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| 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 03 – December 02, 2022  |
| **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.**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 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 |

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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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| 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
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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 & 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 BiologyGülnaz Nural BEKİROĞLU, Professor of BiostatisticsGülru Pemra CÖBEK ÜNALAN, Professor of Family Medicine Özge EMRE, Instructor of Medical EnglishFeriha ERCAN, Professor of Histology&EmbryologyFatih EREN, Professor of Medical Biology Can ERZİK, Assist. Professor of Medical BiologyBilgen Bilge GEÇKİNLİ, Assoc. Professor of Medical GeneticsMehmet Ali GÜLPINAR, Professor of Medical EducationGoncagül HAKLAR, Professor of Biochemistry | Pınar MEGA TİBER, Assoc. Professor of BiophysicsCevdet NACAR, Assist. Professor of BiophysicsOrhan ÖNDER, Lect. of Medical History and Ethicsİrem PEKER EYÜBOĞLU, Assist.Professor of Medical BiologyGürkan SERT, Assoc. Professor of Medical History and EthicsErdi SÖZEN, Lecturer of BiochemistryÖnder ŞİRİKÇİ, Professor of BiochemistrySerap ŞİRVANCI, Professor of Histology&EmbryologyYeşim TALMAN, Assoc. Professor of Basic Pharmaceutical SciencesAhmet Suha YALÇIN, Professor of Biochemistry Sinem YILDIZ İNANICI, Assist. Professor of Medical EducationBetül YILMAZ, 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
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| 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** |

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| **NINE WEEK PROGRAM** |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week-1 (03 October - 07 October 2022)** |
| **Monday** | **03 October** |  |
| 08:40-09:30 | **D-1 AÇILIŞ** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 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 |  |
|  |  |  |
| **Tuesday** | **04 October** |  |
| 08:40-09:30 | Introduction to the course | Dr.Erdi Sözen |
| 09:40-10:30 | Origin of life | Dr. Can Erzik |
| 10:40-11:30 | Molecular recognition process | Dr. Can Erzik |
| 11:40-12:30 | Introduction to history of medicine | Dr. Gürkan Sert |
|  |  |  |
| 13:40-14:30 | Biomolecules and water | Dr. Önder Şirikçi |
| 14:40-15:30 | Biomolecules and water | Dr. Önder Şirikçi |
| 15:40-16:30 | Introduction to organic chemistry | Dr. Yeşim Talman |
| 16:40-17:30 |  |  |
|  |  |  |
| **Wednesday** | **05 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 | Chemical compounds | Dr. Yeşim Talman |
| 14:40-15:30 | Cellular organisation of life | Dr. İrem Peker Eyüboğlu |
| 15:40-16:30 | Cellular organisation of life | Dr. İrem Peker Eyüboğlu |
| 16:40-17:30 |  |  |
|  |  |  |
| **Thursday** | **06 October** |  |
| 08:40-09:30 | Nucleic acids | Dr. Mustafa Akkiprik |
| 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. İrem Peker Eyüboğlu |
|  |  |  |
| 13:40-14:30 | Introduction to ICP (Introduction to Clinical Practice) | Dr. Gülru Pemra Ünalan |
| 14:40-15:30 | Program flow of ICP-1  | Dr. Sinem Yıldız İnanıcı |
| 16:40-17:30 |  |  |
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| **Friday** | **07 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | History of Anatomy | Dr. Can Erzik |
| 10:40-11:30 | Introduction to Student Research and Computer Skills | Dr. Can Erzik |
| 11:40-12:30 | Introduction to Student Research and Computer Skills | Dr. Can Erzik |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Microscope | Dr. Serap Şirvancı |
| 15:40-16:30 | Microscope | Dr. Serap Şirvancı |
| 16:40-17:30 |  |  |
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| **Week-2 (10 October - 14 October 2022)** |
| **Monday** | **10 October** |  |
|  |  |  |
| 09:40-10:30 | PBL Orientation |  |
| 10:40-11:30 | PBL Orientation |  |
| 11:40-12:30 | PBL Orientation |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Tuesday** | **11 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Histotechniques | Dr. Serap Şirvancı |
| 10:40-11:30 | History of Physiology | Dr.Orhan Önder |
| 11:40-12:30 | History of Medicine in Seljukid and Ottoman Ages | Dr.Orhan Önder |
|  |  |  |
| 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 |  |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **12 October** |  |
| 08:40-09:30 | Solubility, pH and buffers | Dr. Önder Şirikçi |
| 09:40-10:30 | Solubility, pH and buffers | Dr. Önder Şirikçi |
| 10:40-11:30 | Medical English | Dr. Özge Emre |
| 11:40-12:30 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:40-14:30 | Cell division kinetics | Dr. Mustafa Akkiprik |
| 14:40-15:30 | Chemical reactions and equilibrium | Dr. Yeşim Talman |
