of Posterior Abdominal Region (Theoretical 1 Lessons) | Uğur Baran Kasırga |
| 5 | Anterolateral Group Of Abdominal Wall Muscles, Inguinal Canali Femoral Canal, Hernias (Theoretical 3 Lessons) | Uğur Baran Kasırga |
| 6 | Pancreas, Spleen (Theoretical 1 Lessons) | Uğur Baran Kasırga |
| 7 | Liver, Gallbladder And Biliary Ducts (Theoretical 1 Lessons) | Uğur Baran Kasırga |
| 8 | Stomach (Theoretical 1 Lessons) | Uğur Baran Kasırga |
| 9 | Small And Large Intestine (Theoretical 2 Lessons) | Uğur Baran Kasırga |
| 10 | Peritoneum (Theoretical 2 Lessons) | Uğur Baran Kasırga |
| 11 | Carbohydrate Metabolism (Theoretical 2 Lessons) | M. Erinç Sitar |
| 12 | Lipids And Lipoprotein Metabolism (Theoretical 4 Lessons) | M. Erinç Sitar |
| 13 | Introduction To Amino Acids Metabolism (Theoretical 1 Lessons) | M. Erinç Sitar |
| 14 | Biological Amines And Endogen Amino Acids (Theoretical 1 Lessons) | M. Erinç Sitar |
| 15 | Nutrition Biochemistry, Energy And Activity(Theoretical 2 Lessons) | M. Erinç Sitar |
| 16 | Ammonia Metabolism (Theoretical 2 Lessons) | M. Erinç Sitar |
| 17 | Special Metabolic Pathways Of Amino Acids (Theoretical 2 Lessons) | M. Erinç Sitar |
| 18 | Metabolism Of Nucleotides (Theoretical 2 Lessons) | M. Erinç Sitar |
| 19 | Physiological Buffering Systems (Theoretical 2 Lessons) | M. Erinç Sitar |
| 20 | Catabolism Of Carbon Skleton Of Amino Acids (Theoretical 1 Lessons) | M. Erinç Sitar |
| 21 | Metabolsim Of Inorganics (Theoretical 3 Lessons) | M. Erinç Sitar |
| 22 | Poprhyrins And Bile Pigments (Theoretical 2 Lessons) | M. Erinç Sitar |
| 23 | Biochemical Importance Of Vitamins (Theoretical 2 Lessons) | M. Erinç Sitar |
| 24 | Digestion And Absorption Of Nutrients (Theoretical1 Lessons) | M. Erinç Sitar |
| 25 | Metabolism Of Alcohol And Detoxification Mechanisms (Theoretical 1 Lessons) | M. Erinç Sitar |
| 26 | Histology Of Upper Digestive System (Theoretical 2 Lessons) | Yaprak Dönmez Çakıl |
| 27 | Development Of Digestive System (Theoretical 2 Lessons) | Yaprak Dönmez Çakıl |
| 28 | Gastrointestinal System Associated Glands (Theoretical 2 Lessons) | Yaprak Dönmez Çakıl |
| 29 | Herpesviruses (Theoretical 2 Lessons) | Canan Külah |
| 30 | Poxviruses And Picornaviruses (Theoretical 2 Lessons) | Canan Külah |
| 31 | The Mechanism Of Viral Pathogenesis (Theoretical 1 Lessons) | Canan Külah  |
| 32 | Parvoviruses - Reovirus (Theoretical 1 Lessons) | Canan Külah |
| 33 | Papovaviruses (Theoretical 1 Lessons) | Canan Külah |
| 34 | Orthomyxoviruses (Theoretical 2 Lessons) | Canan Külah |
| 35 | Paramyxoviruses (Theoretical 1 Lessons) | Canan Külah |
| 36 | Adenoviruses (Theoretical 1 Lessons) | Canan Külah |
| 37 | Coronaviruses And Noroviruses (Theoretical 2 Lessons) | Canan Külah |
| 38 | Retroviruses And Hiv (Theoretical 1 Lessons) | Canan Külah |
| 39 | Hepatitis Viruses (Theoretical 2 Lessons) | Canan Külah |
| 40 | Rhabdoviruses (Theoretical 1 Lessons) | Canan Külah |
| 41 | Togaviruses, Flaviviruses, Bunyaviruses (Teorik: 1 Saat) | Canan Külah |
| 42 | Slow Virus Infections And Prions (Theoretical 1 Lessons) | Canan Külah |
| 43 | Introduction To Physiology Of Digestion, Oral Digestion And Deglutition (Theoretical 2 Lessons) | Barış Çakır |
| 44 | Gastric Digestion (Theoretical 2 Lessons) | Barış Çakır |
