|  |  |  |  |
| --- | --- | --- | --- |
| C:\Users\Namariel\Downloads\TıpF (1)\TıpF\TıpF-2.png  **MARMARA UNIVERSITY SCHOOL of MEDICINE** | | | |
| INTRODUCTION TO CELL AND CELLULAR REPLICATION  YEAR 1 COURSE 1  October 04 – December 03, 2021 | | | |
| **Coordinator of the Course 1.1**  Assoc. Prof. Bilgen Bilge GEÇKİNLİ | | **Coordinator of the Module 1.1**  Assist. Prof. Can ERZİK | |
| **Year 1 Coordinators**  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**.  Prof. Betül YILMAZ | | **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**  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)**  Assoc. Prof. Altuğ ÇİNÇİN & Prof. Hasan R. YANANLI | | **Dean**  Prof. Ümit Süleyman ŞEHİRLİ | |

|  |
| --- |
| MU MEDICAL SCHOOL PRE-CLINICAL EDUCATION PROGRAM |
| LEARNING OUTCOMES / COMPETENCIES   1. 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 OBJECTIVES   1. 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 PROGRAMS  Year 1, Course 1: Introduction to Cell and Cellular Replication  Year 1, Course 2: Cellular Metabolism and Transport  Year 1, Course 3: Development and Organization of Human Body  Year 1, Course 4: Introduction to Nervous System and Human Behavior  Year 2, Course 1: Cell and Tissue Injury I  Year 2, Course 2: Cell and Tissue Injury II  Year 2, Course 3: Hematopoietic System and Related Disorders  Year 2, Course 4: Musculoskeletal, Integumentary Systems and Related Disorders  Year 2, Course 5: Respiratory System and Related Disorders  Year 3, Course 1: Cardiovascular System and Related Disorders  Year 3, Course 2: Gastrointestinal System, Metabolism and Related Disorders  Year 3, Course 3: Nervous System and Related Disorders  Year 3, Course : Growth, Development, Mental Health and Related Disorders  Year 3, Course 5: Urinary and Reproductive System and Related Disorders |

|  |  |  |
| --- | --- | --- |
| INTRODUCTION TO CELL AND CELLULAR REPLICATION | | |
| AIM and LEARNING OBJECTIVES of COURSE  **Aim:** At the end of this committee, first year students will gain knowledge about structure, function and mechanisms in human biology at the molecular and cellular levels with a specific emphasis on cellular replication and genetics.  **Learning Objectives:** At the end of this committee, students will,   * Identify and describe the development, structure and function of cell and its subcomponents * Evaluate the biochemical process of the cell * Understand cell division process and related mechanisms * Describe the genetics mechanisms and protein biosynthesis * Understand genetic variation in individuals * Describe the molecular mechanisms of genetic inheritance and genetic basis of inherited disease * 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 course  Course 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 & MODULE-1 | | |
| * Biochemistry * Biophysics * Biostatistics * Child and Adolescent Psychiatry * Histology &Embryology * Pharmacology and Clinical Pharmacology | | * Medical Biology * Medical Genetics * Medical History and Ethics * Obstetrics and Gynecology * Pediatrics * Public Health |
| LECTURERS / TUTORS | | |