| 15:40-16:30 | Chemical reactions and equilibrium | Dr. Yeşim Talman |
| 16:40-17:30 |  |  |
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| **Thursday** | **13 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Acids and bases | Dr. Yeşim Talman |
| 10:40-11:30 | Acids and bases | Dr. Yeşim Talman |
| 11:40-12:30 | Cell cycle | Dr. Mustafa Akkiprik |
|  |  |  |
| 13:40-14:30 | Amino acids | Dr. Önder Şirikçi |
| 14:40-15:30 | Amino acids | Dr. Önder Şirikçi |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Friday** | **14 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Introduction to Student Research and Computer Skills | Dr. Can Erzik |
| 11:40-12:30 | Introduction to Student Research and Computer Skills | Dr. Can Erzik |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Structure of carbohydrates | Dr. Önder Şirikçi |
| 15:40-16:30 | Structure of carbohydrates | Dr. Önder Şirikçi |
| 16:40-17:30 |  |  |
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| **Week-3 (17 October - 21 October 2022)** |
| **Monday** | **17 October** |  |
| 08:40-09:30 | Evolution of the concept of infection | Dr.Orhan Önder |
| 09:40-10:30 | History of surgery  | Dr.Orhan Önder |
| 10:40-11:30 | Mitosis | Dr. İrem Peker Eyüboğlu |
| 11:40-12:30 | Meiosis | Dr. İrem Peker Eyüboğlu |
|  |  |  |
| 13:40-14:30 | Chemical kinetics and reaction mechanisms | Dr. Yeşim Talman |
| 14:40-15:30 | Chemical kinetics and reaction mechanisms | Dr. Yeşim Talman |
| 15:40-16:30 | Elective course  |  |
| 16:40-17:30 | Elective course  |  |
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| **Tuesday** | **18 October** |  |
| 08:40-09:30 | DNA replication | Dr. İrem Peker Eyüboğlu |
| 09:40-10:30 | DNA replication | Dr. İrem Peker Eyüboğlu |
| 10:40-11:30 | Cellular organels and inclusions at LM and EM level | Dr. Feriha Ercan |
| 11:40-12:30 | Cellular organels and inclusions at LM and EM level | Dr. Feriha Ercan |
|  |  |  |
| 13:40-14:30 | Thermochemistry (chemical energetics) | Dr. Yeşim Talman |
| 14:40-15:30 | Thermochemistry (chemical energetics) | Dr. Yeşim Talman |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **19 October** |  |
| 08:40-09:30 | **Y2C1 SINAV** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |  |
| 13:40-14:30 | RNA synthesis and processing | Dr. Fatih Eren |
| 14:40-15:30 | Solubility and complex ion equilibrium | Dr. Yeşim Talman |
| 15:40-16:30 | Solubility and complex ion equilibrium | Dr. Yeşim Talman |
| 16:40-17:30 |  |  |
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| **Thursday** | **20 October** |  |
| 08:40-09:30 | **Y3C1 SINAV** |  |
| 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 | Structure of lipids | Dr. Goncagül Haklar |
| 16:40-17:30 | Structure of lipids | Dr. Goncagül Haklar |
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| **Friday** | **21 October** |  |
| 08:40-09:30 | Communication Skills and Introduction to Medical Interview (Communication variables)/Clinical Skills Laboratory (CSL) Activities | Dr. Sinem Yıldız İnanıcı |
| 09:40-10:30 | Communication Skills and Introduction to Medical Interview (Communication variables)/Clinical Skills Laboratory (CSL) Activities | Dr. Sinem Yıldız İnanıcı |
| 10:40-11:30 | Communication Skills and Introduction to Medical Interview (Communication variables) | Dr. Mehmet Ali Gülpınar |
| 11:40-12:30 | Communication Skills and Introduction to Medical Interview (Communication variables) | Dr. Mehmet Ali Gülpınar |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Protein structure and function-1 | Dr. Betül Yılmaz |
| 15:40-16:30 | Protein structure and function-1 | Dr. Betül Yılmaz |
| 16:40-17:30 |  |  |
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| **Week-4 (24 October - 28 October 2022)** |
| **Monday** | **24 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 | Nucleus and cell division | Dr. Feriha Ercan |
| 14:40-15:30 | Nucleus and cell division | Dr. Feriha Ercan |
| 15:40-16:30 | Elective course  |  |
| 16:40-17:30 | Elective course  |  |
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| **Tuesday** | **25 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | History of Medicine in Turkish Republic | Dr. Gürkan Sert |
| 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 | Protein synthesis | Dr. Fatih Eren |
| 14:40-15:30 | Protein synthesis | Dr. Fatih Eren |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **26 October** |  |
| 08:40-09:30 | Introduction to genetics | Dr. Can Erzik |
| 09:40-10:30 | Factors affecting single-gene inheritance patterns | Dr. Can Erzik |
| 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  | Dr. Pınar Mega Tiber |
| 14:40-15:30 | Fundamentals of biomechanics | Dr. Pınar Mega Tiber |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Thursday** | **27 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Structure of proteins | Dr. Yeşim Talman |
