



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



**HEMATOPOIETIC SYSTEM AND RELATED DISORDERS
YEAR 2 COURSE 3
December 25th, 2017 – February 23rd, 2018**

Year 2 Coordinators

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

Module Coordinators Assoc. Prof., Özlem SARIKAYA & Assist. Prof., H. Eren SAKALLI	Introduction to Clinician Skills (ICS) Coordinators Assoc. Prof., Pemra ÜNALAN & Assist. Prof. Dr. Bülent SEZGIN
Coordinators of Clinical Skill Lab. Assoc. Prof., Pemra ÜNALAN & Inst., Berfu Çerçi ÖNGÜN	Coordinators of ICS Res. Lab. Prof., Sibel SAKARYA & Assist. Prof., Mevhibe HOCAOĞLU
Coordinators of Multidisciplinary Students' Lab. Assoc. Prof., Betül KARADEMİR & Assist. Prof., Mümtaz GÜRAN	Coordinators of Assessment Unite Asist. Prof., Cevdet NACAR & Assist. Prof., Mümtaz GÜRAN & Assist. Prof., Mevhibe HOCAOĞLU & Assist. Prof., H. Eren SAKALLI
Vice-Chief Coordinators	
Assessment Asist. Prof., Cevdet NACAR & Assist. Prof., Mümtaz GÜRAN	Students' Affairs Asist. Prof., Can ERZİK & Assist. Prof., İlke AKÇAY
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
- Pediatrics
- Pharmacology
- Physiology
- Public Health

LECTURERS / TUTORS

Ahmet TOPUZOĞLU, 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
 Duygu Gençalp, Instructor of Biochemistry
 Emine ÖZERİNÇ, Instructor of School of Foreign Languages and Preparatory School
 Eren SAKALLI, Assist. Professor of Pharmacology
 Ergül MUTLU ALTUNDAĞ, Asist. Professor of Biochemistry
 Goncağül HAKLAR, Professor of Biochemistry
 Hasan TOPER, Assist. Professor of Pathology
 Kemal TÜRKÖZ, Assist. Professor of Pathology

Masoud AFSHANI, Instructor of Histology and Embryology
 Nilgün ÇERİKÇİOĞLU, Professor of Microbiology
 Mehmet AKMAN Assoc. Professor of Family Medicine
 Mümtaz GÜRAN, Assist. Professor of Microbiology
 Nevber İSTİLLOZLU, Instructor of School of Foreign Languages and Preparatory School
 Nurtane KARAGİL, Instructor of Arts and Crafts Languages and Preparatory School
 Özgür KASIMAY ÇAKIR, 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
 Süheyla BOZKURT, Assoc. Professor of Pathology
 Şerife Çelebi, Instructor of School of Foreign Languages and Preparatory School

İnci ALİCAN, Professor of Physiology Medine Gülçebi İDRİZOĞLU, Assist. Professor of Pharmacology Nurver ÜLGER, Professor of Microbiology	Tayfur Toptaş, Assist. Professor of Internal medicine Uluhan SİLİ, Assist. Professor of Infectious Diseases Ufuk HASDEMİR, Professor of Microbiology Ümit ŞEHİRLİ, Professor of Anatomy Zafer GÖREN, Professor of Pharmacology
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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.
- KanHastalıkları, 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	21		21
Medical Biology	2		2
Medical Genetics	2		2
Pathology	5	1	6
Pediatrics	6		6
Pharmacology	6		6
Physiology	5	3	8
Microbiology	7	2	9
Public Health	2		2
Subtotal	79	12	91
PBL Module	8		8
ICS-2: HIM-Arts and Humanities	12		12
ICS-2: HIM-Social Concepts in Medicine	14		

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ICS-2: HIM-Ethics	12		12
Communication in Turkish-II	16		20
Communication in Turkish-Interactive Session	4		4
Elective Course-II MDCN181 MDCN182 MDCN184	8		10
TOTAL	153	12	165

