



**MARMARA UNIVERSITY – EASTERN MEDITERRANEAN UNIVERSITY
INTERNATIONAL MEDICAL SCHOOL**



HEMATOPOIETIC SYSTEM AND RELATED DISORDERS

YEAR 2 COURSE 3

December 17th, 2018 – February 15th, 2019

Year 2 Coordinators

Assoc. Prof., Özgür Kasımay ÇAKIR & Assist. Prof., Burak AKSU & Dr. Masoud AFSHANI

Module Coordinators

Assoc. Prof., Özlem SARIKAYA & Inst. Berfu Çerçi
ONGUN

Introduction to Clinician Skills (ICS) Coordinators

Assoc. Prof., Pemra ÜNALAN & Assist. Prof., Bülent
SEZGIN

Coordinators of Clinical Skill Lab.

Assoc. Prof., Pemra ÜNALAN & Assist. Prof., Bülent
Sezgin

Coordinators of ICS Res. Lab.

Prof., Sibel SAKARYA & Assist. Prof., İlke AKÇAY

Coordinators of Multidisciplinary Students' Lab.

Assoc. Prof., Betül KARADEMİR & Assist. Prof.,
Mümtaz GÜRAN

Coordinators of Assessment Unit

Asist. Prof., Cevdet NACAR & Assist. Prof., H. Eren
SAKALLI

Vice-Chief Coordinators

Assessment

Asist. Prof., Cevdet NACAR & Assist. Prof., H. Eren
SAKALLI

Students' Affairs

Asist. Prof., Can ERZİK & Assist. Prof., İlke AKÇAY &
Assist. Prof., Mümtaz GÜRAN

Chief Coordinators

Assoc. Prof., Hasan YANANLI & Assist. Prof., Mümtaz
GÜRAN

**Coordinator of Medical Education Program
Evaluation and Development Commission**

Prof., Berrak Ç. YEĞEN

Educational Consultant

Assoc. Prof., Mehmet Ali GÜLPINAR

Dean (EMU)

Prof., Nahide GÖKÇORA

Dean (MU)

Prof., Hakan GÜNDÜZ

LEARNING OUTCOMES / COMPETENCIES

- A. **Clinical Care: Qualified patient care and community oriented health care**
 1. Basic clinical skills
 2. The organization and management of the patient and the patient care
 3. The organization and the management of health care delivery services / system
 4. Health promotion and disease prevention
- B. **Medical Knowledge and Evidence-Based Medicine**
 5. Appropriate information retrieval and management skills
 6. The integration of knowledge, critical thinking and evidence-based decision making
 7. Scientific methods and basic research skills
- C. **Professional Attitudes and Values**
 8. Communication skills and effective communication with patients / patient relatives
 9. Interpersonal relationships and team working
 10. Ethical and professional values, responsibilities
 11. Individual, social and cultural values and responsibilities
 12. Reflective practice and continuing development
 13. Healthcare delivery systems, management and community oriented health care
 14. Education and counseling

PHASE-1 LEARNING OBJECTIVES

1. Understanding the normal structures and functions of human body
2. Correlating the basic concepts and principles to each other that define health and disease; applying basic concepts and principles to health and disease conditions
3. Developing clinical problem solving, clinical reasoning and evaluation skills by integrating biomedical, clinical, social and humanities knowledge
4. Gaining basic clinical skills by applications in simulated settings.
5. Awareness of the professional values in health and disease processes (professional, individual, societal) and acquisition necessary related skills
6. Evaluating critically and synthesizing all the medical evidence and perform respecting scientific, professional and ethical values
7. Acquisition skills in reflective thinking and practicing, being open to continuous individual / professional development.