| Mustafa AKKİPRİK, Professor of Medical Biology  Gülnaz Nural BEKİROĞLU, Professor of Biostatistics  Gülru Pemra CÖBEK ÜNALAN, Professor of Family Medicine  Elif DAĞLI, Professor of Pediatrics  Özge EMRE, Instructor of Medical English  Kürşat EPÖZTÜRK, Assist. Professor of Immunology and Allergy  Feriha ERCAN, Professor of Histology&Embryology  Fatih EREN, Assoc. Professor of Medical Biology  Can ERZİK, Assist. Professor of Medical Biology  Bilgen Bilge GEÇKİNLİ, Assoc. Professor of Medical Genetics  Goncagül HAKLAR, Professor of Biochemistry  Nesrin KARTAL ÖZER, Professor of Biochemistry | | Pınar MEGA TİBER, Assoc. Professor of Biophysics  Cevdet NACAR, Assist. Professor of Biophysics  Gürkan SERT, Assoc. Professor of Medical History and Ethics  Erdi SÖZEN, Lecturer of Biochemistry  Önder ŞİRİKÇİ, Professor of Biochemistry  Serap ŞİRVANCI, Professor of Histology&Embryology  Yeşim TALMAN, Assoc. Professor of Basic Pharmaceutical Sciences  Ahmet Suha YALÇIN, Professor of Biochemistry  Betül YILMAZ, Assoc. Professor of Biochemistry |
| READING / STUDYING MATERIALS   * Basic Histology, Junqueira, Corneiro, 8th Ed., Lange * Başlangıcından Rönesansa Kadar Tıp Tarihi, Emine Atabek, Şefik Görkey * Biochemistry, Stryer, 4th Ed., Freeman * Biochemistry, Zubay, 3rd Ed., WCB * Color Textbook of Histology, Gatrner, Hiatt, WB Saunders * Harper's Biochemistry, Murray, Granner, 23rd Ed., Lange * Histology: A Text and Atlas, Ross, Romwell, 3rd, Lippincott * History of Medicine Ders Notları, Şefik Görkey * Lehninger Principles of Biochemistry, Nelson, Cox, 3rd, Worth * Medicine: An Illustrated History, Albert S. Lyons, R. Joseph Petrucelli, * Molecular Biology of the Cell, Alberts, Bray, 3rd Ed., Garland * Physics, Giancoli, 4th Ed., Prentice Hall * The Cell: A Molecular Approach, Cooper, 2nd Ed., ASM Press * Türk Tıp Tarihi, Bedi Şeyhsuvaroğlu, Gönül Cantay | | |

|  |  |  |  |
| --- | --- | --- | --- |
| SUMMARY OF THE COURSE | | | |
| **Discipline** | **Lecture & Group Discussion** | **Multidisciplinary Lab. & Clinical Skills Lab. Practice** | Total |
| Biochemistry | 27 | 8 | 35 |
| Biophysics | 5 |  | 5 |
| Biostatistics | 6 |  | 6 |
| Chemistry | 20 |  | 20 |
| Histology and Embryology | 7 | 4 | 11 |
| Medical Biology | 34 |  | 34 |
| Medical Genetics | 1 |  | 1 |
| Medical History and Ethics | 12 |  | 12 |
| Pediatrics | 2 |  | 2 |
| Subtotal | 114 | 12 | 126 |
| PBL Module | 8 |  | 8 |
| TOTAL | 122 | 12 | 134 |
| ICP-1: First Aid & Communication Skills Courses | 9 | 9 | 18 |
| ICP-1: Computer Skills (Students’ Research Activity) | 6 | 6 | 12 |
| Medical English | 10 |  | 10 |
| **TOTAL** | **147** | **27** | **174** |

|  |  |  |
| --- | --- | --- |
| **NINE WEEK PROGRAM** | | |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week-1 (04 October - 08 October 2021)** | | |
| **Monday** | **04 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | **D-1 AÇILIŞ** |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 | Campus Orientation |  |
| 14:40-15:30 | Campus Orientation |  |
| 15:40-16:30 | Campus Orientation |  |
| 16:40-17:30 | Campus Orientation |  |
| 17:40-18:30 | Campus Orientation |  |
|  |  |  |
| **Tuesday** | **05 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Introduction to the course | Dr. Bilgen Bilge Geçkinli |
| 10:40-11:30 | Origin of life | Dr. Can Erzik |
| 11:40-12:30 | Molecular recognition process | Dr. Can Erzik |
|  |  |  |
| 13:40-14:30 | The impact of Haydarpaşa Campus in Turkish Medical History | Dr. Gürkan Sert |
| 14:40-15:30 | Nucleic acids | Dr. Mustafa Akkiprik |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Wednesday** | **06 October** |  |
| 08:40-09:30 | Turning points in History of Medicine | Dr. Gürkan Sert |
