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| **C:\Users\Namariel\Downloads\TıpF (1)\TıpF\TıpF-2.png****MARMARA UNIVERSITY SCHOOL of MEDICINE** |
| HEMATOPOIETIC SYSTEM AND RELATED DISORDERS YEAR 2 COURSE 3December 19, 2022 – February 17, 2023 |
| **Coordinator of the Course 2.3**Assist. Prof. Muhammed Hasan TOPER  | **Coordinator of the Module 2.3**Assist. Prof. Ömer DOĞRU |
| **Year 2 Coordinators** Prof. Özgür KASIMAY & Assist. Prof. Burak AKSU |
| **Module Coordinator**Prof. Rezzan GÜLHAN, Assist. Prof. Sinem YILDIZ İNANICI | **Introduction to Clinical Practice (ICP) Coordinators**Prof. Pemra CÖBEK ÜNALANProf. Serap ÇİFÇİLİ |
|  **Coordinator of Multidisciplinary Students’ Lab**.Prof. Betül YILMAZ | **Coordinator of Clinical Skills Lab.**Prof. Çiğdem APAYDIN KAYA |
|  **Coordinator of Assessment Unite**Assist. Prof. Cevdet NACAR | **Coordinator of Student Exchange Programs**Assist. Prof. Can ERZİK |
| **Vice-Chief Coordinators** |
| **Program**Prof. Oya ORUN | **Assessment** Prof. Hasan Raci YANANLI | **Students’ Affairs**Assist. Prof. Can ERZİK |
| **Chief Coordinator (Pre-Clinical Education)** Prof. Serap ŞİRVANCI | **Coordinator of Medical Education Program Evaluation and Development Commission**Prof. Harika ALPAY |
| **Vice Dean (Education)**Prof. Altuğ ÇİNÇİN & Prof. Hasan Raci YANANLI | **Dean**Prof. Ümit Süleyman ŞEHİRLİ |

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

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| HEMATOPOIETIC SYSTEM AND RELATED DISORDERS |
| AIM and LEARNING OBJECTIVES of COURSE **Aim:** At the end of this committee, second year students will gain knowledge about the development, structure and physiology of the hematopoietic system and pathogenesis of the disorders related to system. They will also gain knowledge about the signs and symptoms of hematopoietic disorders, related risk factors, prevention, diagnosis, and principles of treatment.**Learning Objectives:** At the end of this committee, second year students will, * understand the development and histology of the lymphoid organs and blood
* identify the structure and function of the hematopoietic system
* define the pathologic processes in hematological disorders
* gain knowledge about microorganisms affect the hematopoietic system and their pathogenesis in infectious process
* gain knowledge about the risk groups, risk factors related to hematological disorders and preventive measures
* gain knowledge about the signs and symptoms of these disorders
* gain knowledge about the approach to diagnosis, and principles of treatment in hematological disorders
* define the pharmacotherapy of hematological disorders
* 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-2.3 & MODULE-2.3 |
| * Anatomy
* Biochemistry
* Family Medicine
* Histology and Embryology
* Internal Medicine
* Medical Biology
* Medical Education
 | * Microbiology
* Pathology
* Pediatrics
* Pharmacology
* Physiology
* Public Health
 |
| LECTURERS / TUTORS |
| Dilek AKAKIN, Professor of Histology and EmbryologyAhmet AKICI, Professor of Pharmacology Mehmet AKMAN, Professor of Family Medicine Mehmet Burak AKSU, Assist. Professor of Microbiology Pınar ATA, Professor of Medical GeneticsIşık ATAGÜNDÜZ, Professor of Internal Medicine Saime BATIREL, Assoc. Professor of Biochemistry Süheyla BOZKURT, Professor of PathologyÖmer DOĞRU, Assist. Professor of Pediatrics Nurşah EKER, Assist. Professor of Pediatrics Fatih EREN, Professor of Medical BiologyDeniz FİLİNTE, Assoc. Professor of Pathology Goncagül HAKLAR, Professor of BiochemistryUfuk HASDEMİR, Professor of Microbiology Zeynep Arzu İLKİ, Professor of MicrobiologyÖzgür KASIMAY, Professor of Physiology Mert KAŞKAL, Lecturer in Pharmacology | Özlem Tuğçe KAYA, Assoc. Professor of Histology and Embryology Volkan KORTEN, Professor of Infectious DiseasesHızır KURTEL, Professor of PhysiologyLütfiye MÜLAZIMOĞLU DURMUŞOĞLU, Professor of Professor of Infectious DiseasesÜmit Süleyman ŞEHİRLİ, Professor of Anatomy Önder ŞİRİKÇİ, Professor of BiochemistryMuhammed Hasan TOPER, Assist. Professor of PathologyTayfur TOPTAŞ, Assoc. Professor of Internal MedicineAhmet TOPUZOĞLU, Professor of Public Health Tülin TUĞLULAR, Professor of Internal MedicineNurver ÜLGER, Professor of Microbiology Dilek YAĞCI ÇAĞLAYIK, Assoc. Professor of Infectious Diseases Hasan Raci YANANLI, Professor of PharmacologySinem YILDIZ İNANICI, Assist. Professor of Medical EducationAsu Fergün YILMAZ, Assist. Professor of Internal MedicineBetül YILMAZ, Professor of Biochemistry |