| 45 | Digestion In Small And Large Intestines (Theoretical 1 Lessons) | Barış Çakır |
| 46 | Exocrine Function Of The Pancreas (Theoretical 2 Lessons) | Barış Çakır |
| 47 | Function Of The Liver And The Role Of Bile In Digestion (Teorik: 2 Saat) | Barış Çakır |
| 48 | Gastrointestinal Hormones (Theoretical 2 Lessons) | Barış Çakır |
| 49 | Gastric And Intestinal Tract Absorption (Theoretical 1 Lessons) | Barış Çakır |
| 50 | Body Temperature Regulation (Theoretical 1 Lessons) | Barış Çakır |
| 51 | Basal Metabolic Rate, Balanced Diet, Hunger, Satiety (Theoretical 1 Lessons) | Barış Çakır |
| 52 | Anatomy Lab: Oral Cavity, Salivary Glands, Pharynx, Oesaphagus Group 1 (Pratik: 1 Saat) | Betül Aslan, Uğur Baran Kasırga |
| 53 | Anatomy Lab: Oral Cavity, Salivary Glands, Pharynx, Oesaphagus Group 2 (Pratik: 1 Saat) | Betül Aslan |
| 54 | Anatomy Lab: Stomach, Small And Large Intestine Group 1 (Pratik: 1 Saat) | Betül Aslan, Uğur Baran Kasırga |
| 55 | Anatomy Lab: Stomach, Small And Large Intestine Group 2 (Pratik: 1 Saat) | Betül Aslan |
| 56 | Anatomy Lab: Peritoneum, Anterolateral And Posterior Abdominal Wall Muscles Group 1 (Pratik: 1 Saat) | Betül Aslan, Uğur Baran Kasırga |
| 57 | Anatomy Lab: Peritoneum, Anterolateral And Posterior Abdominal Wall Muscles Group 2 (Pratik: 1 Saat) | Betül Aslan |
| 58 | Histology Of Lower Digestive System (Theoretical 2 Lessons) | Yaprak Dönmez Çakıl |
| 59 | Anatomy Lab: Pancreas, Spleen, Liver, Gallbladder And Biliary Ducts Group 1 (Pratik: 1 Saat) | Betül Aslan, Uğur Baran Kasırga |
| 60 | Anatomy Lab: Pancreas, Spleen, Liver, Gallbladder And Biliary Ducts Group 2 (Pratik: 1 Saat) | Betül Aslan |
| 61 | Histology Lab: Upper Digestive System. Group 1 (Pratik: 2 Saat) | Sevtap Gökalp, Yaprak Dönmez Çakıl  |
| 62 | Histology Lab: Upper Digestive System. Group 2 (Pratik: 2 Saat) | Sevtap Gökalp, Yaprak Dönmez Çakıl  |
| 63 | Biochemistry Lab: Digestive Enzymes. Group 1 (Pratik: 2 Saat) | Nesrin Özcanlı |
| 64 | Biochemistry Lab: Digestive Enzymes. Group 2 (Pratik: 2 Saat) | Nesrin Özcanlı |
| 65 | Development Of Gastrointestinal Glands (Teorik: 2 Saat) | Yaprak Dönmez Çakıl |
| 66 | Physiology Lab: Protein, Carbohydrate And Fat Digestion Group 1 (Pratik: 1 Saat) | Barış Çakır |
| 67 | Physiology Lab: Protein, Carbohydrate And Fat Digestion Group 2 (Pratik: 1 Saat) | Barış Çakır |
| 68 | Physiology Lab: Rat Cuts. Group 1 (Pratik: 1 Saat) | Barış Çakır  |
| 79 | Physiology Lab: Rat Cuts. Group 2 (Pratik: 1 Saat) | Barış Çakır  |
| 70 | Physiology Lab: Rat Cuts. Group 2 (Pratik: 1 Saat) | Barış Çakır |
| 71 | Physiology Lab: Rat Cuts. Group 1 (Pratik: 1 Saat) | Barış Çakır |
| 72 | Viruses And Carcinogenesis (Theoretical 1 Lessons) | Canan Külah |
| 73 | Laboratory Diagnosis Of Viral Infections (Pratik: 1 Saat) | Canan Külah  |
| 74 | Biochemistry Lab: Determination Of Lipids And Cholesterol Levels. Group 1 (Pratik: 2 Saat) | Pinar Eker  |
| 75 | Biochemistry Lab: Determination Of Lipids And Cholesterol Levels. Group 2 (Pratik: 2 Saat) | Pinar Eker  |
| 76 | Histology Lab: Lower Digestive System (Pratik: 2 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp  |
| 77 | Histology Lab: Gastrointestinal System Associated Glands (Pratik: 1 Saat) | Sevtap Gökalp, Yaprak Dönmez Çakıl |
| 79 | Physiology Lab: Rat Cuts (Pratik: 1 Saat) | Barış Çakır |