| 09:40-10:30 | Turning points in History of Medicine | Dr. Gürkan Sert |
| 10:40-11:30 | Medical English | Dr. Özge Emre |
| 11:40-12:30 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:40-14:30 | Cellular organisation of life | Dr. Can Erzik |
| 14:40-15:30 | Cellular organisation of life | Dr. Can Erzik |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **07 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Structure of nucleic acids | Dr. Erdi Sözen |
| 10:40-11:30 | Nucleus and nuclear genome | Dr. Fatih Eren |
| 11:40-12:30 | Genes and heredity | Dr. Can Erzik |
|  |  |  |
| 13:40-14:30 | Introduction to ICP (Introduction to Clinical Practice) | Dr. Gülru Pemra Ünalan |
| 14:40-15:30 | Programme of ICP-1 | Dr. Gülru Pemra Ünalan |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **08 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | PBL Orientation | Dr. Can Erzik |
| 11:40-12:30 | PBL Orientation | Dr. Can Erzik |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | History of Anatomy | Dr. Can Erzik |
| 15:40-16:30 | History of Anatomy | Dr. Can Erzik |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Week-2 (11 October - 15 October 2021)** | | |
| **Monday** | **11 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Introduction to organic chemistry | Dr. Yeşim Talman |
| 11:40-12:30 | Chemical compounds | Dr. Yeşim Talman |
|  |  |  |
| 13:40-14:30 | Atoms and atomic theory, atomic properties and periodic table | Dr. Yeşim Talman |
| 14:40-15:30 | Chemical bonds: ionic and covalent | Dr. Yeşim Talman |
| 15:40-16:30 | Microscope | Dr. Serap Şirvancı |
| 16:40-17:30 | Microscope | Dr. Serap Şirvancı |
| 17:40-18:30 |  |  |
|  |  |  |
| **Tuesday** | **12 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Chemical reactions and equilibrium | Dr. Yeşim Talman |
| 11:40-12:30 | Chemical reactions and equilibrium | Dr. Yeşim Talman |
|  |  |  |
| 13:40-14:30 | Histotechniques | Dr. Serap Şirvancı |
| 14:40-15:30 | Biomolecules and water | Dr. Önder Şirikçi |
| 15:40-16:30 | Biomolecules and water | Dr. Önder Şirikçi |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Wednesday** | **13 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Cell division kinetics | Dr. Mustafa Akkiprik |
| 10:40-11:30 | Medical English | Dr. Özge Emre |
| 11:40-12:30 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:40-14:30 | Solubility, pH and buffers | Dr. Önder Şirikçi |
| 14:40-15:30 | Solubility, pH and buffers | Dr. Önder Şirikçi |
| 15:40-16:30 | Acids and bases | Dr. Yeşim Talman |
| 16:40-17:30 | Acids and bases | Dr. Yeşim Talman |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **14 October** |  |
| 08:40-09:30 | Amino acids | Dr. Önder Şirikçi |
| 09:40-10:30 | Amino acids | Dr. Önder Şirikçi |
| 10:40-11:30 | History of Physiology | Dr. Kürşat Epöztürk |
| 11:40-12:30 | Evolution of the concept of infection | Dr. Kürşat Epöztürk |
|  |  |  |
| 13:40-14:30 | Cell cycle | Dr. Mustafa Akkiprik |
| 14:40-15:30 | Chemical kinetics and reaction mechanisms | Dr. Yeşim Talman |
| 15:40-16:30 | Chemical kinetics and reaction mechanisms | Dr. Yeşim Talman |
| 16:40-17:30 | ICP-1 Research: Access to scientific information & internet usage | ICP Lab |
| 17:40-18:30 | ICP-1 Research: Access to scientific information & internet usage | ICP Lab |
|  |  |  |
| **Friday** | **15 October** |  |