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| READING / STUDYING MATERIALS• Manual of Pediatric Hematology & Oncology, Philip Lanzkowsky • Nathan and Oski's Hematology of Infancy and Childhood, David G. Nathan, Stuart H. Orkin, A. Thomas Look, David Ginsburg. • Manual of Clinical Hematology, Joseph J Mazza (Lippincott Williams & Wilkins). • A Color Atlas of Comperative, Diagnostic and Experimental Hematology, C.A. Smith, et al., London, Wolfe, 1994. • Wintrobe’s Clinical Hematology, G. Richard Lee, et al., Philedelphia, Lea &Febiger, 2008. • Kan Hastalıkları, B. Berkarda, Istanbul, ‹.U. Basım ve Yayınevi, 2003 • Principles of Physiology, Berne & Levy • Textbook of Physiology, Guyton and Hall • Clinical Diagnosis and Management by Laboratory Methods, John Bernard Henry (Saunders). • Medical Microbiology; Patrick R Murray, Michael A. Pfaller, Ken S. Rosenthal. • Jawetz, Melnick, and Adelberg’s Medical Microbiology (Lange Basic Science). • Basic & Clinical Pharmacology ISBN: 0071410929 Copyright year: 2004 Bertram G Katzung Ninth edition. • Goodman & Gilman's The Pharmacological Basis of Therapeutics tenth edition (August 13, 2001) McGraw-Hill Professional ISBN-10: 0071354697. • Aster JC Disease of White Blood Cells, Lymph nodes, spleen. In: Kumar V, Abbas AK, Fausto N. Aster JC (eds). Robbins and Cotran Pathological basis of disease. 8th ed. Philadelphia: Elsevier Saunders. 2010: 589-639.  |

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| SUMMARY OF THE COURSE |
| **Discipline** | **Lecture & Group Discussion** | **Multidisciplinary Lab. & Clinical Skills Lab. Practice** | **Total** |
| Anatomy | 2 | 1 | 3 |
| Biochemistry | 11 | 2 | 13 |
| Family Medicine | 1 |  | 1 |
| Genetics | 2 |  | 2 |
| Histology and Embryology | 6 | 2 | 8 |
| Infectious Diseases | 4 |  | 4 |
| Internal Medicine | 19 |  | 21 |
| Medical Biology | 2 |  | 2 |
| Microbiology | 9 | 4 | 13 |
| Pathology | 5 | 1 | 6 |
| Pediatrics | 6 |  | 6 |
| Pharmacology | 5 |  | 5 |
| Physiology | 5 | 3 | 8 |
| Public Health | 2 |  | 2 |
| Subtotal | 79 | 13 | 94 |
| PBL Module | 8 |  | 8 |
| TOTAL | 89 | 13 | 102 |
| ICP-2: Basic Clinical Skills, Human in Medicine (Students’ Research Activity) | 24 | 24 | 48 |
| **TOTAL** | **111** | **37** | **148** |

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| **SEVEN WEEK PROGRAM** |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
|  | **Week 1 (19 December - 23 December 2022)** |  |
| **Monday** | **19 December** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Introduction to course | Dr. Hasan Toper |
| 10:40-11:30 | Anatomy of the lymphoid organs | Dr. Ümit Süleyman Şehirli |
| 11:40-12:30 | Lymphoid circulation | Dr. Ümit Süleyman Şehirli |
|  |  |  |
| 13:40-14:30 | Histology of blood | Dr. Özlem Tuğçe Kaya |
| 14:40-15:30 | Histology of blood | Dr. Özlem Tuğçe Kaya |
| 15:40-16:30 | Elective course |  |
| 16:40-17:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **20 December** |   |
| 08:40-09:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 09:40-10:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 10:40-11:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 11:40-12:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| 13:40-14:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 14:40-15:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 15:40-16:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 16:40-17:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| **Wednesday** | **21 December** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 | Constituents of blood | Dr. Önder Şirikçi |