PHASES – 1 THEMA/ORGAN SYSTEM-BASED COURSE PROGRAMS

Year 1, Course 1: Introduction to Cell and Cellular Replication

Year 1, Course 2: Cellular Metabolism and Transport

Year 1, Course 3: Development and Organization of Human Body

Year 1, Course 4: Introduction to Nervous System and Human Behavior

Year 2, Course 1: Cell and Tissue Injury I

Year 2, Course 2: Cell and Tissue Injury II

Year 2, Course 3: Hematopoietic System and Related Disorders

Year 2, Course 4: Musculoskeletal, Integumentary Systems and Related Disorders

Year 2, Course 5: Respiratory System and Related Disorders

Year 3, Course 1: Cardiovascular System and Related Disorders

Year 3, Course 2: Gastrointestinal System, Metabolism and Related Disorders

Year 3, Course 3: Nervous System and Related Disorders

Year 3, Course: Growth, Development, Mental Health and Related Disorders

Year 3, Course 5: Urinary and Reproductive System and Related Disorders

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,

1. understand the development and histology of the lymphoid organs and blood
2. identify the structure and function of the hematopoietic system
3. define the pathologic processes in hematological disorders
4. gain knowledge about microorganisms affect the hematopoietic system and their pathogenesis in infectious process
5. gain knowledge about the risk groups, risk factors related to hematological disorders and preventive measures
6. gain knowledge about the signs and symptoms of these disorders
7. gain knowledge about the approach to diagnosis, and principles of treatment in hematological disorders
8. define the pharmacotherapy of hematological disorders
9. acquire skills necessary to perform experimental applications.

ASSESSMENT SYSTEM

Module examination: Written exam at the end of the course and performance during the module

Practical examination: Practical exams at the end of course

Course examination: Written exam at the end of course

PROGRAM EVALUATION

Evaluation at the end of the course, is done both orally and by using structured evaluation forms

DEPARTMENTS PARTICIPATING IN COURSE-2.3

- Anatomy
- Biochemistry
- Family Medicine
- Histology and Embryology
- Internal Medicine
- Medical Biology

- Medical Genetics
- Microbiology
- Pathology
- Pharmacology
- Physiology
- Public Health

LECTURERS / TUTORS

Ahmet TOPUZÖĞLU, Assoc. Professor of Public Health
Alper YILDIRIM, Assoc. Professor of Physiology
Berfu Çerçi ÖNGÜN, Instructor of Anatomy
Bülent SEZGİN, Assist. Professor of Internal Medicine
Burak AKSU, Asist. Prof. of Microbiology
Can ERZİK, Assist. Professor of Medical Biology
Cemal GÜRKAN, Instructor of Forensic Sciences
Emine ÖZERİNÇ, Instructor of School of Foreign Languages and Preparatory School
Eren SAKALLI, Assist. Professor of Pharmacology
Ergül MUTLU ALTUNDAĞ, Asist. Professor of Biochemistry
Goncagül HAKLAR, Professor of Biochemistry
Kemal TÜRKÖZ, Assoc. Professor of Pathology
Nurver ÜLGER, Professor of Microbiology

Masoud AFSHANİ, Assist. Professor of Histology and Embryology
Nilgün ÇERİKÇİOĞLU, Professor of Microbiology
Mehmet AKMAN Assoc. Professor of Family Medicine
Mümtaz GÜRAN, Assist. Professor of Microbiology
Nurtane KARAGİL, Instructor of Arts and Crafts
Özgür KASIMAY, Assoc. Professor of Physiology
Özlem Tuğçe KAYA, Instructor of Histology and Embryology
Pınar ATA, Assoc. Professor of Medical Genetics
Saime BATIREL, Assist. Professor of Biochemistry
Şefik Görkey, Prof. Of Medical History and Ethics
Tayfur Toptaş, Assist. Professor of Internal medicine
Uluhan SİLİ, Assist. Professor of Infectious Diseases
Ümit ŞEHİRLİ, Professor of Anatomy

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 Comparative, Diagnostic and Experimental Hematology, C.A. Smith, et al., London, Wolfe, 1994.
- Wintrobe's Clinical Hematology, G. Richard Lee, et al., Philadelphia, Lea &Febiger, 2008.
- Kan Hastalıkları, B. Berkarda, Istanbul, U. BasımveYayınevi, 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(eds). Pathological basis of disease. 7th ed. China: Elsevier Saunders. 2005: 661-705.
- McKenna RW, Maiese RL, Croft SH. Disorders of bone marrow. In Sternberg SS(ed). Diagnostic surgical pathology. 3rd ed. Philadelphia: Lippincott Williams&Wilkins 1999:661-708.