| 10:40-11:30 | High energy compounds | Dr. Yeşim Talman |
| 11:40-12:30 | Information content of DNA | Dr. Cevdet Nacar |
|  |  |  |
| 13:40-14:30 | Viruses, plasmids, transposable genetic elements | Dr. Mustafa Akkiprik |
| 14:40-15:30 | Designing research | Dr. Gülnaz Nural Bekiroğlu |
| 15:40-16:30 | Types of data | Dr. Gülnaz Nural Bekiroğlu |
| 16:40-17:30 |  |  |
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| **Friday** | **28 October** |  |
| 08:40-09:30 | Communication Skills and Introduction to Medical Interview (Communication variables)/Clinical Skills Laboratory (CSL) Activities | Dr. Sinem Yıldız İnanıcı |
| 09:40-10:30 | Communication Skills and Introduction to Medical Interview (Communication variables)/Clinical Skills Laboratory (CSL) Activities | Dr. Sinem Yıldız İnanıcı |
| 10:40-11:30 | Communication Skills and Introduction to Medical Interview (Effective Communication & Communication Barriers) | Dr. Mehmet Ali Gülpınar |
| 11:40-12:30 | Communication Skills and Introduction to Medical Interview (Effective Communication & Communication Barriers) | Dr. Mehmet Ali Gülpınar |
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| 13:40-14:30 | **TATİL** |  |
| 14:40-15:30 |  |
| 15:40-16:30 |  |
| 16:40-17:30 |  |
| 17:40-18:30 |  |
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| **Week-5 (31 October - 04 November 2022)** |
| **Monday** | **31 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Recombination | Dr. Can Erzik |
| 11:40-12:30 | Genetic variation in populations | Dr. Can Erzik |
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| 13:40-14:30 | Structure of lipids | Dr. Yeşim Talman |
| 14:40-15:30 | Structure of carbohydrates | Dr. Yeşim Talman |
| 15:40-16:30 | Elective course  |  |
| 16:40-17:30 | Elective course  |  |
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| **Tuesday** | **01 November** |  |
| 08:40-09:30 | History of human experimentation  | Dr. Gürkan Sert |
| 09:40-10:30 | History of medical professionalism | Dr. Gürkan Sert |
| 10:40-11:30 | Fundamentals of biomechanics | Dr. Pınar Mega Tiber |
| 11:40-12:30 | Energy, heat, work and power of the body | Dr. Pınar Mega Tiber |
|  |  |  |
| 13:40-14:30 | PBL Study Time |  |
| 14:40-15:30 | PBL-1 |  |
| 15:40-16:30 | PBL-1 |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Wednesday** | **02 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 | 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. |
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| **Thursday** | **03 November** |  |
| 08:40-09:30 | Enzymes: Mechanism of action | Dr. Ahmet Suha Yalçın |
| 09:40-10:30 | Enzymes: Mechanism of action | Dr. Ahmet Suha Yalçın |
| 10:40-11:30 | Mutations and polymorphisms | Dr. Fatih Eren |
| 11:40-12:30 | DNA Repair | 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. |
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| **Friday** | **04 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Chromosome structure, function and anomalies | Dr. Can Erzik |
| 10:40-11:30 | Enzymes: Regulation | Dr. Ahmet Suha Yalçın |
| 11:40-12:30 | Enzymes: Regulation | Dr. Ahmet Suha Yalçın |
|  |  |  |
| 13:40-14:30 | PBL Study Time |  |
| 14:40-15:30 | PBL-2 |  |
| 15:40-16:30 | PBL-2 |  |
| 16:40-17:30 |  |  |
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| **Week-6 (07 November - 11 November 2022)** |
| **Monday** | **07 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 | PBL-3 |  |
| 14:40-15:30 | PBL-3 |  |
| 15:40-16:30 | Elective course  |  |
| 16:40-17:30 | Elective course  |  |
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| **Tuesday** | **08 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  |  |
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| 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  |  |
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| **Wednesday** | **09 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  |  |
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| 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  |  |
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| **Thursday** | **10 November** |  |
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| 08:40-09:30 |  |  |
| 09:40-10:30 | **10 KASIM ATATÜRK'Ü ANMA TÖRENİ** |  |
| 10:40-11:30 | Molecular transmission of genetic information | Dr. Erdi Sözen |
| 11:40-12:30 | Molecular transmission of genetic information | Dr. Erdi Sözen |
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| 13:40-14:30 | Biochemistry LAB: Spectrophotometer - Group A  | Multidisciplinary Lab. |
| 14:40-15:30 | Biochemistry LAB: Spectrophotometer - Group A  | Multidisciplinary Lab. |
| 15:40-16:30 | Biochemistry LAB: Spectrophotometer - Group A  | Multidisciplinary Lab. |
| 16:40-17:30 | Biochemistry LAB: Spectrophotometer - Group A  | Multidisciplinary Lab. |
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| **Friday** | **11 November** |  |