| 81 | Microbiology Lab: Laboratory Diagnostic Methods For Viruses (Pratik: 2 Saat) | Canan Külah |
| 82 | Biochemistry Lab: Digestive Enzymes (Pratik: 2 Saat) | Nesrin Özcanlı |
| 83 | Biochemistry Lab: Determination Of Lipids And Cholesterol Levels (Pratik: 2 Saat) | Pinar Eker |
| 84 | Physiology Lab: Protein, Carbohydrate And Fat Digestion (Pratik: 1 Saat) | Barış Çakır |
| 85 | Histology Lab: Upper Digestive System (Pratik: 2 Saat) | Sevtap Gökalp, Yaprak Dönmez Çakıl |
| 86 | Anatomy Lab: Oral Cavity, Salivary Glands, Pharynx, Oesaphagus (Pratik: 1 Saat) | Betül Aslan |
| 87 | Anatomy Lab: Stomach, Small And Large Intestine (Pratik: 1 Saat) | Betül Aslan |
| 88 | Anatomy Lab: Peritoneum, Anterolateral And Posterior Abdominal Wall Muscles (Pratik: 1 Saat) | Betül Aslan |
| 89 | Anatomy Lab: Pancreas, Spleen, Liver, Gallbladder And Biliary Ducts (Pratik: 1 Saat) | Betül Aslan |
| 90 | Microbiology Lab: Laboratory Diagnostic Methods For Viruses Group 1 (Pratik: 1 Saat) | Canan Külah |
| 91 | Microbiology Lab: Laboratory Diagnostic Methods For Viruses Group 2 (Pratik: 1 Saat) | Canan Külah |
| 92 | Histology Lab: Lower Digestive System. Group 2 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp  |
| 93 | Histology Lab: Lower Digestive System. Group 1 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp  |
| 94 | Histology Lab: Gastrointestinal System Associated Glands Group 1 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp  |
| 95 | Histology Lab: Gastrointestinal System Associated Glands Group 2 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp  |

**Committee 4: Endocrine and Urogenital Subject Committee**

| No | **Lecture/Competence** | **Instructor** |
| --- | --- | --- |
| 1 | Kidney (Theoretical 2 Lessons) | Uğur Baran Kasırga |
| 2 | Ureter, Urinary Bladder (Theoretical 1 Lessons) | Uğur Baran Kasırga |
| 3 | The Pelvis And Perineum (Theoretical 2 Lessons) | Uğur Baran Kasırga |
| 4 | The Female Genital Organs (Theoretical 1 Lessons) | Uğur Baran Kasırga |
| 5 | Endocrine Glands (Theoretical 1 Lessons) | Uğur Baran Kasırga |
| 6 | Introduction To Hormones I (Theoretical 2 Lessons) | M. Erinç Sitar |
| 7 | Introduction To Hormones II (Theoretical 2 Lessons) | M. Erinç Sitar |
| 8 | Hypothalamic-Pituatury Hormones (Theoretical 2 Lessons) | M. Erinç Sitar |
| 9 | Calcium-Phosphate Metabolic Hormones (Theoretical 2 Lessons) | M. Erinç Sitar |
| 10 | Pancreas Hormones (Theoretical 2 Lessons) | M. Erinç Sitar |
| 11 | Steroid Hormones (Theoretical 3 Lessons) | M. Erinç Sitar  |
| 12 | Catecholamines (Theoretical 1 Lessons) | M. Erinç Sitar |
| 13 | Eicosanoids (Theoretical 1 Lessons) | M. Erinç Sitar |
| 14 | Renin-Angiotensin-Aldosterone System (Theoretical 1 Lessons) | M. Erinç Sitar |
| 15 | Thyroid Hormones (Theoretical 1 Lessons) | M. Erinç Sitar  |
| 16 | Development Of Urinary Tract ( (Theoretical 2 Lessons) | Yaprak Dönmez Çakıl |
| 17 | Histology Of Urinary Tract (Theoretical 2 Lessons) | Yaprak Dönmez Çakıl |
| 18 | Histology Of Female Reproductive System (Theoretical 2 Lessons) | Yaprak Dönmez Çakıl |
| 19 | Histology Of Male Reproductive System (Theoretical 2 Lessons) | Yaprak Dönmez Çakıl |
| 20 | Development Of Endocrine Glands (Teorik: 1 Saat) | Yaprak Dönmez Çakıl |
| 21 | Development Of Reproductive System (Teorik: 2 Saat) | Yaprak Dönmez Çakıl |
