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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 1October 12 – December 01, 2020 |
| **Coordinator of the Course 1.1**Assoc. Prof., Bilgen Bilge GEÇKİNLİ  | **Coordinator of the Module 1.1**Assist. Prof., Can ERZİK |
| **Year 1 Coordinators** Assoc. Prof., Dilek AKAKIN & Prof., Mustafa AKKİPRİK |
| **Module Coordinator**Prof., Rezzan GÜLHAN, Assist.Prof., Sinem YILDIZ İNANICI | **Introduction to Clinical Practice (ICP) Coordinator**Prof., Pemra 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 Süleyman ŞEHİRLİ | **Dean** Prof., Hakan GÜNDÜZ |

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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 MedicineÖzge EMRE, Instructor of Medical EnglishFeriha ERCAN, Professor of Histology&EmbryologyEla ERDEM ERALP, Assoc. Professor of PediatricsFatih EREN, Assoc. Professor of Medical Biology Can ERZİK, Assist. Professor of Medical BiologyBilgen Bilge GEÇKİNLİ, Assoc. Professor of Medical GeneticsŞefik GÖRKEY, Professor of Medical History and EthicsGoncagül HAKLAR, Professor of Biochemistry | Betül KARADEMİR, Assoc. Professor of BiochemistryNesrin KARTAL ÖZER, Professor of BiochemistryPınar MEGA TİBER, Assoc. Professor of BiophysicsCevdet NACAR, Assist. Professor of BiophysicsSıdıka Ayşe ÖZER, Professor of Medical BiologyAhmet Erdi SÖZEN, Lecturer of BiochemistryÖnder ŞİRİKÇİ, Professor of BiochemistrySerap ŞİRVANCI, Professor of Histology&EmbryologyYeşim TALMAN, Assoc. Professor of Basic Pharmaceutical SciencesAhmet Suha YALÇIN, Professor of BiochemistrySinem YILDIZ İNANICI, Assist. Professor of Medical Education |
| 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 | 4 |  | 4 |
| 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 | 111 | 12 | 123 |
| PBL Module | 8 |  | 8 |
| TOTAL | 118 | 12 | 130 |
| 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** |  **144**  | **27** | **171** |

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| **NINE WEEK PROGRAM** |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week-1 (12 October - 16 October 2020)** |
| **Monday** | **12 October** |  |
|  | I.SINIF AÇILIŞ PROGRAMI\*\*Konuşmalar “ues.marmara.edu.tr” adresi üzerinden gerçekleştirilecektir.  |  |
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| 14:00-14:10 | Açılış Konuşması | Prof.Dr.Hakan GÜNDÜZ, Dekan |
| 14:10-14:20 | M.Ü.Tıp Fak. Eğitim Sisteminin Tanıtılması | Prof.Dr.Ümit S.ŞEHİRLİ, Dekan Yrd. |
| 14:30-15:00 | İlk Ders | Prof.Dr.Serhan TUĞLULAR, İç Hast. Anabilim Dalı Öğr.Üyesi |
| 15:00-15:20 | Eğitim Programı ve Uygulamalar Hakkında Genel Bilgilendirme | Prof.Dr.Oya ORUN, Başkoord.Yrd.Dr.Öğr.Üyesi Can ERZİK, Başkoord.Yrd. |
| 15:20-15:30 | Mentorluk Programı Hakkında Bilgilendirme | Prof.Dr.Ahmet TOPUZOĞLU |
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| **Tuesday** | **13 October** |  |
| 09:00-09:50 | Introduction to the course | Dr. Bilgen Bilge Geçkinli |
| 10:00-10:50 | Origin of life | Dr. Can Erzik |
| 11:00-11:50 | Molecular recognition process | Dr. Can Erzik |
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| 13:00-13:50 | The impact of Haydarpaşa Campus in Turkish Medical History | Dr. Şefik Görkey |
| 14:00-14:50 | Introduction to organic chemistry | Dr. Yeşim Talman |
| 15:00-15:50 | Chemical compounds | Dr. Yeşim Talman |
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| **Wednesday** | **14 October** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Cellular organisation of life | Dr. Sıdıka Ayşe Özer |
| 11:00-11:50 | Cellular organisation of life | Dr. Sıdıka Ayşe Özer |
|  |  |  |
| 13:00-13:50 | Biomolecules and water | Dr. Önder Şirikçi |
| 14:00-14:50 | Biomolecules and water | Dr. Önder Şirikçi |
| 15:00-15:50 |  |  |
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| **Thursday** | **15 October** |  |
| 09:00-09:50 | Nucleic acids | Dr. Mustafa Akkiprik |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
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| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
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| **Friday** | **16 October** |  |
| 09:00-09:50 | Turning points in History of Medicine | Dr. Şefik Görkey |