SUMMARY OF THE COURSE 2.3			
Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Anatomy	2	2	4
Biochemistry	11	2	13
Family Medicine	1		1
Histology & Embryology	6	2	8
Infectious Diseases	3		3
Internal Medicine	26		26
Medical Biology	2		2
Medical Genetics	2		2
Pathology	5	1	6
Pharmacology	6		6
Physiology	5	3	8
Microbiology	7	2	9
Public Health	2		2
Subtotal	76	12	88
PBL Module	8		8
ICS-2: HTX and ICE Exam	2	6	8
ICS-2: HIM-Arts and Humanities	12		12
ICS-2: HIM-Social Concepts in Medicine	14		14
ICS-2: HIM-Ethics	12		12
Turkish For Medical Students-III	24		24
Turkish For Medical Students-III (Interactive Session)	0		0
Elective Course-II MDCN181 MDCN182 MDCN184	8		8
TOTAL	156	18	174

Y2C3 Last update: January 16th 2019
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	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
Week 1 (17th -21th December 2018)		
Monday	17 December	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
14:40-15:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
15:40-16:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
16:40-17:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
Tuesday	18 December	
08:40-09:30	Introduction to the course and opening lecture	Dr. Masoud Afshani
09:40-10:30	Anatomy of lymphoid organs	Dr. Ümit Şehirli
10:40-11:30	Lymphoid circulation	Dr. Ümit Şehirli
11:40-12:30	STUDY TIME	
13:40-14:30	Anatomy LAB: Anatomy of lymphoid organs	Dr. Ümit Şehirli, Dr. Berfu Çerçi Ongun
14:40-15:30	Anatomy LAB: Anatomy of lymphoid organs	Dr. Ümit Şehirli, Dr. Berfu Çerçi Ongun
15:40-16:30	Constituents of blood	Dr. Ergül Mutlu Altundağ
16:40-17:30	STUDY TIME	
Wednesday	19 December	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	Biochemistry of blood coagulation and fibrinolysis	Dr. Goncagül Haklar
11:40-12:30	Biochemistry of blood coagulation and fibrinolysis	Dr. Goncagül Haklar
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	20 December	
08:40-09:30	Histology of blood	Dr. Özlem Tuğçe Kaya
09:40-10:30	Histology of blood	Dr. Özlem Tuğçe Kaya
10:40-11:30	Lymphoid organs	Dr. Özlem Tuğçe Kaya
11:40-12:30	Lymphoid organs	Dr. Özlem Tuğçe Kaya

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13:40-14:30	Histology LAB: Blood and Lymphoid organs - Group A	Dr. Özlem Tuğçe Kaya, Dr. Masoud Afshani
14:40-15:30	Histology LAB: Blood and Lymphoid organs - Group A	Dr. Özlem Tuğçe Kaya, Dr. Masoud Afshani
15:40-16:30	Histology LAB: Blood and Lymphoid organs - Group B	Dr. Özlem Tuğçe Kaya, Dr. Masoud Afshani
16:40-17:30	Histology LAB: Blood and Lymphoid organs - Group B	Dr. Özlem Tuğçe Kaya, Dr. Masoud Afshani
Friday	21 December	
08:40-09:30	Y3C2 THEORITICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Hematopoiesis	Dr. Masoud Afshani
14:40-15:30	Development of lymphoid organs	Dr. Masoud Afshani
15:40-16:30	Structure and function of white blood cells	Dr. Ergül Mutlu Altundağ
16:40-17:30	Structure and function of white blood cells	Dr. Ergül Mutlu Altundağ
Week 2 (24th -28th December 2018)		
Monday	24 December	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
14:40-15:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
15:40-16:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft for Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness and High Intensity Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
16:40-17:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft for Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness and High Intensity Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	25 December	
08:40-09:30	CHRISTMAS DAY	
09:40-10:30	CHRISTMAS DAY	
10:40-11:30	CHRISTMAS DAY	