| 08:40-09:30 | ICP-1 Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 09:40-10:30 | ICP-1 Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 10:40-11:30 | ICP-1 Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 11:40-12:30 | ICP-1 Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | History of surgery | Dr. Kürşat Epöztürk |
| 15:40-16:30 | DNA replication | Dr. Fatih Eren |
| 16:40-17:30 | DNA replication | Dr. Fatih Eren |
| 17:40-18:30 |  |  |
|  |  |  |
| **Week-3 (18 October - 22 October 2021)** | | |
| **Monday** | **18 October** |  |
| 08:40-09:30 | PBL Orientation |  |
| 09:40-10:30 | PBL Orientation |  |
| 10:40-11:30 | PBL Orientation |  |
| 11:40-12:30 | PBL Orientation |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **19 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Structure of carbohydrates | Dr. Önder Şirikçi |
| 11:40-12:30 | Structure of carbohydrates | Dr. Önder Şirikçi |
|  |  |  |
| 13:40-14:30 | RNA synthesis and processing | Dr. Fatih Eren |
| 14:40-15:30 | RNA synthesis and processing | Dr. Fatih Eren |
| 15:40-16:30 | Thermochemistry (chemical energetics) | Dr. Yeşim Talman |
| 16:40-17:30 | Thermochemistry (chemical energetics) | Dr. Yeşim Talman |
| 17:40-18:30 |  |  |
|  |  |  |
| **Wednesday** | **20 October** |  |
| 08:40-09:30 | **Y2C1 EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |  |
| 13:40-14:30 | Protein synthesis | Dr. Fatih Eren |
| 14:40-15:30 | Protein synthesis | Dr. Fatih Eren |
| 15:40-16:30 | Solubility and complex ion equilibrium | Dr. Yeşim Talman |
| 16:40-17:30 | Solubility and complex ion equilibrium | Dr. Yeşim Talman |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **21 October** |  |
| 08:40-09:30 | **Y3C1 EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |  |
| 13:40-14:30 | Structure of lipids | Dr. Goncagül Haklar |
| 14:40-15:30 | Structure of lipids | Dr. Goncagül Haklar |
| 15:40-16:30 | Cellular organels and inclusions at LM and EM level | Dr. Feriha Ercan |
| 16:40-17:30 | Cellular organels and inclusions at LM and EM level | Dr. Feriha Ercan |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **22 October** |  |
| 08:40-09:30 | ICP-1 Communication Skills and Introduction to Medical Interview | ICP Lab. |
| 09:40-10:30 | ICP-1 Communication Skills and Introduction to Medical Interview | ICP Lab. |
| 10:40-11:30 | ICP-1 Communication Skills and Introduction to Medical Interview | ICP Lab. |
| 11:40-12:30 | ICP-1 Communication Skills and Introduction to Medical Interview | ICP Lab. |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Packaging chromosomal DNA | Dr. Fatih Eren |
| 15:40-16:30 | Protein structure and function-1 | Dr. Betül Yılmaz |
| 16:40-17:30 | Protein structure and function-1 | Dr. Betül Yılmaz |
| 17:40-18:30 |  |  |
|  |  |  |
| **Week-4 (25 October - 29 October 2021)** | | |
| **Monday** | **25 October** |  |
| 08:40-09:30 | What is statistics and biostatistics? | Dr. Gülnaz Nural Bekiroğlu |
| 09:40-10:30 | Statistics in medical research | Dr. Gülnaz Nural Bekiroğlu |
| 10:40-11:30 | Electrochemistry: oxidation and reduction | Dr. Yeşim Talman |
| 11:40-12:30 | Electrochemistry: oxidation and reduction | Dr. Yeşim Talman |
|  |  |  |
| 13:40-14:30 | ICP-1 Research: Discussion and preparation of study subjects | ICP Lab |
| 14:40-15:30 | ICP-1 Research: Discussion and preparation of study subjects | ICP Lab |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40- 19:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **26 October** |  |