| 22 | Histology Of Endocrine System (Theoretical 2 Lessons) | Yaprak Dönmez Çakıl |
| 23 | Superficial Mycoses (Theoretical 2 Lessons) | Canan Külah |
| 24 | Subcutaneous Mycoses (Theoretical 1 Lessons) | Canan Külah |
| 25 | Systemic Mycoses (Theoretical 1 Lessons) | Canan Külah |
| 26 | Opportunistic Mycoses (Theoretical 2 Lessons) | Canan Külah |
| 27 | Intestinal And Urogenital Protozoa (Theoretical 2 Lessons) | Canan Külah |
| 28 | Blood And Tissue Protozoa (Theoretical 2 Lessons) | Canan Külah |
| 29 | Nematodes (Theoretical 2 Lessons) | Canan Külah |
| 30 | Tremadotes (Theoretical 1 Lessons) | Canan Külah |
| 31 | Cestodes (Theoretical 1 Lessons) | Canan Külah |
| 32 | General Consideration Of Renal Physiology (Theoretical 1 Lessons) | Barış Çakır |
| 33 | Renal Glomerular Function (Theoretical 2 Lessons) | Barış Çakır |
| 34 | Renal Tubular Function (Theoretical 2 Lessons) | Barış Çakır |
| 35 | Acid-Base Balance (Theoretical 1 Lessons) | Barış Çakır |
| 36 | Clearance And Micturition (Theoretical 1 Lessons) | Barış Çakır |
| 37 | General Information About Hormones (Theoretical 2 Lessons) | Barış Çakır |
| 38 | Physiology Of The Pituitary And Hypothalamus Hormones (Theoretical 2 Lessons) | Barış Çakır |
| 39 | Thyroid Hormones Physiology (Theoretical 1 Lessons) | Barış Çakır |
| 40 | Physiology Of Parathyroid Hormone And Calcitonin (Theoretical 1 Lessons) | Barış Çakır |
| 41 | Physiology Of The Endocrine Functions Of The Pancreas (Theoretical 2 Lessons) | Barış Çakır |
| 42 | Physiology Of Adrenal Gland Hormones (Theoretical 2 Lessons) | Barış Çakır |
| 43 | Physiology Of Male Reproductive System And Hormones (Theoretical 2 Lessons) | Barış Çakır |
| 44 | The Physiology Of Adipose Tissue Hormones (Theoretical 1 Lessons) | Barış Çakır |
| 45 | Physiology Of Female Reproductive System And Hormones (Theoretical 3 Lessons) | Barış Çakır |
| 46 | The Male Genital Organs (Theoretical 2 Lessons) | Uğur Baran Kasırga |
| 47 | Urine Analysis (Pratik: 1 Saat) | M. Erinç Sitar |
| 48 | Physiology Lab:Endocrine System Physiology (Pratik: 1 Saat) | Barış Çakır |
| 49 | Physiology Lab: Renal Physiology (Pratik: 1 Saat) | Barış Çakır |
| 50 | Histology Lab: Urinary Tract (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp  |
| 51 | Histology Lab: Female Reproductive System (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp  |
| 52 | Histology Lab: Male Reproductive System (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp  |
| 53 | Histology Lab: Endocrine System (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp  |
| 54 | Biochemistry Lab: Urine Analysis (Pratik: 1 Saat) | Pinar Eker |
| 55 | Anatomy Lab: The Kidneys, Urinary Bladder (Pratik: 1 Saat) | Betül Aslan |
| 56 | Anatomy Labthe Pelvis And Perineum (Pratik: 1 Saat) | Betül Aslan |
| 57 | Anatomy Lab: Female Genital Organs (Pratik: 1 Saat) | Betül Aslan |
| 58 | Anatomy Lab: Male Genital Organs (Pratik: 1 Saat) | Betül Aslan |
| 59 | Microbiology Lab: Examination Of Fungi. Group 1 (Pratik: 2 Saat) | Canan Külah |
| 60 | Microbiology Lab: Examination Of Fungi. Group 2 (Pratik: 2 Saat) | Canan Külah |
| 61 | Microbiology Lab: Examination Of Protozoa And Helminths. Group 1 (Pratik: 2 Saat) | Canan Külah |