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11:40-12:30	CHRISTMAS DAY	
13:40-14:30	CHRISTMAS DAY	
14:40-15:30	CHRISTMAS DAY	
15:40-16:30	CHRISTMAS DAY	
16:40-17:30	CHRISTMAS DAY	
Wednesday	26 December	
08:40-09:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
09:40-10:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
10:40-11:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
11:40-12:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
13:40-14:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
14:40-15:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
15:40-16:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
16:40-17:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
Thursday	27 December	
08:40-09:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
09:40-10:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
10:40-11:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
11:40-12:30	ICS-2: HIM-Arts and Humanities	Dr. Mehmet Akman, Dr. Bülent Sezgin
13:40-14:30	(Case) An adult patient with lymphadenopathies	Dr. Mehmet Akman
14:40-15:30	PBL-MODULE 1	Dr. Eren Sakallı, Dr. Ergül Altundağ, Dr. Maryam Norouzbahari
15:40-16:30	PBL-MODULE 1	
16:40-17:30	STUDY TIME	
Friday	28 December	
08:40-09:30	Systemic fungal infections	Dr. Nilgün Çerikçioğlu
09:40-10:30	Systemic fungal infections	Dr. Nilgün Çerikçioğlu
10:40-11:30	Malaria and other infections due to blood and tissue protozoa	Dr. Nurver Ülger

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11:40-12:30	Malaria and other infections due to blood and tissue protozoa	Dr. Nurver Ülger
13:40-14:30	Toxoplasmosis	Dr. Nurver Ülger
14:40-15:30	Microbiology LAB: Diagnosis of hematopoietic system infections	Dr. Nurver Ülger, Dr. Mümtaz Güran
15:40-16:30	Microbiology LAB: Diagnosis of hematopoietic system infections	Dr. Nurver Ülger, Dr. Mümtaz Güran
16:40-17:30	STUDY TIME	
Week 3 (31th December 2018 - 04th January 2019)		
Monday	31 December	
08:40-09:30	NEW YEAR'S EVE	
09:40-10:30	NEW YEAR'S EVE	
10:40-11:30	NEW YEAR'S EVE	
11:40-12:30	NEW YEAR'S EVE	
13:40-14:30	NEW YEAR'S EVE	
14:40-15:30	NEW YEAR'S EVE	
15:40-16:30	NEW YEAR'S EVE	
16:40-17:30	NEW YEAR'S EVE	
Tuesday	1 January	
08:40-09:30	NEW YEAR HOLIDAY	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Wednesday	02 January	
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
13:40-14:30	Genetics of hematological disorders	Dr. Pınar Ata
14:40-15:30	Genetics of hematological disorders	Dr. Pınar Ata
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	03 January	