| 08:40-09:30 | Biochemistry LAB: Spectrophotometer - Group B | Multidisciplinary Lab. |
| 09:40-10:30 | Biochemistry LAB: Spectrophotometer - Group B | Multidisciplinary Lab. |
| 10:40-11:30 | Biochemistry LAB: Spectrophotometer - Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Biochemistry LAB: Spectrophotometer - 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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| **Week-7 (14 November - 18 November 2022)** |
| **Monday** | **14 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Cytogenetics | Dr. Bilgen Bilge Geçkinli |
| 10:40-11:30 | Regulation of gene expression | Dr. İrem Peker Eyüboğlu |
| 11:40-12:30 | Regulation of gene expression | Dr. İrem Peker Eyüboğlu |
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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** | **15 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Cell death and molecular mechanisms | Dr. Mustafa Akkiprik |
| 10:40-11:30 | Posttranscriptional and posttranslational modifications | Dr. Erdi Sözen |
| 11:40-12:30 | Posttranscriptional and posttranslational modifications | Dr. Erdi Sözen |
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| 13:40-14:30 | PBL Study Time |  |
| 14:40-15:30 | PBL-4 |  |
| 15:40-16:30 | PBL-4 |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **16 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Molecular basis of disease | Dr. Mustafa Akkiprik |
| 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 | Describing the data with graphics | Dr. Gülnaz Nural Bekiroğlu |
| 14:40-15:30 | Describing the data with numbers | Dr. Gülnaz Nural Bekiroğlu |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Thursday** | **17 November** |  |
| 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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| **Friday** | **18 November** |  |
| 08:40-09:30 | Communication Skills and Introduction to Medical Interview (Practice-Effective Communication) | Dr. Çiğdem Apaydın Kaya |
| 09:40-10:30 | Communication Skills and Introduction to Medical Interview (Practice-Effective Communication) | Dr. Çiğdem Apaydın Kaya |
| 10:40-11:30 | Communication Skills and Introduction to Medical Interview (Practice-Effective Communication) | Dr. Çiğdem Apaydın Kaya |
| 11:40-12:30 | Communication Skills and Introduction to Medical Interview (Practice-Effective Communication) | Dr. Çiğdem Apaydın Kaya |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Communication Skills and Introduction to Medical Interview (Practice-Effective Communication) | Dr. Çiğdem Apaydın Kaya |
| 15:40-16:30 | Communication Skills and Introduction to Medical Interview (Practice-Effective Communication) | Dr. Çiğdem Apaydın Kaya |
| 16:40-17:30 |  |  |
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| **Week-8 (21 November - 25 November 2022)** |
| **Monday** | **21 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Detection of nucleic acids | Dr. Mustafa Akkiprik |
| 11:40-12:30 | Tools of cell biology | Dr. Mustafa Akkiprik |
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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** | **22 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Multifactorial inheritance | Dr. Can Erzik |
| 10:40-11:30 | Mechanism of signal transduction | Dr. Erdi Sözen |
| 11:40-12:30 | Mechanism of signal transduction | Dr. Erdi Sözen |
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| 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. |
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| **Wednesday** | **23 November** |  |
| 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 | Biochemistry LAB: Urease - Group B | Multidisciplinary Lab. |
| 14:40-15:30 | Biochemistry LAB: Urease - Group B | Multidisciplinary Lab. |
| 15:40-16:30 | Biochemistry LAB: Urease - Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Biochemistry LAB: Urease - Group B | Multidisciplinary Lab. |
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| **Thursday** | **24 November** |  |
| 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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| **Friday** | **25 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Week-9 (28 November - 02 December 2022)** |
| **Monday** | **28 November** |  |
| 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  |  |
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| **Tuesday** | **29 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **30 November** |  |
| 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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| **Thursday** | **01 December** |  |
| 08:40-09:30 | **Y1C1 THEORETICAL EXAM** |  |
| 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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| **Friday** | **02 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
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