| 62 | Microbiology Lab: Examination Of Protozoa And Helminths. Group 2 (Pratik: 2 Saat) | Canan Külah |
| 63 | Microbiology Lab: Examination Of Protozoa And Helminths (Pratik: 2 Saat) | Canan Külah |
| 64 | Renal Glomerular Function (Teorik: 2 Saat) | Barış Çakır |
| 65 | Microbiology Lab: Examination Of Fungi (Pratik: 2 Saat) | Canan Külah |
| 66 | Biochemistry Lab: Hormone Analysis With Case Examples (Pratik: 1 Saat) | Pinar Eker |
| 67 | Physiology Lab:Endocrine System Physiology Group 1 (Pratik: 1 Saat) | Barış Çakır |
| 68 | Physiology Lab:Endocrine System Physiology Group 2 (Pratik: 1 Saat) | Barış Çakır |
| 69 | Physiology Lab: Renal Physiology Group 1 (Pratik: 1 Saat) | Barış Çakır |
| 70 | Physiology Lab: Renal Physiology Group 2 (Pratik: 1 Saat) | Barış Çakır |
| 71 | Histology Lab: Urinary Tract Group 1 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 72 | Histology Lab: Urinary Tract Group 2 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 73 | Histology Lab: Female Reproductive System Group 1 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 74 | Histology Lab: Female Reproductive System Group 2 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 75 | Histology Lab: Male Reproductive System Group 1 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 76 | Histology Lab: Male Reproductive System Group 2 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 78 | Histology Lab: Endocrine System Group 1 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 79 | Histology Lab: Endocrine System Group 2 (Pratik: 1 Saat) | Yaprak Dönmez Çakıl, Sevtap Gökalp |
| 80 | Biochemistry Lab: Urine Analysis Group 1 (Pratik: 1 Saat) | Pinar Eker  |
| 81 | Biochemistry Lab: Urine Analysis Group 2 (Pratik: 1 Saat) | Pinar Eker  |
| 82 | Anatomy Lab: The Kidneys, Urinary Bladder Group 1 (Pratik: 1 Saat) | Betül Aslan |
| 83 | Anatomy Lab: The Kidneys, Urinary Bladder Group 2 (Pratik: 1 Saat) | Betül Aslan |
| 84 | Anatomy Labthe Pelvis And Perineum Group 1 (Pratik: 1 Saat) | Betül Aslan |
| 85 | Anatomy Labthe Pelvis And Perineum Group 2 (Pratik: 1 Saat) | Betül Aslan |
| 86 | Anatomy Lab: Female Genital Organs Group 1 (Pratik: 1 Saat) | Betül Aslan |
| 87 | Anatomy Lab: Female Genital Organs Group 2 (Pratik: 1 Saat) | Betül Aslan |
| 88 | Anatomy Lab: Male Genital Organs Group 1 (Pratik: 1 Saat) | Betül Aslan |
| 89 | Anatomy Lab: Male Genital Organs Group 2 (Pratik: 1 Saat) | Betül Aslan |
| 90 | Biochemistry Lab: Hormone Analysis With Case Examples Group 1 (Pratik: 1 Saat) | Pinar Eker  |
| 91 | Biochemistry Lab: Hormone Analysis With Case Examples Group 2 (Pratik: 1 Saat) | Pinar Eker  |

**Committee 5: Biological Basis of Disease I Subject Committee**

| No | **Subject/Competence** | **Instructor** |
| --- | --- | --- |
| 1 | Introduction To Clinical Biochemistry And Instrumentation (Theoretical 1 Lessons) | M. Erinç Sitar |
| 2 | Clinical Biochemistry Of Body Fluids (Theoretical 1 Lessons) | M. Erinç Sitar |
| 3 | Factors Determining Enzyme Leakage İnto Blood (Theoretical 1 Lessons) | M. Erinç Sitar |
| 4 | Free Radicals (Theoretical 2 Lessons) | M. Erinç Sitar |
| 5 | Biochemistry Of Aging (Theoretical 1 Lessons)  | M. Erinç Sitar |
| 6 | Introduction To İmmunology (Theoretical 2 Lessons) | Canan Külah |
| 7 | Innate İmmunity (Theoretical 2 Lessons) | Canan Külah |
| 8 | Cytokines (Theoretical 1 Lessons) | Canan Külah |
| 9 | Antigen Presentation And Recognition (Theoretical 2 Lessons) | Canan Külah |
| 10 | Cell Mediated İmmunity And Effector Mechanisms (Theoretical 3 Lessons) | Canan Külah |
| 11 | Humoral İmmunity And Effector Mechanisms (Theoretical 3 Lessons) | Canan Külah |
| 12 | Immunologic Tolerance And Autoimmunity (Theoretical 1 Lessons) | Canan Külah |
| 13 | Immunity To Tumors (Theoretical 1 Lessons) | Canan Külah |
| 14 | Transplantation İmmunology (Theoretical 1 Lessons) | Canan Külah |
| 15 | Hypersensitivity Disorders (Theoretical 2 Lessons) | Canan Külah |
| 16 | Immunodeficiencies (Theoretical 1 Lessons) | Canan Külah |
| 17 | Vaccines (Theoretical 1 Lessons) | Canan Külah |
| 18 | Immunologic Laboratory Techniques (Theoretical 1 Lessons) | Canan Külah |
| 19 | Introductıon To Pathology (Teorik: 1 Saat) Duygu | Aptullah Haholu |
| 20 | Cellular Responses To Stress And Noxious Stimuli (Teorik: 1 Saat) | Aptullah Haholu |
| 21 | Adaptations Of Cellular Growth And Differentiation (Teorik: 1 Saat) | Aptullah Haholu |
| 22 | Cell Injury And Cell Death (Teorik: 1 Saat) | Aptullah Haholu |
| 23 | Morphologic Alterations İn Cell Injury (Teorik: 1 Saat) | Aptullah Haholu |
| 24 | Mechanisms Of Cell Injury (Teorik: 1 Saat) | Aptullah Haholu |
| 25 | Ischemic And Hypoxic And Toxic Injury (Teorik: 1 Saat) | Aptullah Haholu |
| 26 | Apoptosis (Teorik: 1 Saat) | Aptullah Haholu |
| 27 | Intracellular Accumulations (Teorik: 1 Saat) | Aptullah Haholu |
| 28 | Pathologic Calcification And Cellular Aging (Teorik: 1 Saat) | Aptullah Haholu |
| 29 | Overview Of Inflammation: Definitions And General Features (Teorik: 2 Saat) | Aptullah Haholu |
| 30 | Acute Inflammation (Teorik: 1 Saat) | Aptullah Haholu |
| 31 | Mediators Of Inflammation (Teorik: 1 Saat) | Aptullah Haholu |
| 32 | Chronic Inflammation (Teorik: 1 Saat) | Aptullah Haholu |
| 33 | Injury And Tissue Repair (Teorik: 1 Saat)  | Aptullah Haholu |
| 34 | (Pathology) Immune System (Teorik: 2 Saat) | Aptullah Haholu |
| 35 | (Pathology) Hemodynamic Disorders (Teorik: 1 Saat) | Aptullah Haholu |
| 36 | Introduction To Medical Pharmacology (Teorik: 2 Saat) | Ali Çağlar Öğütman |
| 37 | Absorption Of Drugs And Transport Through Biological Membranes (Teorik: 2 Saat) | Ali Çağlar Öğütman |
| 38 | Pharmaceutical Forms Of Drugs (Teorik: 2 Saat)  | Tuğba Gümüştaş |
| 39 | Routes Of Drug Administration (Teorik: 2 Saat) | Ali Çağlar Öğütman |
| 40 | The Dynamics Of Drug Distribution (Teorik: 2 Saat) | Ali Çağlar Öğütman |
| 41 | The Dynamics Of Drug Elimination (Teorik: 2 Saat) | Ali Çağlar Öğütman |
| 42 | Dose, Concentration-Effect Relationship (Teorik: 2 Saat) | Ali Çağlar Öğütman |
| 43 | Drug Receptors And Pharmacodynamics (Teorik: 2 Saat)  | Tuğba Gümüştaş |
| 44 | Mechanisms Of Drug Action (Teorik: 2 Saat) | Tuğba Gümüştaş |
| 45 | Drug-Drung İnteractions (Teorik: 2 Saat) | Ali Çağlar Öğütman |
| 46 | Factors Contributing To Variations İn Drug Effects (Teorik: 2 Saat) | Ali Çağlar Öğütman |
| 47 | Pharmacogenetics (Teorik: 2 Saat) | Ali Çağlar Öğütman |
| 48 | Pharmacovigilance (Teorik: 1 Saat) | Tuğba Gümüştaş |
| 49 | Principles Of Prescription Writing (Teorik: 1 Saat) | Tuğba Gümüştaş |
| 50 | Drug Side Effects (Teorik: 2 Saat) | Tuğba Gümüştaş |
| 51 | Environmental Toxicology (Teorik: 4 Saat) | Ali Çağlar Öğütman |
| 52 | Ph2c5 Patology Pratics (Pratik: 2 Saat) | Aptullah Haholu |
| 53 | The Dynamics Of Drug Metabolism (Teorik: 1 Saat) | Ali Çağlar Öğütman |
| 54 | Pathology Lab (Pratik: 2 Saat) | Aptullah Haholu |
| 55 | Pharmacology Lab: Drug Application Routes And Pharmaceutical Forms Skill (Pratik: 4 Saat)  | Ali Çağlar Öğütman |
| 57 | Pharmacology Lab: Drug Application Routes And Pharmaceutical Forms Skill Group 1 (Pratik: 4 Saat) | Ali Çağlar Öğütman |
| 58 | Pharmacology Lab: Drug Application Routes And Pharmaceutical Forms Skill Group 2 (Pratik: 4 Saat) | Ali Çağlar Öğütman |

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| **EDUCATIONAL METHODS GUIDE** |
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| **CODE** | **METHOD NAME** | **EXPLANATION** |
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| **EM1** | Amphitheatre lesson | These are the courses applied in preclinical education where the whole class is together. |
| **EM2** | Class lesson | These are courses applied in small groups during the clinical period. |
| **EM3** | Lab application | These are laboratory courses applied in the preclinical period. |
| **EM4** | Skill Training App | It is the work that the student does on a model or mannequin before meeting with the real patient, which will be done in the Virtual Clinic or other environment. |
| **EM5** | Clinic Education | These are activities that provide clinical competence by applying bedside training with real patients or models under the supervision of trainers. |
| **EM6** | Independent Study Hours | These are the periods in the curriculum for the student to repeat what they have learned and to prepare for new lesson sessions. |
| **EM7** | Community Based Education Application | Field practices, non-unit professional practices, etc. includes. |
| **EM8** | Problem Based Learning | Problem based learning. |
| **EM9** | Private Study module | These are applications that will enable the student to gain in-depth knowledge about a subject individually or as a group. |
| **EM10** | Scientific Research study | These are applications aimed at improving the scientific research competence of the student. |
| **EM11** | Other | If this code is used, the training method should be written in detail. |

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| **MEASUREMENT EVALUATION METHODS GUIDE** |
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| **CODE** | **METHOD NAME** | **EXPLANATION** |
| --- | --- | --- |
|  **ME1** | Theoretical Exam ( Multiple Elective , Multiple Optional etc Questions containing ) | The committee is the exam used in the final exams. |
|  **ME2** | Practical exam | It should be used for laboratory applications. |
| **ME3** | Classical Verbal |  |
| **ME4** | Structured Oral | It is an oral exam in which questions and answers are prepared on a form beforehand. |
| **ME5** | OSCE | Objective Structured Clinical Examination |
| **ME6** | CORE | Clinical Act Execution Exam |
| **ME7** | ICE ( Business head Evaluation ) | It is the evaluation made by the trainer on the student at the bedside or during the practice. |
| **ME8** | Other | A statement must be made. |

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1. [↑](#footnote-ref-0)