|  |  |  |
| 13:40-14:30 | Structure and function of erythrocytes | Dr. Saime Batırel |
| 14:40-15:30 | Structure and function of erythrocytes | Dr. Saime Batırel |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
|  |  |  |
| **Thursday** | **22 December** |   |
| 08:40-09:30 | **Y3C2 exam** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |  |
| 13:40-14:30 | Lymphoid organs | Dr. Dilek Akakın |
| 14:40-15:30 | Lymphoid organs | Dr. Dilek Akakın |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Friday** | **23 December** |   |
| 08:40-09:30 | Structure and function of white blood cells | Dr. Goncagül Haklar |
| 09:40-10:30 | Structure and function of white blood cells | Dr. Goncagül Haklar |
| 10:40-11:30 | Development of lymphoid organs | Dr. Dilek Akakın |
| 11:40-12:30 | Hematopoiesis | Dr. Dilek Akakın |
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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 2 (26 December - 30 December 2022)** |  |
| **Monday** | **26 December** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 | White and red blood cells | Dr. Özgür Kasımay  |
| 10:40-11:30 | White and red blood cells | Dr. Özgür Kasımay  |
| 11:40-12:30 | Blood groups | Dr. Özgür Kasımay  |
|  |  |  |
| 13:40-14:30 | Platelets: Coagulation and fibrinolysis | Dr. Hızır Kurtel |
| 14:40-15:30 | Platelets: Coagulation and fibrinolysis | Dr. Hızır Kurtel |
| 15:40-16:30 | Elective course |  |
| 16:40-17:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **27 December** |   |
| 08:40-09:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 09:40-10:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 10:40-11:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 11:40-12:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| 13:40-14:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 14:40-15:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 15:40-16:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 16:40-17:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| **Wednesday** | **28 December** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Physiology LAB: Blood Physiology-Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Physiology LAB: Blood Physiology-Group A | Multidisciplinary Lab. |
| 11:40-12:30 | Physiology LAB: Blood Physiology-Group A | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 | Physiology LAB: Blood Physiology-Group B | Multidisciplinary Lab. |
| 14:40-15:30 | Physiology LAB: Blood Physiology-Group B | Multidisciplinary Lab. |
| 15:40-16:30 | Physiology LAB: Blood Physiology-Group B | Multidisciplinary Lab. |
| 16:40-17:30 |  |  |
|  |  |  |
| **Thursday** | **29 December** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Structure and function of hemoglobin | Dr. Betül Yılmaz |
| 11:40-12:30 | Structure and function of hemoglobin | Dr. Betül Yılmaz |
|  |  |  |
| 13:40-14:30 | Biochemistry of blood coagulation and fibrinolysis | Dr. Goncagül Haklar |
| 14:40-15:30 | Biochemistry of blood coagulation and fibrinolysis | Dr. Goncagül Haklar |
| 15:40-16:30 | Introduction to hematology, stem cell, and hematopoiesis | Dr. Tülin Tuğlular |
| 16:40-17:30 |  |  |
|  |  |  |
| **Friday** | **30 December** |   |
| 08:40-09:30 | Histology LAB: Blood and Lymphoid organs-Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Histology LAB: Blood and Lymphoid organs-Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Histology LAB: Blood and Lymphoid organs-Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Histology LAB: Blood and Lymphoid organs-Group B | Multidisciplinary Lab. |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Classification and clinical approach to anemia | Dr. Işık Atagündüz |
| 15:40-16:30 | Megaloblastic anemias | Dr. Işık Atagündüz |
| 16:40-17:30 |  |  |
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|  | **Week 3 (02 January - 06 January 2023)** |  |
