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| **C:\Users\Namariel\Downloads\TıpF (1)\TıpF\TıpF-2.png****MARMARA UNIVERSITY SCHOOL of MEDICINE** |
| DEVELOPMENT AND ORGANIZATION OF HUMAN BODYYEAR 1 COURSE 3January 23 – March 31, 2023 |
| **Coordinator of the Course 1.3**Assoc. Prof. Özlem Tuğçe KAYA | **Coordinator of the Module 1.3**Prof. Şule ÇETİNEL |
| **Year 1 Coordinators** Prof. Dilek AKAKIN & Prof. Mustafa AKKİPRİK |
| **Module Coordinator**Prof. Rezzan GÜLHAN Assist.Prof. Sinem YILDIZ İNANICI | **Introduction to Clinical Practice (ICP) Coordinators**Prof. Gülru Pemra CÖBEK ÜNALANProf. Serap ÇİFÇİLİ |
| **Coordinator of Multidisciplinary Students’ Lab**.Prof. Betül YILMAZ | **Coordinator of Clinical Skills Lab.**Prof. Çiğdem APAYDIN KAYA |
| **Coordinator of Assessment Unite**Assist. Prof. Cevdet NACAR | **Coordinator of Student Exchange Programs**Assist. Prof. Can ERZİK |
| **Vice-Chief Coordinators** |
| **Program**Prof. Oya ORUN | **Assessment** Prof. Hasan Raci YANANLI | **Students’ Affairs**Assist. Prof. Can ERZİK |
| **Chief Coordinator (Pre-Clinical Education)** Prof. Serap ŞİRVANCI | **Coordinator of Medical Education Program Evaluation and Development Commission**Prof. Harika ALPAY |
| **Vice Dean (Education)**Prof. Altuğ ÇİNÇİNProf. Hasan Raci YANANLI | **Dean**Prof. Ümit Süleyman ŞEHİRLİ |

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| MU MEDICAL SCHOOL PRE-CLINICAL EDUCATION PROGRAM |
| LEARNING OUTCOMES / COMPETENCIES1. Clinical Care: Qualified patient care and community oriented health care
2. Basic clinical skills
3. The organization and management of the patient and the patient care
4. The organization and the management of health care delivery services / system
5. Health promotion and disease prevention
6. Medical Knowledge and Evidence-Based Medicine
7. Appropriate information retrieval and management skills
8. The integration of knowledge, critical thinking and evidence-based decision making
9. Scientific methods and basic research skills
10. Professional Attitudes and Values
11. Communication skills and effective communication with patients / patient relatives
12. Interpersonal relationships and team working
13. Ethical and professional values, responsibilities
14. Individual, social and cultural values and responsibilities
15. Reflective practice and continuing development
16. Healthcare delivery systems, management and community oriented health care
17. Education and counseling
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| PHASE-1 LEARNING OBJECTIVES1. Understanding the normal structures and functions of human body
2. Correlating the basic concepts and principles to each other that define health and disease; applying basic concepts and principles to health and disease conditions
3. Developing clinical problem solving, clinical reasoning and evaluation skills by integrating biomedical, clinical, social and humanities knowledge
4. Gaining basic clinical skills by applications in simulated settings.
5. Awareness of the professional values in health and disease processes (professional, individual, societal) and acquisition necessary related skills
6. Evaluating critically and synthesizing all the medical evidence and perform respecting scientific, professional and ethical values
7. Acquisition skills in reflective thinking and practicing, being open to continuous individual / professional development.