		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
Week 1 (25th -29th December 2017)			
Monday	December 25th		
08:40-09:30			
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30			
14:40-15:30			
15:40-16-30			
16:40-17:30			
Tuesday	December 26th		
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,
14:40-15:30	Anatomy LAB: Anatomy of lymphoid organs		Dr. Berfu Çerçi Öngün
15:40-16-30	Constituents of blood		Dr. Ergül Mutlu Altundağ
16:40-17:30	STUDY TIME		
Wednesday	December 27th		
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

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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	December 28th	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	Histology of blood	Dr. Özlem Tuğçe Kaya
11:40-12:30	Histology of blood	Dr. Özlem Tuğçe Kaya
13:40-14:30	Lymphoid organs	Dr. Özlem Tuğçe Kaya
14:40-15:30	Lymphoid organs	Dr. Özlem Tuğçe Kaya
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	December 29th	
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	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	
15:40-16:30	Histology LAB: Blood and Lymphoid organs - Group B	
16:40-17:30	Histology LAB: Blood and Lymphoid organs - Group B	
Week 2 (1st -5th January 2018)		
Monday	January 1st	
08:40-09:30	NEW YEAR'S 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		

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Tuesday	January 2nd	
08:40-09:30	White and red blood cells	Dr. Özgür Kasımay Çakır
09:40-10:30	White and red blood cells	Dr. Özgür Kasımay Çakır
10:40-11:30	Blood groups	Dr. Özgür Kasımay Çakır
11:40-12:30	STUDY TIME	
13:40-14:30	Structure and function of white blood cells	Dr. Ergül Mutlu Altundağ
14:40-15:30	Structure and function of white blood cells	Dr. Ergül Mutlu Altundağ
15:40-16:30	Structure and function of erythrocytes	Dr. Saime Batirel
16:40-17:30	Structure and function of erythrocytes	Dr. Saime Batirel
Wednesday	January 3rd	
08:40-09:30	Physiology LAB: Blood Physiology-Group A	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
09:40-10:30	Physiology LAB: Blood Physiology-Group A	
10:40-11:30	Physiology LAB: Blood Physiology-Group A	
11:40-12:30	STUDY TIME	
13:40-14:30	Physiology LAB: Blood Physiology-Group B	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
14:40-15:30	Physiology LAB: Blood Physiology-Group B	
15:40-16:30	Physiology LAB: Blood Physiology-Group B	
16:40-17:30	STUDY TIME	
Thursday	January 4th	
08:40-09:30	Structure and function of hemoglobin	Dr. Saime Batirel
09:40-10:30	Structure and function of hemoglobin	Dr. Saime Batirel
10:40-11:30	Biochemical aspect of anemia	Dr. Saime Batirel
11:40-12:30	Biochemical aspect of anemia	Dr. Saime Batirel
13:40-14:30	Biochemistry LAB: Examination of red blood cells - Group A	Dr. Saime Batirel, Dr. Ergül Mutlu Altundağ, Inst. Duygu Gençalp
14:40-15:30	Biochemistry LAB: Examination of red blood cells - Group A	
15:40-16:30	Biochemistry LAB: Examination of red blood cells - Group B	
16:40-17:30	Biochemistry LAB: Examination of red blood cells - Group B	
Friday	January 5th	
08:40-09:30	Y3C2 THEORETICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		