| 08:40-09:30 | Mitosis | Dr. Mustafa Akkiprik |
| 09:40-10:30 | Meiosis | Dr. Mustafa Akkiprik |
| 10:40-11:30 | Protein structure and function-2 | Dr. Betül Yılmaz |
| 11:40-12:30 | Protein structure and function-2 | Dr. Betül Yılmaz |
|  |  |  |
| 13:40-14:30 | Nucleus and cell division | Dr. Feriha Ercan |
| 14:40-15:30 | Nucleus and cell division | Dr. Feriha Ercan |
| 15:40-16:30 | History of Medicine in Seljukid and Ottoman Ages | Dr. Kürşat Epöztürk |
| 16:40-17:30 | History of Medicine in Turkish Republic | Dr. Gürkan Sert |
| 17:40-18:30 |  |  |
|  |  |  |
| **Wednesday** | **27 October** |  |
| 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 | Introduction to biophysics – I | Dr. Pınar Mega Tiber |
| 14:40-15:30 | Introduction to biophysics – I | Dr. Pınar Mega Tiber |
| 15:40-16:30 | Introduction to genetics | Dr. Can Erzik |
| 16:40-17:30 | Fundamentals to Mendelian genetics | Dr. Can Erzik |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **28 October** |  |
| 08:40-09:30 | Information content of DNA | Dr. Cevdet Nacar |
| 09:40-10:30 | Viruses, plasmids, transposable genetic elements | Dr. Mustafa Akkiprik |
| 10:40-11:30 | Recombination | Dr. Can Erzik |
| 11:40-12:30 | Population genetics | Dr. Can Erzik |
|  |  |  |
|  |  |  |
| 13:40-14:30 | **TATİL** |  |
| 14:40-15:30 |  |
| 15:40-16:30 |  |
| 16:40-17:30 |  |
| 17:40-18:30 |  |
|  |  |  |
| **Friday** | **29 October** |  |
| 08:40-09:30 | **29 EKİM CUMHURİYET BAYRAMI** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |
| 13:40-14:30 |  |
| 14:40-15:30 |  |
| 15:40-16:30 |  |
| 16:40-17:30 |  |
| 17:40-18:30 |  |
|  |  |  |
| **Week-5 (01 November - 05 November 2021)** | | |
| **Monday** | **01 November** |  |
|  |  |  |
| 08:40-09:30 | Designing research | Dr. Gülnaz Nural Bekiroğlu |
| 09:40-10:30 | Types of data | Dr. Gülnaz Nural Bekiroğlu |
| 10:40-11:30 | Structure of proteins | Dr. Yeşim Talman |
| 11:40-12:30 | High energy compounds | Dr. Yeşim Talman |
|  |  |  |
| 13:40-14:30 | History of human experimentation | Dr. Gürkan Sert |
| 14:40-15:30 | History of medical professionalism | Dr. Gürkan Sert |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
| **Tuesday** | **02 November** |  |
|  |  |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Introduction to biophysics – II | Dr. Pınar Mega Tiber |
| 11:40-12:30 | Introduction to biophysics – II | Dr. Pınar Mega Tiber |
|  |  |  |
| 13:40-14:30 | Histology LAB: Cell types - Group A | Multidisciplinary Lab. |
| 14:40-15:30 | Histology LAB: Cell types - Group A | Multidisciplinary Lab. |
| 15:40-16:30 | Histology LAB: Cell types - Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Histology LAB: Cell types - Group B | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Wednesday** | **03 November** |  |
| 08:40-09:30 | Enzymes: Introduction | Dr. Ahmet Suha Yalçın |
| 09:40-10:30 | Enzymes: Introduction | Dr. Ahmet Suha Yalçın |
| 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-1 |  |
| 15:40-16:30 | PBL-1 |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **04 November** |  |
| 08:40-09:30 | Histology LAB: Cell types - Group C | Multidisciplinary Lab. |
| 09:40-10:30 | Histology LAB: Cell types - Group C | Multidisciplinary Lab. |
| 10:40-11:30 | Histology LAB: Cell types - Group D | Multidisciplinary Lab. |
| 11:40-12:30 | Histology LAB: Cell types - Group D | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 | Enzymes: Mechanism of action | Dr. Ahmet Suha Yalçın |