| **Monday** | **02 January** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Biochemical aspect of anemia | Dr. Saime Batırel |
| 10:40-11:30 | Biochemical aspect of anemia | Dr. Saime Batırel |
| 11:40-12:30 | Iron metabolism and iron deficiencies | Dr. Asu Fergün Yılmaz |
|  |  |  |
| 13:40-14:30 | Introduction to hemolytic anemia’s of and mechanism of hemolysis | Dr. Ömer Doğru |
| 14:40-15:30 | Hemolytic anemia’s due to membrane and enzyme defects | Dr. Ömer Doğru |
| 15:40-16:30 | Elective course |  |
| 16:40-17:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **03 January** |   |
| 08:40-09:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 09:40-10:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 10:40-11:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 11:40-12:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| 13:40-14:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 14:40-15:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 15:40-16:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 16:40-17:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| **Wednesday** | **04 January** |   |
| 08:40-09:30 | Pathology of bone marrow | Dr. Hasan Toper |
| 09:40-10:30 | Pathology of bone marrow | Dr. Hasan Toper |
| 10:40-11:30 | Neoplastic disorders of lymph node and spleen | Dr. Süheyla Bozkurt |
| 11:40-12:30 | Neoplastic disorders of lymph node and spleen | Dr. Süheyla Bozkurt |
|  |  |  |
| 13:40-14:30 | Study Time |  |
| 14:40-15:30 | PBL-1 |  |
| 15:40-16:30 | PBL-1 |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Thursday** | **05 January** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Vector borne diseases | Dr. Mehmet Burak Aksu |
| 10:40-11:30 | Vector borne diseases | Dr. Mehmet Burak Aksu |
| 11:40-12:30 | Acquired and congenital thrombophilias | Dr. Tayfur Toptaş |
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| 13:40-14:30 | Hemophilia | Dr. Ömer Doğru |
| 14:40-15:30 | Quantitative disorders of the platelets | Dr. Ömer Doğru |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Friday** | **06 January** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Anatomy LAB: Anatomy of lymphoid organs-Group A | Anatomy Lab. |
| 11:40-12:30 | Anatomy LAB: Anatomy of lymphoid organs-Group B | Anatomy Lab. |
|  |  |  |
| 13:40-14:30 | PBL STUDY TIME |  |
| 14:40-15:30 | PBL-2 |  |
| 15:40-16:30 | PBL-2 |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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|  | **Week 4 (09 January - 13 January 2023)** |  |
| **Monday** | **09 January** |   |
| 08:40-09:30 | ICP-2:HIM-Social Concepts 5 | Dr. Mehmet Akman |
| 09:40-10:30 | ICP-2:HIM-Social Concepts 5 | Dr. Mehmet Akman |
| 10:40-11:30 | ICP-2:HIM-Social Concepts 5 | Dr. Mehmet Akman |
| 11:40-12:30 | ICP-2:HIM-Social Concepts 5 | Dr. Mehmet Akman |
|  |  |  |
| 13:40-14:30 | Bone marrow failure diseases | Dr. Tayfur Toptaş |
| 14:40-15:30 | Thrombocytopenias and immune thrombocytopenic purpura | Dr. Tülin Tuğlular |
| 15:40-16:30 | Elective course |  |
| 16:40-17:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **10 January** |   |
| 08:40-09:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 09:40-10:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 10:40-11:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 11:40-12:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| 13:40-14:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 14:40-15:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 15:40-16:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 16:40-17:30 |  ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| **Wednesday** | **11 January** |   |
| 08:40-09:30 | Multiple myeloma and other paraproteinemias | Dr. Işık Atagündüz |
| 09:40-10:30 | Toxoplasmosis | Dr. Ufuk Hasdemir |
| 10:40-11:30 | Epidemiology of diseases spread by arthropod vectors | Dr. Ahmet Topuzoğlu |
| 11:40-12:30 | Epidemiology of diseases spread by arthropod vectors | Dr. Ahmet Topuzoğlu |
|  |  |  |
| 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** | **12 January** |   |