| 10:00-10:50 | Turning points in History of Medicine | Dr. Şefik Görkey |
| 11:00-11:50 | Nucleus and nuclear genome | Dr. Sıdıka Ayşe Özer |
|  |  |  |
| 13:00-13:50 |  |  |
| 14:00-14:50 | Atoms and atomic theory, atomic properties and periodic table | Dr. Yeşim Talman |
| 15:00-15:50 | Chemical bonds: ionic and covalent | Dr. Yeşim Talman |
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| **Week-2 (19 October - 23 October 2020)** |
| **Monday** | **19 October** |  |
| 09:00-09:50 | Structure of nucleic acids | Dr. Erdi Sözen |
| 10:00-10:50 | Chemical reactions and equilibrium | Dr. Yeşim Talman |
| 11:00-11:50 | Chemical reactions and equilibrium | Dr. Yeşim Talman |
|  |  |  |
| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
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| **Tuesday** | **20 October** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Introduction to ICP | Dr. Gülru Pemra Cöbek Ünalan |
| 11:00-11:50 | Programme of ICP-1 | Dr. Gülru Pemra Cöbek Ünalan |
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| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 | Acids and bases | Dr. Yeşim Talman |
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| **Wednesday** | **21 October** |  |
| 09:00-09:50 | Genes and heredity | Dr. Sıdıka Ayşe Özer |
| 10:00-10:50 | Cell cycle | Dr. Sıdıka Ayşe Özer |
| 11:00-11:50 | Acids and bases | Dr. Yeşim Talman |
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| 13:00-13:50 | Histotechniques | Dr. Serap Şirvancı |
| 14:00-14:50 | Chemical kinetics and reaction mechanisms | Dr. Yeşim Talman |
| 15:00-15:50 | Chemical kinetics and reaction mechanisms | Dr. Yeşim Talman |
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| **Thursday** | **22 October** |  |
| 09:00-09:50 | History of Anatomy | Dr. Şefik Görkey |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
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| 13:00-13:50 | Solubility, pH and buffers | Dr. Önder Şirikçi |
| 14:00-14:50 | Solubility, pH and buffers | Dr. Önder Şirikçi |
| 15:00-15:50 | History of Anatomy | Dr. Şefik Görkey |
| 16:00-16:50 | Structure of carbohydrates | Dr. Önder Şirikçi |
| 17:00-17:50 | Structure of carbohydrates | Dr. Önder Şirikçi |
| **Friday** | **23 October** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Microscope | Dr. Serap Şirvancı |
| 11:00-11:50 | Microscope | Dr. Serap Şirvancı |
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| 13:00-13:50 |  |  |
| 14:00-14:50 | Thermochemistry (chemical energetics) | Dr. Yeşim Talman |
| 15:00-15:50 | Thermochemistry (chemical energetics) | Dr. Yeşim Talman |
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| **Week-3 (26 October - 30 October 2020)** |
| **Monday** | **26 October** |  |
| 09:00-09:50 | DNA replication | Dr. Sıdıka Ayşe Özer |
| 10:00-10:50 | DNA replication | Dr. Sıdıka Ayşe Özer |
| 11:00-11:50 |  |  |
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| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
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| **Tuesday** | **27 October** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | RNA synthesis and processing | Dr. Fatih Eren |
| 11:00-11:50 | RNA synthesis and processing | Dr. Fatih Eren |
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| 13:00-13:50 | Structure of lipids | Dr. Goncagül Haklar |
| 14:00-14:50 | Structure of lipids | Dr. Goncagül Haklar |
| 15:00-15:50 | History of Physiology | Dr. Şefik Görkey |
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| **Wednesday** | **28 October** |  |
| 09:00-09:50 | Packaging chromosomal DNA | Dr. Fatih Eren |
| 10:00-10:50 | Solubility and complex ion equilibrium | Dr. Yeşim Talman |
| 11:00-11:50 | Solubility and complex ion equilibrium | Dr. Yeşim Talman |
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| 13:00-13:50 | **TATİL****Cumhuriyet Bayramı / Republic Day of Turkey****28 October** |  |
| 14:00-14:50 |  |
| 15:00-15:50 |  |
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| **Thursday** | **29 October** |  |
| 09:00-09:50 | **TATİL****Cumhuriyet Bayramı / Republic Day of Turkey****29 October** |  |
| 10:00-10:50 |  |
| 11:00-11:50 |  |