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| PHASES – 1 THEMA/ORGAN SYSTEM-BASED COURSE PROGRAMSYear 1, Course 1: Introduction to Cell and Cellular ReplicationYear 1, Course 2: Cellular Metabolism and TransportYear 1, Course 3: Development and Organization of Human BodyYear 1, Course 4: Introduction to Nervous System and Human BehaviorYear 2, Course 1: Cell and Tissue Injury I Year 2, Course 2: Cell and Tissue Injury IIYear 2, Course 3: Hematopoietic System and Related DisordersYear 2, Course 4: Musculoskeletal, Integumentary Systems and Related DisordersYear 2, Course 5: Respiratory System and Related DisordersYear 3, Course 1: Cardiovascular System and Related DisordersYear 3, Course 2: Gastrointestinal System, Metabolism and Related DisordersYear 3, Course 3: Nervous System and Related DisordersYear 3, Course :Growth, Development, Mental Health and Related DisordersYear 3, Course 5: Urinary and Reproductive System and Related Disorders |

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| DEVELOPMENT AND ORGANIZATION OF HUMAN BODY |
| AIM and LEARNING OBJECTIVES of COURSE **Aim:** At the end of this course, first year students will acquire knowledge about the development, organization and function of different tissues to form organs. During this course students will also gain knowledge about the basic properties of microbiological universe and defense mechanism of the body. **Learning Objectives:** At the end of this committee, first year students will, * define the structural elements of the tissues
* be able to identify the different tissues regarding their structures, organization and functioning
* acquire knowledge concerning the development and differentiation process of the organs
* understand the classification and the basic properties of various microorganisms, and basic genetics of the bacteria
* acquire skills necessary to perform experimental applications
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| **ASSESSMENT SYSTEM**Module examination: Written exam at the end of module (10 % of final score)Practical examination: Practical exams at the end of courseCourse examination: Written exam at the end of course |  **PROGRAM EVALUATION** Evaluation at the end of the course, is done both orally and by using structured evaluation forms |
| DEPARTMENTS PARTICIPATING IN COURSE-1.3 &MODULE-1.3 |
| * Anatomy
* Biochemistry
* Biophysics
* Biostatistics
* Child and Adolescent Psychiatry
* Histology& Embryology
* Immunology
* Medical Biology
* Medical Education
* Medical Genetics
 | * Microbiology
* Neurology
* Obstetrics and Gynecology
* Physical Therapy and Rehabilitation
* Physiology
 |
| LECTURERS / TUTORS |
| Dilek AKAKIN, Professor of Histology and EmbryologyTunç AKKOÇ, Professor of PediatricsMehmet Burak AKSU, Assist. Professor of MicrobiologyPınar ATA, Professor of Medical GeneticsSaime BATIREL, Assoc. Professor of BiochemistryGülnaz Nural BEKİROĞLU, Professor of BiostatisticsHülya CABADAK, Professor of BiophysicsŞule ÇETİNEL, Professor of Histology and EmbryologyÖzge EMRE, Instructor of Medical EnglishFeriha ERCAN, Professor of Histology and EmbryologyCan ERZİK, Assist. Professor of Medical BiologyAhmet İlter GÜNEY, Professor of Medical Genetics | Ufuk HASDEMİR, Professor of MicrobiologyAyşegül KARAHASAN, Professor of MicrobiologyÖzgür KASIMAY, Professor of PhysiologyÖzlem Tuğçe KAYA, Assoc. Professor of Histology and EmbryologyÖzlem KİRAZLI, Assist. Professor of AnatomyHızır KURTEL, Professor of PhysiologyNecmettin Ömer ÖZDOĞMUŞ, Professor of AnatomyElvan SAYIN, Assist. Professor of MicrobiologyÖnder ŞİRİKÇİ, Professor of BiochemistrySerap ŞİRVANCI, Professor of Histology and EmbryologyUral VERİMLİ, Assist. Professor of AnatomyAlper YILDIRIM, Assoc. Professor of PhysiologyBetül YILMAZ, Professor of Biochemistry |

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| READING / STUDYING MATERIALS* Biochemistry; Stryer, 4th ed., Freeman
* Biochemistry; Zubay, 3rd ed., WCB
* Clinical Anatomy for Medical Students; Richard S. Snell
* Clinically Oriented Anatomy; Keith L. Moore, Arthur F. Dalley
* Color Textbook of Histology; Gartner & Hiatt, 3rd ed., Elsevier Health Sciences, 2004
* Gray Anatomi; Çeviri Editörü: Prof. Dr. Mehmet YILDIRIM, Güneş Kitabevi, 2006
* Gray’s Anatomy for Students; Richard L. Drake, Henry Gray, Adam W.M. Mitchell
* Clinical Neuroanatomy. Snell, Richard S. Philadelphia: Lippincott Williams & Wilkins, 2010.
* Mehmet Yıldırım. Tıp Fakültesi Öğrencileri İçin Klinik Nöroanatomi. (Clinical Neuroanatomy, Snell, Richard S.’den çeviri). İstanbul: Nobel Tıp, 2000.
* Fitzgerald's Clinical Neuroanatomy and Neuroscience. Mtui, Estomih, Gregory Gruener, Peter Dockery, and M. J. T. Fitzgerald. 2017.