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08:40-09:30	Structure and function of erythrocytes	Dr. Saime Batirel
09:40-10:30	Structure and function of erythrocytes	Dr. Saime Batirel
10:40-11:30	Structure and function of hemoglobin	Dr. Saime Batirel
11:40-12:30	Structure and function of hemoglobin	Dr. Saime Batirel
13:40-14:30	White and red blood cells	Dr. Özgür Kasımay
14:40-15:30	White and red blood cells	Dr. Özgür Kasımay
15:40-16:30	Biochemical aspect of anemia	Dr. Saime Batirel
16:40-17:30	Biochemical aspect of anemia	Dr. Saime Batirel
Friday	04 January	
08:40-09:30	Blood groups	Dr. Özgür Kasımay
09:40-10:30	Physiology LAB: Blood Physiology-Group A	Dr. Özgür Kasımay, Dr. Alper Yıldırım
10:40-11:30	Physiology LAB: Blood Physiology-Group A	Dr. Özgür Kasımay, Dr. Alper Yıldırım
11:40-12:30	Physiology LAB: Blood Physiology-Group A	Dr. Özgür Kasımay, Dr. Alper Yıldırım
13:40-14:30	Physiology LAB: Blood Physiology-Group B	Dr. Özgür Kasımay, Dr. Alper Yıldırım
14:40-15:30	Physiology LAB: Blood Physiology-Group B	Dr. Özgür Kasımay, Dr. Alper Yıldırım
15:40-16:30	Physiology LAB: Blood Physiology-Group B	Dr. Özgür Kasımay, Dr. Alper Yıldırım
16:40-17:30	STUDY TIME	
Week 4 (07th-11th January 2019)		
Monday	07 January	
08:40-09:30	Aberrations in immune responses- Immunodeficiencies	Dr. Tunç Akkoç
09:40-10:30	Aberrations in Immune Responses-Immunologic mechanisms of allergic diseases	Dr. Tunç Akkoç
10:40-11:30	Dermatophytes and their pathogenic mechanism	Dr. Mehmet Burak Aksu
11:40-12:30	Molds, dimorphic fungi, P. carinii (P. iroveci) and their pathogenic mechanisms	Dr. Mehmet Burak Aksu
13:40-14:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
14:40-15:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
15:40-16:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft for Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness and High Intensity Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
16:40-17:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences	Dr. Cemal Gürkan Inst. Nurtane Karagil

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	MDCN182 Art & Craft for Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness and High Intensity Interval Training	Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	08 January	
08:40-09:30	Vector borne diseases	Dr. Burak Aksu
09:40-10:30	Vector borne diseases	Dr. Burak Aksu
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	Tolerance and autoimmunity	Dr. Tunç Akkoç
14:40-15:30	Transplantation immunology	Dr. Tunç Akkoç
15:40-16:30	PBL-MODULE 2	Dr. Masoud Afshani, Dr. Eren Sakallı, Dr. Ergül Altundağ
16:40-17:30	PBL-MODULE 2	
Wednesday	09 January	
08:40-09:30	Biochemistry LAB: Examination of red blood cells - Group A	Dr. Saime Batirel, Dr. Ergül Mutlu Altundağ
09:40-10:30	Biochemistry LAB: Examination of red blood cells - Group A	Dr. Saime Batirel, Dr. Ergül Mutlu Altundağ
10:40-11:30	Biochemistry LAB: Examination of red blood cells - Group B	Dr. Saime Batirel, Dr. Ergül Mutlu Altundağ
11:40-12:30	Biochemistry LAB: Examination of red blood cells - Group B	Dr. Saime Batirel, Dr. Ergül Mutlu Altundağ
13:40-14:30	Infections in immunocompromised host	Dr. Uluhan Sili
14:40-15:30	Sepsis	Dr. Uluhan Sili
15:40-16:30	Infectious mononucleosis	Dr. Uluhan Sili
16:40-17:30	STUDY TIME	
Thursday	10 January	
08:40-09:30	Biological modifiers	Dr. Eren Sakallı
09:40-10:30	Heavy metals and antagonists	Dr. Eren Sakallı
10:40-11:30	Molecular basis of hemoglobinopathies (Remote Session)	Dr. Can Erzik
11:40-12:30	Molecular basis of hemoglobinopathies (Remote Session)	Dr. Can Erzik
13:40-14:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
14:40-15:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
15:40-16:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
16:40-17:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
Friday	11 January	
08:40-09:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey

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09:40-10:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
10:40-11:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
11:40-12:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
13:40-14:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
14:40-15:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
15:40-16:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
16:40-17:30	ICS-2: HIM-Ethics	Dr. Şefik Görkey
Week 5 (14th-18th January 2019)		
Monday	14 January	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
14:40-15:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
15:40-16:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft for Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness and High Intensity Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
16:40-17:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft for Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness and High Intensity Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	15 January	
08:40-09:30	ICS-2: HIM-Social Concept in Medicine	Dr. Mehmet Akman, Dr. Hülya Akan, Dr. Bülent Sezgin
09:40-10:30	ICS-2: HIM-Social Concept in Medicine	Dr. Mehmet Akman, Dr. Hülya Akan, Dr. Bülent Sezgin
10:40-11:30	ICS-2: HIM-Social Concept in Medicine	Dr. Mehmet Akman, Dr. Hülya Akan, Dr. Bülent Sezgin
11:40-12:30	ICS-2: HIM-Social Concept in Medicine	Dr. Mehmet Akman, Dr. Hülya Akan, Dr. Bülent Sezgin
13:40-14:30	ICS-2: HIM-Social Concept in Medicine	Dr. Mehmet Akman, Dr. Hülya Akan, Dr. Bülent Sezgin