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| 13:00-13:50 |  |
| 14:00-14:50 |  |
| 15:00-15:50 |  |
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| **Friday** | **30 October** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Amino acids | Dr. Önder Şirikçi |
| 11:00-11:50 | Amino acids | Dr. Önder Şirikçi |
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| 13:00-13:50 |  |  |
| 14:00-14:50 | Protein synthesis | Dr. Fatih Eren |
| 15:00-15:50 | Protein synthesis | Dr. Fatih Eren |
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| **Week-4 (02 November – 06 November 2020)** |  |  |
| **Monday** | **02 November** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Electrochemistry: oxidation and reduction | Dr. Yeşim Talman |
| 11:00-11:50 | Electrochemistry: oxidation and reduction | Dr. Yeşim Talman |
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| 13:00-13:50 | PBL Orientation |  |
| 14:00-14:50 | PBL Orientation |  |
| 15:00-15:50 | PBL Orientation |  |
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| **Tuesday** | **03 November** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | What is statistics and biostatistics? | Dr. Gülnaz Nural Bekiroğlu |
| 11:00-11:50 | Statistics in medical research | Dr. Gülnaz Nural Bekiroğlu |
|  |  |  |
| 13:00-13:50 | Protein structure and function-1 | Dr. Betül Karademir |
| 14:00-14:50 | Protein structure and function-1 | Dr. Betül Karademir |
| 15:00-15:50 | History of human experimentation | Dr. Şefik Görkey |
| 16:00-16:50 | Evolution of the concept of infection | Dr. Şefik Görkey |
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| **Wednesday** | **04 November** |  |
| 09:00-09:50 | Cell division kinetics | Dr. Mustafa Akkiprik |
| 10:00-10:50 | Mitosis | Dr. Mustafa Akkiprik |
| 11:00-11:50 | Meiosis | Dr. Mustafa Akkiprik |
|  |  |  |
| 13:00-13:50 | History of surgery | Dr. Şefik Görkey |
| 14:00-14:50 | PBL-1 |  |
| 15:00-15:50 | PBL-1 |  |
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| **Thursday** | **05 November** |  |
| 09:00-09:50 | History of medical professionalism | Dr. Şefik Görkey |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:00-13:50 | Protein structure and function-2 | Dr. Betül Karademir |
| 14:00-14:50 | Protein structure and function-2 | Dr. Betül Karademir |
| 15:00-15:50 |  |  |
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| **Friday** | **06 November** |  |
| 09:00-09:50 | History of Medicine in Seljukid and Ottoman Ages | Dr. Şefik Görkey |
| 10:00-10:50 | Cellular organels and inclusions at LM and EM level | Dr. Feriha Ercan |
| 11:00-11:50 | Cellular organels and inclusions at LM and EM level | Dr. Feriha Ercan |
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| 13:00-13:50 |  |  |
| 14:00-14:50 | PBL-2 |  |
| 15:00-15:50 | PBL-2 |  |
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| **Week-5 (09 November - 13 November 2020)** |  |  |
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| **Monday** | **09 November** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Enzymes: Introduction | Dr. Ahmet Suha Yalçın |
| 11:00-11:50 | Enzymes: Introduction | Dr. Ahmet Suha Yalçın |
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| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
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| **Tuesday** | **10 November** |  |
| 09:00-09:50 | **10 Kasım Atatürk’ü Anma Töreni /** **November 10, Commemoration of Atatürk** |  |
| 10:00-10:50 | Enzymes: Mechanism of action | Dr. Ahmet Suha Yalçın |
| 11:00-11:50 | Enzymes: Mechanism of action | Dr. Ahmet Suha Yalçın |
|  |  |  |
| 13:00-13:50 | Introduction to biophysics – I | Dr. Pınar Mega Tiber |
| 14:00-14:50 | Introduction to biophysics – I | Dr. Pınar Mega Tiber |
| 15:00-15:50 | Structure of proteins | Dr. Yeşim Talman |
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| **Wednesday** | **11 November** |  |
| 09:00-09:50 | ICP-1 Student Research & Computer Skills |  |
| 10:00-10:50 | ICP-1 Student Research & Computer Skills |  |
| 11:00-11:50 | ICP-1 Student Research & Computer Skills |  |
|  |  |  |
| 13:00-13:50 | ICP-1 Student Research & Computer Skills |  |
| 14:00-14:50 | PBL-3 |  |
| 15:00-15:50 | PBL-3 |  |