| 14:40-15:30 | Enzymes: Mechanism of action | Dr. Ahmet Suha Yalçın |
| 15:40-16:30 | Mutations and polymorphisms | Dr. Fatih Eren |
| 16:40-17:30 | DNA Repair | Dr. Mustafa Akkiprik |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **05 November** |  |
| 08:40-09:30 | ICP-1 Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 09:40-10:30 | ICP-1 Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 10:40-11:30 | ICP-1 Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 11:40-12:30 | ICP-1 Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | PBL Study Time |  |
| 15:40-16:30 | PBL-2 |  |
| 16:40-17:30 | PBL-2 |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Week-6 (08 November - 12 November 2021)** | | |
| **Monday** | **08 November** |  |
| 08:40-09:30 | Enzymes: Regulation | Dr. Ahmet Suha Yalçın |
| 09:40-10:30 | Enzymes: Regulation | Dr. Ahmet Suha Yalçın |
| 10:40-11:30 | Describing the data with graphics | Dr. Gülnaz Nural Bekiroğlu |
| 11:40-12:30 | Describing the data with numbers | Dr. Gülnaz Nural Bekiroğlu |
|  |  |  |
| 13:40-14:30 | Structure of lipids | Dr. Yeşim Talman |
| 14:40-15:30 | Structure of carbohydrates | Dr. Yeşim Talman |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
|  |  |  |
|  |  |  |
| **Tuesday** | **09 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Chromosome structure, function and anomalies | Dr. Can Erzik |
| 10:40-11:30 | Chromosome structure, function and anomalies | Dr. Can Erzik |
| 11:40-12:30 | Cell death and molecular mechanisms | Dr. Mustafa Akkiprik |
|  |  |  |
| 13:40-14:30 | Histology LAB: Cell division - Group A | Multidisciplinary Lab. |
| 14:40-15:30 | Histology LAB: Cell division - Group A | Multidisciplinary Lab. |
| 15:40-16:30 | Histology LAB: Cell division - Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Histology LAB: Cell division - Group B | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Wednesday** | **10 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | **10 KASIM ATATÜRK'Ü ANMA TÖRENİ** |  |
| 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 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **11 November** |  |
| 08:40-09:30 | Histology LAB: Cell division - Group C | Multidisciplinary Lab. |
| 09:40-10:30 | Histology LAB: Cell division - Group C | Multidisciplinary Lab. |
| 10:40-11:30 | Histology LAB: Cell division - Group D | Multidisciplinary Lab. |
| 11:40-12:30 | Histology LAB: Cell division - Group D | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 | Posttranscriptional and posttranslational modifications | Dr. Ahmet Suha Yalçın |
| 14:40-15:30 | Posttranscriptional and posttranslational modifications | Dr. Ahmet Suha Yalçın |
| 15:40-16:30 | Cellular effects of tobacco use | Dr. Elif Dağlı |
| 16:40-17:30 | Cellular effects of tobacco use | Dr. Elif Dağlı |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **12 November** |  |
| 08:40-09:30 | ICP-1 Communication Skills and Introduction to Medical Interview | ICP Lab. |
| 09:40-10:30 | ICP-1 Communication Skills and Introduction to Medical Interview | ICP Lab. |
| 10:40-11:30 | ICP-1 Communication Skills and Introduction to Medical Interview | ICP Lab. |
| 11:40-12:30 | ICP-1 Communication Skills and Introduction to Medical Interview | ICP Lab. |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | PBL Study Time |  |
| 15:40-16:30 | PBL-4 |  |
| 16:40-17:30 | PBL-4 |  |