| 08:40-09:30 | Multi-system zoonosis including tuleremia and brucellosis | Dr. Mehmet Burak Aksu |
| 09:40-10:30 | Multi-system zoonosis including tuleremia and brucellosis | Dr. Mehmet Burak Aksu |
| 10:40-11:30 | Myeloproliferative disorders: CML, Polycythemia Vera, essential thrombocytosis and primary myelofibrosis | Dr. Tülin Tuğlular |
| 11:40-12:30 | Myeloproliferative disorders: CML, Polycythemia Vera, essential thrombocytosis and primary myelofibrosis | Dr. Tülin Tuğlular |
|  |  |  |
| 13:40-14:30 | Immune hemolytic anemias | Dr. Asu Fergün Yılmaz |
| 14:40-15:30 | Non-immune acquired hemolytic anemias | Dr. Asu Fergün Yılmaz |
| 15:40-16:30 | Non-neoplastic disorders of lymph node and spleen | Dr. Süheyla Bozkurt |
| 16:40-17:30 |  |  |
|  |  |  |
| **Friday** | **13 January** |   |
| 08:40-09:30 | Systemic fungal infections | Dr. Arzu İlki |
| 09:40-10:30 | Systemic fungal infections | Dr. Arzu İlki |
| 10:40-11:30 | Malaria and other infections due to blood and tissue protozoa | Dr. Nurver Ülger |
| 11:40-12:30 | Malaria and other infections due to blood and tissue protozoa | Dr. Nurver Ülger |
|  |  |  |
| 13:40-14:30 | PBL STUDY TIME |  |
| 14:40-15:30 | PBL-4 |  |
| 15:40-16:30 | PBL-4 |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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|  | **Week 5 (16 January - 20 January 2023)** |  |
| **Monday** | **16 January** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Acute leukemia | Dr. Tayfur Toptaş |
| 11:40-12:30 | Reading blood smear (slide show) | Dr. Tayfur Toptaş |
|  |  |  |
| 13:40-14:30 | Biological modifiers | Dr. Mert Kaşkal  |
| 14:40-15:30 | Pharmacotherapy of malaria | Dr. Mert Kaşkal  |
| 15:40-16:30 | Elective course |  |
| 16:40-17:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **17 January** |   |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 |  |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 |  |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 |  |
| 11:40-12:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 |  |
|  |  |  |
| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 |  |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 |  |
| 15:40-16:30 | ICP-2: HIM-Social Concepts Exam | Dr. Sinem Yıldız İnanıcı |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Wednesday** | **18 January** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 | Microbiology LAB: Diagnosis of hematopoietic system infections Group A | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Diagnosis of hematopoietic system infections Group A | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Diagnosis of hematopoietic system infections Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Diagnosis of hematopoietic system infections Group B | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Thursday** | **19 January** |   |
| 08:40-09:30 | Microbiology LAB: Diagnosis of hematopoietic system infections Group C | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Diagnosis of hematopoietic system infections Group C | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB: Diagnosis of hematopoietic system infections Group D | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB: Diagnosis of hematopoietic system infections Group D | Multidisciplinary Lab. |
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| 13:40-14:30 | Infectious mononucleosis | Dr. Volkan Korten |
| 14:40-15:30 | Viral hemorrhagic diseases | Dr. Dilek Yağcı Çağlayık |
| 15:40-16:30 | Lympocytosis and Chronic lymphocytic leukemia’s (CLL) | Dr. Tülin Tuğlular |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Friday** | **20 January** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Sepsis | Dr. Lütfiye Mülazımoğlu Durmuşoğlu |
| 10:40-11:30 | Infections in immunocompromised host | Dr. Volkan Korten |
| 11:40-12:30 | (Case) An adult patient with lymphadenopathies | Dr. Mehmet Akman  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 | Pharmacotherapy of anemia | Dr. Hasan Raci Yananlı |
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|  | **Week 6 (23 January - 27 January 2023)** |  |
| **Monday** | **23 January** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Heavy metals and antagonists | Dr. Hasan Raci Yananlı |
| 10:40-11:30 | Hodgkin disease and non-Hodgkin lymphomas | Dr. Tülin Tuğlular  |
| 11:40-12:30 | Hodgkin disease and non-Hodgkin lymphomas | Dr. Tülin Tuğlular  |
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| 13:40-14:30 | Transfusion medicine: Blood components | Dr. Asu Fergün Yılmaz  |
| 14:40-15:30 | Blood transfusion indications and complications | Dr. Asu Fergün Yılmaz  |
| 15:40-16:30 | Elective course |  |
| 16:40-17:30 | Elective course |  |
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| **Tuesday** | **24 January** |   |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 11:40-12:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 15:40-16:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 16:40-17:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 17:40-18:30 |  |  |
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| **Wednesday** | **25 January** |   |
| 08:40-09:30 | Pathology LAB: Pathology of bone marrow and lymphoid tissues Group A  | Multidisciplinary Lab. |
| 09:40-10:30 | Pathology LAB: Pathology of bone marrow and lymphoid tissues Group B | Multidisciplinary Lab. |
| 10:40-11:30 | Pathology LAB: Pathology of bone marrow and lymphoid tissues Group C | Multidisciplinary Lab. |
| 11:40-12:30 | Pathology LAB: Pathology of bone marrow and lymphoid tissues Group D | Multidisciplinary Lab. |
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| 13:40-14:30 | Anticancer chemotherapy | Dr. Ahmet Akıcı |
| 14:40-15:30 | Genetics of hematological disorders | Dr. Pınar Ata |
| 15:40-16:30 | Genetics of hematological disorders | Dr. Pınar Ata |
| 16:40-17:30 |  |  |
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| **Thursday** | **26 January** |   |
| 08:40-09:30 | Biochemistry LAB: Examination of red blood cells-Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Biochemistry LAB: Examination of red blood cells-Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Biochemistry LAB: Examination of red blood cells-Group A | Multidisciplinary Lab. |
| 11:40-12:30 | Biochemistry LAB: Examination of red blood cells-Group A | Multidisciplinary Lab. |
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| 13:40-14:30 | Biochemistry LAB: Examination of red blood cells-Group B | Multidisciplinary Lab. |
| 14:40-15:30 | Biochemistry LAB: Examination of red blood cells-Group B | Multidisciplinary Lab. |
| 15:40-16:30 | Biochemistry LAB: Examination of red blood cells-Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Biochemistry LAB: Examination of red blood cells-Group B | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Friday** | **27 January** |   |
| 08:40-09:30 | Sickle cell disease | Dr. Nurşah Eker  |
| 09:40-10:30 | Thalassemias | Dr. Nurşah Eker |
| 10:40-11:30 | Molecular basis of hemoglobinopathies | Dr. Fatih Eren |
| 11:40-12:30 | DNA diagnosis of hemaglobinopathies | Dr. Fatih Eren |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
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| 17:40-18:30 |  |  |
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|  | **Week 7 (19 June – 23 June 2023)** |  |
| **Monday** | **19 June** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
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| **Tuesday** | **20 June** |   |
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| **Wednesday** | **21 June** |   |
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| **Thursday** | **22 June** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| **14:30** | **Y2C3 THEORETICAL EXAM** | **ONLINE** |
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| **Friday** | **23 June** |   |
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| 09:40-10:30 |  |  |
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