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14:40-15:30	ICS-2: HIM-Social Concept in Medicine	Dr. Mehmet Akman, Dr. Hülya Akan, Dr. Bülent Sezgin
15:40-16:30	ICS-2: HIM-Social Concept in Medicine	Dr. Mehmet Akman, Dr. Hülya Akan, Dr. Bülent Sezgin
16:40-17:30	ICS-2: HIM-Social Concept in Medicine	Dr. Mehmet Akman, Dr. Hülya Akan, Dr. Bülent Sezgin
Wednesday	16 January	
08:40-09:30	Non-neoplastic disorders of lymph node and spleen	Dr. Kemal Türköz
09:40-10:30	Non-neoplastic disorders of lymph node and spleen	Dr. Kemal Türköz
10:40-11:30	Pathology of bone marrow	Dr. Kemal Türköz
11:40-12:30	Pathology of bone marrow	Dr. Kemal Türköz
13:40-14:30	Neoplastic disorders of lymph node and spleen	Dr. Kemal Türköz
14:40-15:30	Pathology LAB: Pathology of bone marrow and lymphoid tissues - A	Dr. Kemal Türköz
15:40-16:30	Pathology LAB: Pathology of bone marrow and lymphoid tissues - B	Dr. Kemal Türköz
16:40-17:30	STUDY TIME	
Thursday	17 January	
08:40-09:30	Introduction to hematology, stem cell, and hematopoiesis	Dr. Tayfur Toptaş
09:40-10:30	Classification and clinical approach to anemia	Dr. Tayfur Toptaş
10:40-11:30	Introduction to hemolytic anemia's of and mechanism of hemolysis	Dr. Tayfur Toptaş
11:40-12:30	Hemolytic anemia's due to membrane and enzyme defects	Dr. Tayfur Toptaş
13:40-14:30	PBL-MODULE 3	Dr. Masoud Afshani, Dr. Eren Sakallı, Dr. Ergül Altundağ
14:40-15:30	PBL-MODULE 3	
15:40-16:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
16:40-17:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
Friday	18 January	
08:40-09:30	Sickle cell disease	Dr. Tayfur Toptaş
09:40-10:30	Thalassemia	Dr. Tayfur Toptaş
10:40-11:30	Hemophilia	Dr. Tayfur Toptaş
11:40-12:30	Megaloblastic anemias	Dr. Tayfur Toptaş
13:40-14:30	Reading blood smear (slide show)	Dr. Tayfur Toptaş
14:40-15:30	Pharmacotherapy of anemia	Dr. Eren Sakallı
15:40-16:30	Pharmacotherapy of anemia	Dr. Eren Sakallı