| 17:40-18:30 |  |  |
|  |  |  |
|  |  |  |
| **Week-7 (15 November - 19 November 2021)** | | |
| **Monday** | **15 November** |  |
| 08:40-09:30 | Biochemistry LAB: Spectrophotometer - Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Biochemistry LAB: Spectrophotometer - Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Biochemistry LAB: Spectrophotometer - Group A | Multidisciplinary Lab. |
| 11:40-12:30 | Biochemistry LAB: Spectrophotometer - Group A | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | ICP-1 Research and Computer Skills- online | Dr. Sinem Yıldız İnanıcı |
| 15:40-16:30 | ICP-1 Research and Computer Skills- online | Dr. Sinem Yıldız İnanıcı |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
| **Tuesday** | **16 November** |  |
| 08:40-09:30 | Regulation of gene expression | Dr. Fatih Eren |
| 09:40-10:30 | Regulation of gene expression | Dr. Fatih Eren |
| 10:40-11:30 | Molecular transmission of genetic information | Dr. Erdi Sözen |
| 11:40-12:30 | Molecular transmission of genetic information | Dr. Erdi Sözen |
|  |  |  |
| 13:40-14:30 | Biochemistry LAB: Spectrophotometer - Group B | Multidisciplinary Lab. |
| 14:40-15:30 | Biochemistry LAB: Spectrophotometer - Group B | Multidisciplinary Lab. |
| 15:40-16:30 | Biochemistry LAB: Spectrophotometer - Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Biochemistry LAB: Spectrophotometer - Group B | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Wednesday** | **17 November** |  |
|  |  |  |
| 08:40-09:30 | ICP-1: First Aid Course / Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 09:40-10:30 | ICP-1: First Aid Course / Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 10:40-11:30 | ICP-1: First Aid Course / Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 11:40-12:30 | ICP-1: First Aid Course / Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
|  |  |  |
| 13:40-14:30 | ICP-1: First Aid Course / Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 14:40-15:30 | ICP-1: First Aid Course / Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 15:40-16:30 | ICP-1: First Aid Course / Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 16:40-17:30 | ICP-1: First Aid Course / Medical asepsis and precautions to take in healthcare facilities | ICP Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **18 November** |  |
|  |  |  |
| 08:40-09:30 | ICP-1: First-Aid Course |  |
| 09:40-10:30 | ICP-1: First-Aid Course |  |
| 10:40-11:30 | ICP-1: First-Aid Course |  |
| 11:40-12:30 | ICP-1: First-Aid Course |  |
|  |  |  |
| 13:40-14:30 | ICP-1: First-Aid Course |  |
| 14:40-15:30 | ICP-1: First-Aid Course |  |
| 15:40-16:30 | ICP-1: First-Aid Course |  |
| 16:40-17:30 | ICP-1: First-Aid Course |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **19 November** |  |
|  |  |  |
| 08:40-09:30 | ICP-1: First-Aid Course |  |
| 09:40-10:30 | ICP-1: First-Aid Course |  |
| 10:40-11:30 | ICP-1: First-Aid Course |  |
| 11:40-12:30 | ICP-1: First-Aid Course |  |
|  |  |  |
| 13:40-14:30 | ICP-1: First-Aid Course |  |
| 14:40-15:30 | ICP-1: First-Aid Course |  |
| 15:40-16:30 | ICP-1: First-Aid Course |  |
| 16:40-17:30 | ICP-1: First-Aid Course |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Week-8 (22 November - 26 November 2021)** | | |
| **Monday** | **22 November** |  |
| 08:40-09:30 | Biochemistry LAB: Spectrophotometer - Group C | Multidisciplinary Lab. |