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| **Thursday** | **12 November** |  |
| 09:00-09:50 | Enzymes: Regulation | Dr. Ahmet Suha Yalçın |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:00-13:50 | Nucleus and cell division | Dr. Feriha Ercan |
| 14:00-14:50 | Nucleus and cell division | Dr. Feriha Ercan |
| 15:00-15:50 | High energy compounds | Dr. Yeşim Talman |
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| **Friday** | **13 November** |  |
| 09:00-09:50 | Introduction to genetics | Dr. Can Erzik |
| 10:00-10:50 | Fundamentals to Mendelian genetics | Dr. Can Erzik |
| 11:00-11:50 | Enzymes: Regulation | Dr. Ahmet Suha Yalçın |
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| 13:00-13:50 |  |  |
| 14:00-14:50 | PBL-4 |  |
| 15:00-15:50 | PBL-4 |  |
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| **Week-6 (16 November - 20 November 2020)** |  |  |
| **Monday** | **16 November** |  |
| 09:00-09:50 | Viruses, plasmids, transposable genetic elements | Dr. Mustafa Akkiprik |
| 10:00-10:50 | Recombination | Dr. Sıdıka Ayşe Özer |
| 11:00-11:50 | Population genetics | Dr. Can Erzik |
|  |  |  |
| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
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| **Tuesday** | **17 November** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Molecular transmission of genetic information | Dr. Erdi Sözen |
| 11:00-11:50 | Molecular transmission of genetic information | Dr. Erdi Sözen |
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| 13:00-13:50 | Introduction to biophysics – II | Dr. Pınar Mega Tiber |
| 14:00-14:50 | Introduction to biophysics – II | Dr. Pınar Mega Tiber |
| 15:00-15:50 | DNA Repair | Dr. Mustafa Akkiprik |
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| **Wednesday** | **18 November** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | ICP-1 Student Research & Computer Skills |  |
| 11:00-11:50 | ICP-1 Student Research & Computer Skills |  |
|  |  |  |
| 13:00-13:50 | ICP-1 Student Research & Computer Skills |  |
| 14:00-14:50 | ICP-1 Student Research & Computer Skills |  |
| 15:00-15:50 |  |  |
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| **Thursday** | **19 November** |  |
| 09:00-09:50 | Cell death and molecular mechanisms | Dr. Mustafa Akkiprik |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
|  |  |  |
| 13:00-13:50 | Chromosome structure, function and anomalies | Dr. Can Erzik |
| 14:00-14:50 | Chromosome structure, function and anomalies | Dr. Can Erzik |
| 15:00-15:50 |  |  |
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| **Friday** | **20 November** |  |
| 09:00-09:50 | History of Medicine in Turkish Republic | Dr. Şefik Görkey |
| 10:00-10:50 | Designing research | Dr. Gülnaz Nural Bekiroğlu |
| 11:00-11:50 | Types of data | Dr. Gülnaz Nural Bekiroğlu |
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| 13:00-13:50 |  |  |
| 14:00-14:50 | Regulation of gene expression | Dr. Sıdıka Ayşe Özer |
| 15:00-15:50 | Regulation of gene expression | Dr. Sıdıka Ayşe Özer |
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| **Week-7 (23 November - 27 November 2020)** |  |  |
| **Monday** | **23 November** |  |
| 09:00-09:50 | Mutations and polymorphisms | Dr. Fatih Eren |
| 10:00-10:50 | Structure of lipids | Dr. Yeşim Talman |
| 11:00-11:50 | Structure of carbohydrates | Dr. Yeşim Talman |
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| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
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| **Tuesday** | **24 November** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Detection of nucleic acids | Dr. Mustafa Akkiprik |
| 11:00-11:50 | Tools of cell biology | Dr. Mustafa Akkiprik |
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| 13:00-13:50 | Posttranscriptional and posttranslational modifications | Dr. Ahmet Suha Yalçın |
| 14:00-14:50 | Posttranscriptional and posttranslational modifications | Dr. Ahmet Suha Yalçın |
| 15:00-15:50 |  |  |
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| **Wednesday** | **25 November** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | ICP-1 Student Research & Computer Skills |  |
| 11:00-11:50 | ICP-1 Student Research & Computer Skills |  |
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| 13:00-13:50 | ICP-1 Student Research & Computer Skills |  |
| 14:00-14:50 | ICP-1 Student Research & Computer Skills |  |
| 15:00-15:50 |  |  |
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| **Thursday** | **26 November** |  |
| 09:00-09:50 | Molecular basis of disease | Dr. Mustafa Akkiprik |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
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| 13:00-13:50 | Mechanism of signal transduction | Dr. Nesrin Kartal Özer |
| 14:00-14:50 | Mechanism of signal transduction | Dr. Nesrin Kartal Özer |
| 15:00-15:50 |  |  |
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| **Friday** | **27 November** |  |
| 09:00-09:50 | Multifactorial inheritance | Dr. Can Erzik |
| 10:00-10:50 | Describing the data with graphics | Dr. Gülnaz Nural Bekiroğlu |
| 11:00-11:50 | Describing the data with numbers | Dr. Gülnaz Nural Bekiroğlu |
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| 13:00-13:50 |  |  |
| 14:00-14:50 | Cellular effects of tobacco use | Dr. Ela Erdem Eralp |
| 15:00-15:50 | Cellular effects of tobacco use | Dr. Ela Erdem Eralp |
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| **Week-8 (30 November - 04 December 2020)** |  |  |
| **Monday** | **30 November** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Histology LAB: Cell types | Dr. Feriha Ercan |
| 11:00-11:50 | Histology LAB: Cell division | Dr. Feriha Ercan |
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| 13:00-13:50 | Elective course |  |
| 14:00-14:50 | Elective course |  |
| 15:00-15:50 |  |  |
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| **Tuesday** | **01 December** |  |
| 09:00-09:50 | Biochemistry LAB: Spectrophotometer |  |
| 10:00-10:50 | Biochemistry LAB: Spectrophotometer |  |
| 11:00-11:50 | Cytogenetics | Dr. Bilgen Bilge Geçkinli |
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| 13:00-13:50 | Biochemistry LAB: Urease |  |
| 14:00-14:50 | Biochemistry LAB: Urease |  |
| 15:00-15:50 |  |  |
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| **Wednesday** | **02 December** |  |
| 09:00-09:50 |  |  |
| 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 |
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| 13:00-13:50 | ICP-1 Student Research & Computer Skills | Dr. Sinem Yıldız İnanıcı |
| 14:00-14:50 | ICP-1 Student Research & Computer Skills | Dr. Sinem Yıldız İnanıcı |
| 15:00-15:50 |  |  |
| 16:00-16:50 | Information content of DNA | Dr. Cevdet Nacar |
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| **Thursday** | **03 December** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | Medical English | Dr. Özge Emre |
| 11:00-11:50 | Medical English | Dr. Özge Emre |
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| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
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| **Friday** | **04 December** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
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| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
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| **Week-9 (07 December - 11 December 2020)** |
| **Monday** | **07 December** |  |
| 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 |  |  |
| **Tuesday** | **08 December** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
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| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
| **Wednesday** | **09 December** |  |
| 09:00-09:50 |  |  |
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| 11:00-11:50 |  |  |
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| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
| **Thursday** | **10 December** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 | **Y1C1 EXAM** |  |
| 11:00-11:50 |  |
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| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |
| **Friday** | **11 December** |  |
| 09:00-09:50 |  |  |
| 10:00-10:50 |  |  |
| 11:00-11:50 |  |  |
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| 13:00-13:50 |  |  |
| 14:00-14:50 |  |  |
| 15:00-15:50 |  |  |