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16:40-17:30	Hematopoietic agents: Growth factors	Dr. Eren Sakallı
Week 8 (21st - 25th January 2019)		
Monday	21 January	
08:40-09:30	Immune hemolytic anemias	Dr. Tayfur Toptaş
09:40-10:30	Non-immune acquired hemolytic anemias	Dr. Tayfur Toptaş
10:40-11:30	Iron metabolism and iron deficiencies	Dr. Tayfur Toptaş
11:40-12:30	Aplastic anemia	Dr. Tayfur Toptaş
13:40-14:30	Quantitative disorders of platelets	Dr. Tayfur Toptaş
14:40-15:30	Thrombocytopenia and Immune Thrombocytopenic Purpura	Dr. Tayfur Toptaş
15:40-16:30	Acquired and congenital thrombophilia	Dr. Tayfur Toptaş
16:40-17:30	STUDY TIME	
Tuesday	22 January	
08:40-09:30	Transfusion medicine: Blood components	Dr. Tayfur Toptaş
09:40-10:30	Blood transfusion indications and complications	Dr. Tayfur Toptaş
10:40-11:30	Myelodysplastic syndrome	Dr. Tayfur Toptaş
11:40-12:30	Chronic lymphocytic leukemia's (CLL)	Dr. Tayfur Toptaş
13:40-14:30	PBL-MODULE 4	Dr. Masoud Afshani, Dr. Eren Sakallı, Dr. Ergül Altundağ
14:40-15:30	PBL-MODULE 4	
15:40-16:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
16:40-17:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
Wednesday	23 January	
08:40-09:30	Myeloproliferative disorders: CML, Polycythemia Vera, essential thrombocytosis and primary myelofibrosis	Dr. Tayfur Toptaş
09:40-10:30	Myeloproliferative disorders: CML, Polycythemia Vera, essential thrombocytosis and primary myelofibrosis	Dr. Tayfur Toptaş
10:40-11:30	Acute leukemia's: Classification and molecular aspect	Dr. Tayfur Toptaş
11:40-12:30	Acute leukemia's: Classification and molecular aspect	Dr. Tayfur Toptaş
13:40-14:30	Platelets: Coagulation and fibrinolysis	Dr. Alper Yıldırım
14:40-15:30	Platelets: Coagulation and fibrinolysis	Dr. Alper Yıldırım
15:40-16:30	Multiple myeloma and other paraproteinemias	Dr. Tayfur Toptaş
16:40-17:30	Hodgkin disease and non-Hodgkin lymphomas (1 & 2)	Dr. Tayfur Toptaş
Thursday	24 January	
08:40-09:30	ICS-2: History Taking and IPE (Written Exam)	Dr. Bülent Sezgin, Dr. Halil Eren Sakallı, Dr. Didem Rıfki, Dr. Cihan Tüccar
09:40-10:30	ICS-2: History Taking and IPE (Written Exam)	
10:40-11:30	ICS-2: History Taking and IPE (Practical Exam)	
11:40-12:30	ICS-2: History Taking and IPE (Practical Exam)	

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13:40-14:30	ICS-2: History Taking and IPE (Practical Exam)	Dr. Bülent Sezgin, Dr. Halil Eren Sakallı, Dr. Didem Rıfki, Dr. Cihan Tüccar
14:40-15:30	ICS-2: History Taking and IPE (Practical Exam)	
15:40-16:30	ICS-2: History Taking and IPE (Practical Exam)	
16:40-17:30	ICS-2: History Taking and IPE (Practical Exam)	
Friday	25 January	
08:40-09:30	Anticancer Chemotherapy	Dr. Eren Sakallı
09:40-10:30	ICS-2: HIM-Social Concept in Medicine	Dr. Mehmet Akman, Dr. Hülya Akan, Dr. Bülent Sezgin
10:40-11:30	ICS-2: HIM-Social Concept in Medicine	
11:40-12:30	ICS-2: HIM-Social Concept in Medicine	
13:40-14:30	ICS-2: HIM-Social Concept in Medicine	Dr. Mehmet Akman, Dr. Hülya Akan, Dr. Bülent Sezgin
14:40-15:30	ICS-2: HIM-Social Concept in Medicine	
15:40-16:30	ICS-2: HIM-Social Concept in Medicine	
16:40-17:30	STUDY TIME	
	SEMESTER HOLIDAYS (28 January-8 February)	
Week 9 (11 th -15 th February 2019)		
Monday	11 February	
08:40-09:30	PRACTICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	PRACTICAL EXAM	
14:40-15:30		
15:40-16-30		
16:40-17:30		
Tuesday	12 February	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	

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15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Wednesday	13 February	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	14 February	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	15 February	
08:40-09:30	Y2C3 THEORETICAL EXAM (09:30 a.m.)	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		