| 09:40-10:30 | Biochemistry LAB: Spectrophotometer - Group C | Multidisciplinary Lab. |
| 10:40-11:30 | Biochemistry LAB: Spectrophotometer - Group C | Multidisciplinary Lab. |
| 11:40-12:30 | Biochemistry LAB: Spectrophotometer - Group C | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | ICP-1 Research and Computer Skills- online | Dr. Mustafa Akkiprik |
| 15:40-16:30 | ICP-1 Research and Computer Skills- online | Dr. Mustafa Akkiprik |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **23 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Molecular basis of disease | Dr. Mustafa Akkiprik |
| 11:40-12:30 | Cytogenetics | Dr. Bilgen Bilge Geçkinli |
|  |  |  |
| 13:40-14:30 | Biochemistry LAB: Spectrophotometer - Group D | Multidisciplinary Lab. |
| 14:40-15:30 | Biochemistry LAB: Spectrophotometer - Group D | Multidisciplinary Lab. |
| 15:40-16:30 | Biochemistry LAB: Spectrophotometer - Group D | Multidisciplinary Lab. |
| 16:40-17:30 | Biochemistry LAB: Spectrophotometer - Group D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Wednesday** | **24 November** |  |
| 08:40-09:30 | Detection of nucleic acids | Dr. Mustafa Akkiprik |
| 09:40-10:30 | Tools of cell biology | Dr. Mustafa Akkiprik |
| 10:40-11:30 | Medical English | Dr. Özge Emre |
| 11:40-12:30 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:40-14:30 | Biochemistry LAB: Urease - Group A | Multidisciplinary Lab. |
| 14:40-15:30 | Biochemistry LAB: Urease - Group A | Multidisciplinary Lab. |
| 15:40-16:30 | Biochemistry LAB: Urease - Group A | Multidisciplinary Lab. |
| 16:40-17:30 | Biochemistry LAB: Urease - Group A | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **25 November** |  |
| 08:40-09:30 | Biochemistry LAB: Urease - Group B | Multidisciplinary Lab. |
| 09:40-10:30 | Biochemistry LAB: Urease - Group B | Multidisciplinary Lab. |
| 10:40-11:30 | Biochemistry LAB: Urease - Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Biochemistry LAB: Urease - Group B | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 | Multifactorial inheritance | Dr. Can Erzik |
| 14:40-15:30 | Mechanism of signal transduction | Dr. Erdi Sözen |
| 15:40-16:30 | Mechanism of signal transduction | Dr. Erdi Sözen |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **26 November** |  |
| 08:40-09:30 | Biochemistry LAB: Urease - Group C | Multidisciplinary Lab. |
| 09:40-10:30 | Biochemistry LAB: Urease - Group C | Multidisciplinary Lab. |
| 10:40-11:30 | Biochemistry LAB: Urease - Group C | Multidisciplinary Lab. |
| 11:40-12:30 | Biochemistry LAB: Urease - Group C | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Biochemistry LAB: Urease - Group D | Multidisciplinary Lab. |
| 15:40-16:30 | Biochemistry LAB: Urease - Group D | Multidisciplinary Lab. |
| 16:40-17:30 | Biochemistry LAB: Urease - Group D | Multidisciplinary Lab. |
| 17:40-18:30 | Biochemistry LAB: Urease - Group D | Multidisciplinary Lab. |
|  |  |  |
| **Week-9 (29 November - 03 December 2021)** | | |
| **Monday** | **29 November** |  |
|  |  |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
| **Tuesday** | **30 November** |  |
|  |  |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Wednesday** | **01 December** |  |
|  |  |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **02 December** |  |
|  |  |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **03 December** |  |
|  |  |  |
| 08:40-09:30 | **Y1C1 EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |