|  |
| --- |
| **C:\Users\Namariel\Downloads\TıpF (1)\TıpF\TıpF-2.png****MARMARA UNIVERSITY SCHOOL of MEDICINE** |
| DEVELOPMENT AND ORGANIZATION OF HUMAN BODYYEAR 1 COURSE 3February 15 – April 09, 2021 |
| **Coordinator of the Course 1.3**Assist. Prof., Özlem Tuğçe KAYA | **Coordinator of the Module 1.3**Prof., Şule ÇETİNEL |
| **Year 1 Coordinators** Assoc. Prof., Dilek AKAKIN & Prof., Mustafa AKKİPRİK |
| **Module Coordinators**Prof., Rezzan GÜLHAN & Assist.Prof., Sinem YILDIZ İNANICI | **Introduction to Clinical Practice (ICP) Coordinators**Prof, Gülru Pemra CÖBEK ÜNALAN & Prof., Serap ÇİFÇİLİ |
| **Coordinator of Multidisciplinary Students’ Lab**.Assoc. Prof., Betül KARADEMİR | **Coordinator of Clinical Skills Lab.**Assoc. Prof., Çiğdem APAYDIN |
| **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** Assoc. Prof., Hasan R. 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., Ümit ŞEHİRLİ | **Dean**Prof., Hakan GÜNDÜZ |

|  |
| --- |
| 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
 |
| 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.
 |
| 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 |

|  |
| --- |
| 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
 |
| **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, Assoc. Professor of Histology and EmbryologyTunç AKKOÇ, Professor of PediatricsMehmet Burak AKSU, Assist. Professor of MicrobiologyYaşar İnci ALİCAN, Professor of PhysiologyPınar ATA, Professor of Medical GeneticsSaime BATIREL, Assoc. Professor of BiochemistryGülnaz Nural BEKİROĞLU, Professor of BiostatisticsHülya CABADAK, Professor of BiophysicsNilgün ÇERİKÇİOĞLU, Professor of MicrobiologyŞule ÇETİNEL, Professor of Histology and EmbryologyÖzge EMRE, Instructor of Medical EnglishFeriha ERCAN, Professor of Histology and EmbryologyAhmet İlter GÜNEY, Assoc. Professor of Medical GeneticsUfuk HASDEMİR, Professor of Microbiology | Betül KARADEMİR YILMAZ, Assoc. Professor of BiochemistryAyşegül KARAHASAN, Professor of MicrobiologyNesrin KARTAL ÖZER, Professor of BiochemistryÖzgür KASIMAY ÇAKIR, Assoc. Professor of PhysiologyÖzlem Tuğçe KAYA, Assist. Professor of Histology and EmbryologyÖzlem KİRAZLI, Assist. Professor of AnatomyHızır KURTEL, Professor of PhysiologyNecmettin Ömer ÖZDOĞMUŞ, Assoc. Professor of AnatomySıdıka Ayşe ÖZER, Professor of Medical BiologyÖnder ŞİRİKÇİ, Professor of BiochemistrySerap ŞİRVANCI, Professor of Histology and EmbryologyAhmet Suha YALÇIN, Professor of BiochemistryAlper YILDIRIM, Assoc. Professor of PhysiologySinem YILDIZ İNANICI, Assist. Professor of Medical Education |

|  |
| --- |
| 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
 |

|  |
| --- |
| 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 | 35 | 8 | 43 |
| Immunology | 2 |  | 2 |
| Medical Biology | 1 |  | 1 |
| Microbiology | 17 | 3 | 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** |

|  |
| --- |
| **EIGHT WEEK PROGRAM** |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week-1 (15 February - 19 February 2021)** |
| **Monday** | **15 February** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Tuesday** | **16 February** |  |
| 09:00-09:50 | Introduction to the course | Dr. Özlem Tuğçe Kaya |
| 10:00-10:50 | Opening lecture: Homeostasis among organ systems: Cross-talking | Dr. Nesrin Kartal Özer  |
| 11:00-11:50 | Introduction to cardiovascular system | Dr. Necmettin Ömer Özdoğmuş |
|  |  |  |
| 13:00-13:50 | History and development of microbiology | Dr. Ayşegül Karahasan |
| 14:00-14:50 | Epithelial tissue  | Dr. Dilek Akakın |
| 15:00-15:50 | Epithelial tissue  | Dr. Dilek Akakın |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Wednesday** | **17 February** |  |
| 09:00-09:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 10:00-10:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 11:00-11:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
|  |  |  |
| 13:00-13:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 14:00-14:50 | Review of statistical inference table and introduction to nonparametric methods  | Dr. Gülnaz Nural Bekiroğlu |
| 15:00-15:50 | Sign test, Mann-Whitney U test, Wilcoxon test (paired sample) | Dr. Gülnaz Nural Bekiroğlu |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|   |  |  |
| **Thursday** | **18 February** |  |
|  |  |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:00-13:50 | Classification and general properties of medically important helminths | Dr. Ayşegül Karahasan |
| 14:00-14:50 | Histology of supporting tissue: Connective tissue  | Dr. Şule Çetinel |
| 15:00-15:50 | Histology of supporting tissue: Connective tissue  | Dr. Şule Çetinel |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Friday** | **19 February** |  |
|  |  |  |
| 09:00-09:50 | Glandular tissue | Dr. Dilek Akakın |
| 10:00-10:50 | Specialized connective tissues: Adipose tissue and blood  | Dr. Feriha Ercan |
| 11:00-11:50 | Specialized connective tissues: Cartilage and bone | Dr. Feriha Ercan |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 | Biochemistry of connective tissue | Dr. Nesrin Kartal Özer  |
| 16:00-16:50 | Biochemistry of connective tissue | Dr. Nesrin Kartal Özer  |
| 17:00-17:50 | Classification and structure of prokaryotic and eukaryotic organisms | Dr. Nilgün Çerikçioğlu |
|  |  |  |
|  |  |  |
| **Week-2 (22 February - 26 February 2021)** |
| **Monday** | **22 February** |   |
|  |  |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Tuesday** | **23 February** |  |
|  |  |  |
| 09:00-09:50 | Introduction to musculoskeletal system | Dr. Özlem Kirazlı |
| 10:00-10:50 | Basic structure of bacterial cell and classification of bacteria  | Dr. Nilgün Çerikçioğlu |
| 11:00-11:50 | Basic structure of bacterial cell and classification of bacteria  | Dr. Nilgün Çerikçioğlu |
|  |  |  |
| 13:00-13:50 | Chi-square test of independence | Dr. Gülnaz Nural Bekiroğlu |
| 14:00-14:50 | Chi-square test of homogenity | Dr. Gülnaz Nural Bekiroğlu |
| 15:00-15:50 | Histology LAB: Epithelial tissue | Dr. Dilek Akakın |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Wednesday** | **24 February** |  |
|  |  |  |
| 09:00-09:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 10:00-10:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 11:00-11:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
|  |  |  |
| 13:00-13:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 14:00-14:50 | Biochemistry of adipose tissue | Dr. Saime Batırel |
| 15:00-15:50 | Biochemistry of adipose tissue | Dr. Saime Batırel |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Thursday** | **25 February** |  |
|  |  |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:00-13:50 | Introduction to embryology: Spermatogenesis  | Dr. Feriha Ercan |
| 14:00-14:50 | Introduction to embryology: Spermatogenesis  | Dr. Feriha Ercan |
| 15:00-15:50 | Introduction to embryology: Ooogenesis | Dr. Dilek Akakın |
| 16:00-16:50 | Introduction to embryology: Ooogenesis | Dr. Dilek Akakın |
| 17:00-17:50 |  |  |
|  |  |  |
| **Friday** | **26 February** |  |
|  |  |  |
| 09:00-09:50 | Introduction to urogenital system | Dr. Özlem Kirazlı |
| 10:00-10:50 | Comparing risk-relative risk and Odds ratio | Dr. Gülnaz Nural Bekiroğlu |
| 11:00-11:50 | Some basic concepts for diagnosis tests | Dr. Gülnaz Nural Bekiroğlu |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 | Classification, morphology and replication of viruses and prions  | Dr. Ufuk Hasdemir |
| 16:00-16:50 | Classification, morphology and replication of viruses and prions  | Dr. Ufuk Hasdemir |
| 17:00-17:50 | Histology LAB: Connective tissue | Dr. Şule Çetinel |
|  |  |  |
|  |  |  |
|  |  |  |
| **Week-3 (01 March - 05 March 2021)** |
| **Monday** | **01 March** |  |
|  |  |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Tuesday** | **02 March** |  |
|  |  |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Fertilization and implantation | Dr. Şule Çetinel |
| 11:00-11:50 | Fertilization and implantation | Dr. Şule Çetinel |
|  |  |  |
| 13:00-13:50 | Skeletal muscle | Dr. Dilek Akakın |
| 14:00-14:50 | Cardiac muscle | Dr. Dilek Akakın |
| 15:00-15:50 | Formation of bilaminar embryo | Dr. Feriha Ercan |
| 16:00-16:50 | Smooth muscle | Dr. Dilek Akakın |
| 17:00-17:50 |  |  |
|  |  |  |
| **Wednesday** | **03 March** |  |
|  |  |  |
| 09:00-09:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 10:00-10:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 11:00-11:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
|  |  |  |
| 13:00-13:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 14:00-14:50 | Formation of trilaminar embryo | Dr. Feriha Ercan |
| 15:00-15:50 | Formation of trilaminar embryo | Dr. Feriha Ercan |
| 16:00-16:50 | Histology LAB: Specialized connective tissue | Dr. Feriha Ercan |
| 17:00-17:50 |  |  |
|  |  |  |
| **Thursday** | **04 March** |  |
|  |  |  |
| 09:00-09:50 | Physiological properties of the skeletal muscle | Dr. Alper Yıldırım |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:00-13:50 | Histology of lung, heart and vessels | Dr. Özlem Tuğçe Kaya |
| 14:00-14:50 | Histology of lung, heart and vessels | Dr. Özlem Tuğçe Kaya |
| 15:00-15:50 | Developmental genetics | Dr. Ahmet İlter Güney |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Friday** | **05 March** |  |
|  |  |  |
| 09:00-09:50 | Smooth muscle contraction | Dr. Hülya Cabadak |
| 10:00-10:50 | Growth of bacteria | Dr. Nilgün Çerikçioğlu |
| 11:00-11:50 | Bacterial metabolism | Dr. Nilgün Çerikçioğlu |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 | Formation of basic organ systems | Dr. Şule Çetinel |
| 16:00-16:50 | Formation of basic organ systems | Dr. Şule Çetinel |
| 17:00-17:50 | Fetal period | Dr. Serap Şirvancı |
|  |  |  |
|  |  |  |
| **Week-4 (08 March - 12 March 2021)** |
| **Monday** | **08 March** |  |
|  |  |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Tuesday** | **09 March** |  |
|  |  |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Congenital malformations | Dr. Şule Çetinel |
| 11:00-11:50 | Congenital malformations | Dr. Şule Çetinel |
|  |  |  |
| 13:00-13:50 | Functional structures of the heart and peripheral circulation | Dr. Alper Yıldırım |
| 14:00-14:50 | Functions of the respiratory system | Dr. Alper Yıldırım |
| 15:00-15:50 | Histology LAB: Muscle tissue  | Dr. Dilek Akakın |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Wednesday** | **10 March** |  |
|  |  |  |
| 09:00-09:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 10:00-10:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 11:00-11:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
|  |  |  |
| 13:00-13:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 14:00-14:50 | PBL-1 |  |
| 15:00-15:50 | PBL-1 |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Thursday** | **11 March** |  |
| 09:00-09:50 | Physiological properties of the smooth muscle | Dr. Yaşar İnci Alican |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:00-13:50 | Anatomy of the organs related to digestive system  | Dr. Necmettin Ömer Özdoğmuş |
| 14:00-14:50 | Histology of gastrointestinal system | Dr. Özlem Tuğçe Kaya |
| 15:00-15:50 | Histology of gastrointestinal system | Dr. Özlem Tuğçe Kaya |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Friday** | **12 March** |  |
|  |  |  |
| 09:00-09:50 | Correlation | Dr. Gülnaz Nural Bekiroğlu |
| 10:00-10:50 | Simple regression | Dr. Gülnaz Nural Bekiroğlu |
| 11:00-11:50 | PBL study time  |  |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 | PBL-2 |  |
| 16:00-16:50 | PBL-2 |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Week-5 (15 March - 19 March 2021)** |
| **Monday** | **15 March** |  |
|  |  |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Tuesday** | **16 March** |  |
|  |  |  |
| 09:00-09:50 | Bacterial genetics and bacteriophages | Dr. Ufuk Hasdemir |
| 10:00-10:50 | Bacterial genetics and bacteriophages | Dr. Ufuk Hasdemir |
| 11:00-11:50 | Physiology LAB: Muscle physiology  | Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım |
|  |  |  |
| 13:00-13:50 | Extraembryonic membranes | Dr. Serap Şirvancı |
| 14:00-14:50 | Extraembryonic membranes | Dr. Serap Şirvancı |
| 15:00-15:50 | PBL study time  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Wednesday** | **17 March** |  |
|  |  |  |
| 09:00-09:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 10:00-10:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 11:00-11:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
|  |  |  |
| 13:00-13:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 14:00-14:50 | PBL-3 |  |
| 15:00-15:50 | PBL-3 |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Thursday** | **18 March** |  |
|  |  |  |
| 09:00-09:50 | PBL study time  |  |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:00-13:50 | Composition and function of blood | Dr. Özgür Kasımay Çakır |
| 14:00-14:50 | Histology of spleen, thymus and lymph nodes | Dr. Özlem Tuğçe Kaya |
| 15:00-15:50 | Histology of spleen, thymus and lymph nodes | Dr. Özlem Tuğçe Kaya |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Friday** | **19 March** |  |
|  |  |  |
| 09:00-09:50 | Physiology of body defense system | Dr. Hızır Kurtel |
| 10:00-10:50 | Physiology of body defense system | Dr. Hızır Kurtel |
| 11:00-11:50 | Application of bacterial genetics in industry and microbiology | Dr. Ufuk Hasdemir |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 | PBL-4 |  |
| 16:00-16:50 | PBL-4 |  |
| 17:00-17:50 |  |  |
|  |  |  |
|  |  |  |
| **Week-6 (22 March - 26 March 2020)** |
| **Monday** | **22 March** |  |
|  |  |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Tuesday** | **23 March** |  |
|  |  |  |
| 09:00-09:50 | Functional structures of the digestive system | Dr. Alper Yıldırım |
| 10:00-10:50 | Principles of sterilization and disinfection | Dr. Ayşegül Karahasan |
| 11:00-11:50 | Principles of sterilization and disinfection | Dr. Ayşegül Karahasan |
|  |  |  |
| 13:00-13:50 | Introduction to respiratory system | Dr. Necmettin Ömer Özdoğmuş |
| 14:00-14:50 | Classification and general properties of medically important fungi | Dr. Nilgün Çerikçioğlu |
| 15:00-15:50 | Classification and general properties of medically important fungi | Dr. Nilgün Çerikçioğlu |
| 16:00-16:50 | Anatomy LAB: Anatomy of respiratory and circulatory system | Dr. Necmettin Ömer Özdoğmuş |
| 17:00-17:50 |  |  |
|  |  |  |
| **Wednesday** | **24 March** |  |
|  |  |  |
| 09:00-09:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 10:00-10:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 11:00-11:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
|  |  |  |
| 13:00-13:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 14:00-14:50 | Introduction to immunology | Dr. Tunç Akkoç |
| 15:00-15:50 | Cells and organs involved in immune responses | Dr. Tunç Akkoç |
| 16:00-16:50 | Embriyonic induction | Dr. Özlem Tuğçe Kaya |
| 17:00-17:50 |  |  |
|  |  |  |
| **Thursday** | **25 March** |  |
|  |  |  |
| 09:00-09:50 | Genomic organization and rearrangement of immunoglobulin genes | Dr. Sıdıka Ayşe Özer |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:00-13:50 | Classification and general properties of medically important protozoa | Dr. Mehmet Burak Aksu |
| 14:00-14:50 | Approach to evidence based medicine  | Dr. Gülnaz Nural Bekiroğlu |
| 15:00-15:50 | Statistical packages | Dr. Gülnaz Nural Bekiroğlu |
| 16:00-16:50 | Anatomy LAB: Anatomy of Digestive System | Dr. Necmettin Ömer Özdoğmuş |
| 17:00-17:50 |  |  |
|  |  |  |
| **Friday** | **26 March** |  |
|  |  |  |
| 09:00-09:50 | Interpretation of computer outputs | Dr. Gülnaz Nural Bekiroğlu |
| 10:00-10:50 | Systematic reviews and meta analysis | Dr. Gülnaz Nural Bekiroğlu |
| 11:00-11:50 | Regulation of pH | Dr. Özgür Kasımay Çakır |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 | Histology of urogenital system | Dr. Özlem Tuğçe Kaya |
| 16:00-16:50 | Histology of urogenital system | Dr. Özlem Tuğçe Kaya |
| 17:00-17:50 | Anatomy LAB: Anatomy of Urogenital System | Dr. Özlem Kirazlı |
|  |  |  |
|  |  |  |
| **Week-7 (29 March - 02 April 2021)** |
| **Monday** | **29 March** |  |
|  |  |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Tuesday** | **30 March** |  |
|  |  |  |
| 09:00-09:50 | Normal distribution and composition of body fluids | Dr. Yaşar İnci Alican |
| 10:00-10:50 | Biochemical aspect of immunoglobulins | Dr. Önder Şirikçi |
| 11:00-11:50 | Biochemical aspect of immunoglobulins | Dr. Önder Şirikçi |
|  |  |  |
| 13:00-13:50 | Microbiology LAB: Rules in microbiology laboratory and use of microscope  | Multidisciplinary Lab. |
| 14:00-14:50 | Microbiology LAB: Rules in microbiology laboratory and use of microscope  | Multidisciplinary Lab. |
| 15:00-15:50 | Microbiology LAB: Rules in microbiology laboratory and use of microscope  | Multidisciplinary Lab. |
| 16:00-16:50 | Microbiology LAB: Rules in microbiology laboratory and use of microscope  | Multidisciplinary Lab. |
| 17:00-17:50 |  |  |
|  |  |  |
| **Wednesday** | **31 March** |  |
|  |  |  |
| 09:00-09:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 10:00-10:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 11:00-11:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
|  |  |  |
| 13:00-13:50 | ICP-1 Student Research & Computer Skills  | Dr. Sinem Yıldız İnanıcı |
| 14:00-14:50 | Microbiology LAB: Bacterial growth and cultivation technique | Multidisciplinary Lab. |
| 15:00-15:50 | Microbiology LAB: Bacterial growth and cultivation technique | Multidisciplinary Lab. |
| 16:00-16:50 | Microbiology LAB: Bacterial growth and cultivation technique | Multidisciplinary Lab. |
| 17:00-17:50 | Microbiology LAB: Bacterial growth and cultivation technique | Multidisciplinary Lab. |
|  |  |  |
| **Thursday** | **01 April** |  |
|  |  |  |
| 09:00-09:50 | Genomic organization of HLA system | Dr. Pınar Ata |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:00-13:50 | Microbiology LAB: Bacterial growth and cultivation technique | Multidisciplinary Lab. |
| 14:00-14:50 | Microbiology LAB: Bacterial growth and cultivation technique | Multidisciplinary Lab. |
| 15:00-15:50 | Microbiology LAB: Bacterial growth and cultivation technique | Multidisciplinary Lab. |
| 16:00-16:50 | Microbiology LAB: Bacterial growth and cultivation technique | Multidisciplinary Lab. |
| 17:00-17:50 |  |  |
|  |  |  |
| **Friday** | **02 April** |  |
|  |  |  |
| 09:00-09:50 | General principles of renal physiology | Dr. Özgür Kasımay Çakır |
| 10:00-10:50 | General principles of renal physiology | Dr. Özgür Kasımay Çakır |
| 11:00-11:50 | The fate of substances in the body | Dr. Ahmet Suha Yalçın |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 | Biochemical aspect of cytokines | Dr. Betül Karademir Yılmaz |
| 16:00-16:50 | Biochemical aspect of cytokines | Dr. Betül Karademir Yılmaz |
| 17:00-17:50 |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **Week-8 (05 April - 09 April 2021)** |
| **Monday** | **05 April** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
| **Tuesday** | **06 April** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
| **Wednesday** | **07 April** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Thursday** | **08 April** |  |
| 09:00-09:50 | **Y1C3 THEORETICAL EXAM** |  |
| 10:00-10:50 |  |
| 11:00-11:50 |  |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
| **Friday** | **09 April** |  |
| 09:00-09:50 |  |   |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
| 16:00-16:50 |  |  |
| 17:00-17:50 |  |  |
|  |  |  |
|  |  |   |