* Principles of Neural Science. Kandel, Eric R., and Sarah Mack. 2014.
* Essential Clinical Neuroanatomy. Champney, Thomas. 2016.
* Fonksiyonel Nöroanatomi. Taner, Doğan, et al. Ankara: ODTÜ Geliştirme Vakfı, 2011.
* Harper’s Biochemistry; Murray, Granner, 23rd ed., Lange
* Histology A Text and Atlas; Michael H Ross, Michael R. Ross, Wojciech Pawlina, 5th ed. Lippincott Williams & Wilkins, 2006
* Histoloji ve Hücre Biyolojisi; Abraham L.Kierzenbaum; Çeviri editorü: Ramazan Demir, Palme Yayıncılık - Ankara, 2006
* Human Histology: Alan Stevens, James Lowe, 3rd ed., Elsevier Health Sciences, 2004
* Introduction to Biostatistics for Health Sciences, Michael R. Chernick, Robert H. Friss, Willey Interscience, New Jersey, 2003
* Larsen’s Human Embryology; Gary C. Schoenwolf, Philippa H. Francis-West, Philip R. Brauer, Steven B. Bleyl, 4th ed., Churchill Livingstone, 2008
* Lehninger’s Principles of Biochemistry; Nelson, Cox, 3rd ed., Worth
* Medical Statistics at a Glance; Aviva Petrie, Caroline Sabin, Blackwell Science, London, 2003
* Molecular Biology of the Cell; Alberts et al., 3rd ed., Garland
* Practical Statistics for Medical Research; Douglas Altman, Chapman and Hall, London, 1995
* Principles of Physiology; Bern and Levy, 4th ed.
* Review Medical Microbiology; Ernest Jawetz et al.
* Review of Medical Microbiology; Patric R. Muray, Ken S. Rosenthal
* Temel Biyoistatistik; Mustafa Şenocak, Çağlayan Kitabevi, İstanbul, 1990
* Temel Histoloji; Junqueira LC, Carneiro J; Çeviri editörleri: Yener Aytekin, Seyhun Solakoğlu, Nobel Matbaacılık, 10th ed. 2003
* Textbook of Physiology; Guyton and Hall, 10th ed.
* The Cell: A Molecular Approach; Cooper, 2nd ed., ASM press
* The Developing Human; Keith L. Moore, TVN Persaud, 8th ed. Elsevier Health Sciences, 2007
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| SUMMARY OF THECOURSE 1.3 |
| **Discipline** | **Lecture & Group Discussion** | **Multidisciplinary Lab. & Clinical Skills Lab. Practice** | Total |
| Anatomy | 5 | 3 | 8 |
| Biochemistry | 10 |  | 10 |
| Biostatistics | 12 |  | 12 |
| Histology and Embryology | 36 | 8 | 43 |
| Immunology | 2 |  | 2 |
| Medical Biology | 1 |  | 1 |
| Microbiology | 17 | 6 | 20 |
| Physiology | 12 | 1 | 13 |
| Biophysics | 1 |  | 1 |
| Medical Genetics | 2 |  | 2 |
| Subtotal | 96 | 15 | 111 |
| PBL Module | 8 |  | 8 |
| TOTAL | 104 | 15 | 119 |
| ICP-1: Computer Skills (Students’ Research Activity) | 12 |  | 12 |
| Medical English | 14 |  | 14 |
| **TOTAL** | **131** | **15** | **146** |

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| **EIGHT WEEK PROGRAM** |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week-1 (23 January - 27 January 2023)** |
| **Monday** | **23 January** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Introduction to the course | Dr. Özlem Tuğçe Kaya |
| 10:40-11:30 | Opening lecture: Homeostasis among organ systems: Cross-talking | Dr. Önder Şirikçi |
| 11:40-12:30 | History and development of microbiology | Dr. Ayşegül Karahasan |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 | Elective course |  |
| 16:40-17:30 | Elective course |  |
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| **Tuesday** | **24 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Introduction to cardiovascular system | Dr. Necmettin Ömer Özdoğmuş |
| 10:40-11:30 | Epithelial tissue | Dr. Dilek Akakın |
| 11:40-12:30 | Epithelial tissue | Dr. Dilek Akakın |
|  |  |  |
| 13:40-14:30 | Glandular tissue | Dr. Dilek Akakın |
| 14:40-15:30 | Review of statistical inference table and introduction to nonparametric methods  | Dr. Gülnaz Nural Bekiroğlu |
| 15:40-16:30 | Sign test, Mann-Whitney U test, Wilcoxon test (paired sample) | Dr. Gülnaz Nural Bekiroğlu |
| 16:40-17:30 |  |  |
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| **Wednesday** | **25 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Medical English | Dr. Özge Emre |
| 11:40-12:30 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:40-14:30 | Histology of supporting tissue: Connective tissue  | Dr. Şule Çetinel |
| 14:40-15:30 | Histology of supporting tissue: Connective tissue  | Dr. Şule Çetinel |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Thursday** | **26 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Specialized connective tissues: Adipose tissue and blood  | Dr. Feriha Ercan |
| 11:40-12:30 | Specialized connective tissues: Cartilage and bone | Dr. Feriha Ercan |
|  |  |  |
| 13:40-14:30 | Biochemistry of connective tissue | Dr. Saime Batırel |
| 14:40-15:30 | Biochemistry of connective tissue | Dr. Saime Batırel |
| 15:40-16:30 | Classification and structure of prokaryotic and eukaryotic organisms | Dr. Elvan Sayın |
| 16:40-17:30 |  |  |
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| **Friday** | **27 January** |  |
| 08:40-09:30 | Chi-square test of independence | Dr. Gülnaz Nural Bekiroğlu |
| 09:40-10:30 | Chi-square test of homogenity | Dr. Gülnaz Nural Bekiroğlu |
| 10:40-11:30 | Introduction to embryology: Spermatogenesis  | Dr. Feriha Ercan |
| 11:40-12:30 | Introduction to embryology: Spermatogenesis  | Dr. Feriha Ercan |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Biochemistry of adipose tissue | Dr. Saime Batırel |
| 15:40-16:30 | Biochemistry of adipose tissue | Dr. Saime Batırel |
| 16:40-17:30 |  |  |
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| **Week-2 (13 February - 17 February 2023)** |
| **Monday** | **13 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 | Elective course  |  |
| 16:40-17:30 | Elective course  |  |
| 17:40-18:30 |  |  |
| 18:40-19:30 |  |  |
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| **Tuesday** | **14 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **15 February** |  |
| 08:40-09:30 | Histology LAB: Epithelial tissue Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Histology LAB: Epithelial tissue Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Histology LAB: Epithelial tissue Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Histology LAB: Epithelial tissue Group B | Multidisciplinary Lab. |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Thursday** | **16 February** |  |
| 08:40-09:30 | Histology LAB: Connective tissue Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Histology LAB: Connective tissue Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Histology LAB: Connective tissue Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Histology LAB: Connective tissue Group B | Multidisciplinary Lab. |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Friday** | **17 February** |  |
| 08:40-09:30 | Introduction to Communication Skills and Medical Interview Exam | ICP Lab. |
| 09:40-10:30 | Introduction to Communication Skills and Medical Interview Exam | ICP Lab. |
| 10:40-11:30 | Introduction to Communication Skills and Medical Interview Exam | ICP Lab. |
| 11:40-12:30 | Introduction to Communication Skills and Medical Interview Exam | ICP Lab. |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Week-3 (20 February - 24 February 2023)** |
| **Monday** | **20 February** |  |
| 08:40-09:30 | Histology LAB: Specialized connective tissue Grup A | Multidisciplinary Lab. |
| 09:40-10:30 | Histology LAB: Specialized connective tissue Grup A | Multidisciplinary Lab. |
| 10:40-11:30 | Histology LAB: Specialized connective tissue Grup B | Multidisciplinary Lab. |
| 11:40-12:30 | Histology LAB: Specialized connective tissue Grup B | Multidisciplinary Lab. |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 | Elective course |  |
| 16:40-17:30 | Elective course |  |
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| **Tuesday** | **21 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **22 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Medical English | Dr. Özge Emre |
| 11:40-12:30 | Medical English | Dr. Özge Emre |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Thursday** | **23 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 | Smooth muscle contraction | Dr. Hülya Cabadak |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Friday** | **24 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Week-4 (27 February - 03 March 2023)** |
| **Monday** | **27 February** |  |
| 08:40-09:30 | Classification and structure of helminths | Dr. Ayşegül Karahasan |
| 09:40-10:30 | Introduction to musculoskeletal system | Dr. Özlem Kirazlı |
| 10:40-11:30 | Introduction to embryology: Ooogenesis | Dr. Dilek Akakın |
| 11:40-12:30 | Introduction to embryology: Ooogenesis | Dr. Dilek Akakın |
|  |  |  |
| 13:40-14:30 | Fertilization and implantation | Dr. Şule Çetinel |
| 14:40-15:30 | Fertilization and implantation | Dr. Şule Çetinel |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Tuesday** | **28 February** |  |
| 08:40-09:30 | Comparing risk-relative risk and Odds ratio | Dr. Gülnaz Nural Bekiroğlu |
| 09:40-10:30 | Some basic concepts for diagnosis tests | Dr. Gülnaz Nural Bekiroğlu |
| 10:40-11:30 | Skeletal muscle | Dr. Dilek Akakın |
| 11:40-12:30 | Formation of bilaminar embryo | Dr. Feriha Ercan |
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| 13:40-14:30 | Formation of trilaminar embryo | Dr. Feriha Ercan |
| 14:40-15:30 | Formation of trilaminar embryo | Dr. Feriha Ercan |
| 15:40-16:30 | Basic structure of bacterial cell and classification of bacteria  | Dr. Elvan Sayın |
| 16:40-17:30 | Basic structure of bacterial cell and classification of bacteria  | Dr. Elvan Sayın |
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| **Wednesday** | **01 March** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Medical English | Dr. Özge Emre |
| 11:40-12:30 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:40-14:30 | Cardiac muscle | Dr. Dilek Akakın |
| 14:40-15:30 | Smooth muscle | Dr. Dilek Akakın |
| 15:40-16:30 | Classification, morphology and replication of viruses and prions  | Dr. Ufuk Hasdemir |
| 16:40-17:30 | Classification, morphology and replication of viruses and prions  | Dr. Ufuk Hasdemir |
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| **Thursday** | **02 March** |  |
| 08:40-09:30 | Introduction to respiratory system | Dr. Necmettin Ömer Özdoğmuş |
| 09:40-10:30 | Anatomy of the organs related to digestive system  | Dr. Ural Verimli |
| 10:40-11:30 | Histology of lung, heart and vessels | Dr. Özlem Tuğçe Kaya |
| 11:40-12:30 | Histology of lung, heart and vessels | Dr. Özlem Tuğçe Kaya |
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| 13:40-14:30 | Physiological properties of the skeletal muscle | Dr. Alper Yıldırım |
| 14:40-15:30 | Physiological properties of the smooth muscle | Dr. Alper Yıldırım |
| 15:40-16:30 | Formation of basic organ systems | Dr. Şule Çetinel |
| 16:40-17:30 | Formation of basic organ systems | Dr. Şule Çetinel |
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| **Friday** | **03 March** |  |
| 08:40-09:30 | ICP-1 Student Research & Computer Skills  |  |
| 09:40-10:30 | ICP-1 Student Research & Computer Skills  |  |
| 10:40-11:30 | ICP-1 Student Research & Computer Skills  |  |
| 11:40-12:30 | ICP-1 Student Research & Computer Skills  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Introduction to urogenital system | Dr. Özlem Kirazlı |
| 15:40-16:30 | Composition and function of blood | Dr. Özgür Kasımay |
| 16:40-17:30 |  |  |
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| **Week-5 (06 March - 10 March 2023)** |
| **Monday** | **06 March** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Physiology LAB: Muscle physiology  |  |
| 10:40-11:30 | Physiology LAB: Muscle physiology  |  |
| 11:40-12:30 | Physiology LAB: Muscle physiology  |  |
|  |  |  |
| 13:40-14:30 | Histology of gastrointestinal system | Dr. Özlem Tuğçe Kaya |
| 14:40-15:30 | Histology of gastrointestinal system | Dr. Özlem Tuğçe Kaya |
| 15:40-16:30 | Growth of bacteria | Dr. Elvan Sayın |
| 16:40-17:30 | Bacterial metabolism | Dr. Elvan Sayın |
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| **Tuesday** | **07 March** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Functional structures of the heart and peripheral circulation | Dr. Alper Yıldırım |
| 10:40-11:30 | Principles of sterilization and disinfection | Dr. Ayşegül Karahasan |
| 11:40-12:30 | Principles of sterilization and disinfection | Dr. Ayşegül Karahasan |
|  |  |  |
| 13:40-14:30 | Classification and general properties of medically important fungi | Dr. Elvan Sayın |
| 14:40-15:30 | Classification and general properties of medically important fungi | Dr. Elvan Sayın |
| 15:40-16:30 | Smooth muscle contraction | Dr. Hülya Cabadak |
| 16:40-17:30 |  |  |
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| **Wednesday** | **08 March** |  |
| 08:40-09:30 | Functions of the respiratory system | Dr. Alper Yıldırım |
| 09:40-10:30 | Functional structures of the digestive system | Dr. Alper Yıldırım |
| 10:40-11:30 | Medical English | Dr. Özge Emre |
| 11:40-12:30 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:40-14:30 | Normal distribution and composition of body fluids | Dr. Özgür Kasımay |
| 14:40-15:30 | Regulation of pH | Dr. Özgür Kasımay |
| 15:40-16:30 | Genomic organization and rearrangement of immunoglobulin genes | Dr. Can Erzik |
| 16:40-17:30 |  |  |
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| **Thursday** | **09 March** |  |
| 08:40-09:30 | Introduction to immunology | Dr. Tunç Akkoç |
| 09:40-10:30 | Cells and organs involved in immune responses | Dr. Tunç Akkoç |
| 10:40-11:30 | Classification and general properties of medically important protozoa | Dr. Mehmet Burak Aksu |
| 11:40-12:30 | Embriyonic induction | Dr. Özlem Tuğçe Kaya |
|  |  |  |
| 13:40-14:30 | Correlation | Dr. Gülnaz Nural Bekiroğlu |
| 14:40-15:30 | Simple regression | Dr. Gülnaz Nural Bekiroğlu |
| 15:40-16:30 |  |  |
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| **Friday** | **10 March** |  |
| 08:40-09:30 | ICP-1 Student Research & Computer Skills  |  |
| 09:40-10:30 | ICP-1 Student Research & Computer Skills  |  |
| 10:40-11:30 | ICP-1 Student Research & Computer Skills  |  |
| 11:40-12:30 | ICP-1 Student Research & Computer Skills  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Histology of spleen, thymus and lymph nodes | Dr. Özlem Tuğçe Kaya |
| 15:40-16:30 | Histology of spleen, thymus and lymph nodes | Dr. Özlem Tuğçe Kaya |
| 16:40-17:30 |  |  |
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| **Week-6 (13 March - 17 March 2023)** |
| **Monday** | **13 March** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Physiology of body defense system | Dr. Hızır Kurtel |
| 11:40-12:30 | Physiology of body defense system | Dr. Hızır Kurtel |
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| 13:40-14:30 | Histology LAB: Epithelial tissue |  |
| 14:40-15:30 | Histology LAB: Connective tissue |  |
| 15:40-16:30 |  |  |
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| **Tuesday** | **14 March** |  |
| 08:40-09:30 | Bacterial genetics and bacteriophages | Dr. Ufuk Hasdemir |
| 09:40-10:30 | Bacterial genetics and bacteriophages | Dr. Ufuk Hasdemir |
| 10:40-11:30 | Histology of urogenital system | Dr. Özlem Tuğçe Kaya |
| 11:40-12:30 | Histology of urogenital system | Dr. Özlem Tuğçe Kaya |
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| 13:40-14:30 | Approach to evidence based medicine  | Dr. Gülnaz Nural Bekiroğlu |
| 14:40-15:30 | Statistical packages | Dr. Gülnaz Nural Bekiroğlu |
| 15:40-16:30 | Developmental genetics | Dr. Ahmet İlter Güney |
| 16:40-17:30 |  |  |
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| **Wednesday** | **15 March** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Medical English | Dr. Özge Emre |
| 11:40-12:30 | Medical English | Dr. Özge Emre |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | PBL-1 |  |
| 15:40-16:30 | PBL-1 |  |
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| **Thursday** | **16 March** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Application of bacterial genetics in industry and microbiology  | Dr. Ufuk Hasdemir |
| 10:40-11:30 | Genomic organization of HLA system | Dr. Pınar Ata |
| 11:40-12:30 | The fate of substances in the body | Dr. Önder Şirikçi |
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| 13:40-14:30 | Biochemical aspect of immunoglobulins | Dr. Önder Şirikçi |
| 14:40-15:30 | Biochemical aspect of immunoglobulins | Dr. Önder Şirikçi |
| 15:40-16:30 | Fetal period | Dr. Serap Şirvancı |
| 16:40-17:30 | PBL study time |  |
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| **Friday** | **17 March** |  |
| 08:40-09:30 | ICP-1 Student Research & Computer Skills  |  |
| 09:40-10:30 | ICP-1 Student Research & Computer Skills  |  |
| 10:40-11:30 | ICP-1 Student Research & Computer Skills  |  |
| 11:40-12:30 | ICP-1 Student Research & Computer Skills  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | PBL-2 |  |
| 15:40-16:30 | PBL-2 |  |
| 16:40-17:30 |  |  |
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| **Week-7 (20 March - 24 March 2023)** |
| **Monday** | **20 March** |  |
| 08:40-09:30 | General principles of renal physiology | Dr. Özgür Kasımay |
| 09:40-10:30 | General principles of renal physiology | Dr. Özgür Kasımay |
| 10:40-11:30 | Interpretation of computer outputs | Dr. Gülnaz Nural Bekiroğlu |
| 11:40-12:30 | Systematic reviews and meta analysis | Dr. Gülnaz Nural Bekiroğlu |
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| 13:40-14:30 | Extraembryonic membranes | Dr. Serap Şirvancı |
| 14:40-15:30 | Extraembryonic membranes | Dr. Serap Şirvancı |
| 15:40-16:30 |  |  |
| **Tuesday** | **21 March** |  |
| 08:40-09:30 | Microbiology LAB: Rules in microbiology laboratory and use of microscope |  |
| 09:40-10:30 | Microbiology LAB: Bacterial growth and cultivation technique  |  |
| 10:40-11:30 | Histology LAB: Specialized connective tissue |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 | Congenital malformations | Dr. Şule Çetinel |
| 14:40-15:30 | Congenital malformations | Dr. Şule Çetinel |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **22 March** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Microbiology LAB: Bacterial growth and cultivation technique |  |
| 10:40-11:30 | Medical English | Dr. Özge Emre |
| 11:40-12:30 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:40-14:30 | PBL study time |  |
| 14:40-15:30 | PBL-3 |  |
| 15:40-16:30 | PBL-3  |  |
| 16:40-17:30 |  |  |
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| **Thursday** | **23 March** |  |
| 08:40-09:30 | Biochemical aspect of cytokines | Dr. Betül Yılmaz |
| 09:40-10:30 | Biochemical aspect of cytokines | Dr. Betül Yılmaz |
| 10:40-11:30 | Anatomy LAB: Anatomy of Digestive System |  |
| 11:40-12:30 | Anatomy LAB: Anatomy of respiratory and circulatory system |  |
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| 13:40-14:30 | Anatomy LAB: Anatomy of Urogenital System |  |
| 14:40-15:30 | PBL study time |  |
| 15:40-16:30 | Histology LAB: Muscle tissue |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Friday** | **24 March** |  |
| 08:40-09:30 | ICP-1 Student Research & Computer Skills  |  |
| 09:40-10:30 | ICP-1 Student Research & Computer Skills  |  |
| 10:40-11:30 | ICP-1 Student Research & Computer Skills  |  |
| 11:40-12:30 | ICP-1 Student Research & Computer Skills  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | PBL-4 |  |
| 15:40-16:30 | PBL-4 |  |
| 16:40-17:30 |  |  |
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| **Week-8 (19 June - 23 June 2023)** |
| **Monday** | **19 June** |   |
| 08:40-09:30 |   |   |
| 09:40-10:30 |   |   |
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| 14:40-15:30 |  |   |
| 15:40-16-30 |   |   |
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| **Tuesday** | **20 June** |   |
| 08:40-09:30 |   |   |
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| 11:40-12:30 |   |   |
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| 13:40-14:30 |  |   |
| 14:40-15:30 |  |   |
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| **Wednesday** | **21 June** |   |
| 08:40-09:30 |   |   |
| 09:40-10:30 |   |   |
| 10:40-11:30 |   |   |
| 11:40-12:30 |   |   |
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| 13:40-14:30 |   |   |
| 14:40-15:30 |   |   |
| **Thursday** | **22 June** |   |
| **10:00** | **Y1C3 THEORETICAL EXAM** | **ONLINE** |
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| 13:40-14:30 |   |   |
| 14:40-15:30 |   |   |
| 15:40-16-30 |   |   |
| 16:40-17:30 |   |   |
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| **Friday** | **23 June** |   |
| 08:40-09:30 |   |   |
| 09:40-10:30 |   |   |
| 10:40-11:30 |   |   |
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