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13:40-14:30	Malaria and other infections due to blood and tissue protozoa	Dr. Nurver Ülger
14:40-15:30	Malaria and other infections due to blood and tissue protozoa	Dr. Nurver Ülger
15:40-16:30	Microbiology LAB: Diagnosis of hematopoietic system infections	Dr. Nurver Ülger,
16:40-17:30	Microbiology LAB: Diagnosis of hematopoietic system infections	Dr. Mümtaz Güran
Week 3 (08th -12th January 2018)		
Monday	January 8th	
08:40-09:30	Communication in Turkish-II	Inst. Nevber İstillozlu
09:40-10:30	Communication in Turkish-II	Inst. Nevber İstillozlu
10:40-11:30	Communication in Turkish-II	Inst. Nevber İstillozlu
11:40-12:30	Communication in Turkish-II	Inst. Nevber İstillozlu
13:40-14:30	Elective Course-II MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
14:40-15:30	Elective Course-II MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Tuesday	January 9th	
08:40-09:30	STUDY TIME	
09:40-10:30	Genetics of hematological disorders	Dr. Pınar Ata
10:40-11:30	Genetics of hematological disorders	Dr. Pınar Ata
11:40-12:30	STUDY TIME	
13:40-14:30	PBL-MODULE 1	Dr. Eren Sakallı, Dr. Mevhibe Hocaoğlu, Dr. Masoud Afshani, Dr. Hasan Toper
14:40-15:30	PBL-MODULE 1	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Wednesday	January 10th	
08:40-09:30	ICS-2: HIM-Arts and Humanities	
09:40-10:30	ICS-2: HIM-Arts and Humanities	

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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	
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	
15:40-16:30	ICS-2: HIM-Arts and Humanities	
16:40-17:30	ICS-2: HIM-Arts and Humanities	
Thursday	January 11th	
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	
10:40-11:30	ICS-2: HIM-Arts and Humanities	
11:40-12:30	ICS-2: HIM-Arts and Humanities	
13:40-14:30	(Case) An adult patient with lymphadenopathies	Dr. Mehmet Akman
14:40-15:30	Systemic fungal infections	Dr. Nilgün Çerikçioğlu
15:40-16:30	Systemic fungal infections	Dr. Nilgün Çerikçioğlu
16:40-17:30	STUDY TIME	
Friday	January 12th	
08:40-09:30	Y1C2 THEORETICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Pathology of bone marrow (Remote session)	Dr. Kemal Türköz
14:40-15:30	Pathology of bone marrow (Remote session)	Dr. Kemal Türköz
15:40-16:30	Epidemiology of diseases spread by arthropod vectors	Dr. Ahmet Topuzoğlu
16:40-17:30	Epidemiology of diseases spread by arthropod vectors	Dr. Ahmet Topuzoğlu
Week 4 (15th -19th January 2018)		
Monday	January 15th	
08:40-09:30	Communication in Turkish-II	Inst. Nevber İstillozlu
09:40-10:30	Communication in Turkish-II	Inst. Nevber İstillozlu
10:40-11:30	Communication in Turkish-II	Inst. Nevber İstillozlu
11:40-12:30	Communication in Turkish-II	Inst. Nevber İstillozlu

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13:40-14:30	Elective Course-II MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
14:40-15:30	Elective Course-II MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Tuesday	January 16th	
08:40-09:30	STUDY TIME	
09:40-10:30	Infections in immunocompromised host	Dr. Uluhan Sili
10:40-11:30	Sepsis	Dr. Uluhan Sili
11:40-12:30	Infectious mononucleosis	Dr. Uluhan Sili
13:40-14:30	PBL-MODULE 2	Dr. Eren Sakallı, Dr. Mevhibe Hocaoğlu, Dr. Masoud Afshani, Dr. Hasan Topper
14:40-15:30	PBL-MODULE 2	
15:40-16:30	Molecular basis of hemoglobinopathies (Remote Session)	Dr. Can Erzik
16:40-17:30	DNA diagnosis of hemaglobinopathies (Remote Session)	Dr. Can Erzik
Wednesday	January 17th	
08:40-09:30	STUDY TIME	
09:40-10:30	Non-neoplastic disorders of lymph node and spleen	Dr. Süheyla Bozkurt
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	Pathology LAB: Pathology of bone marrow and lymphoid tissues - A	Dr. Süheyla Bozkurt, Dr. Hasan Topper
14:40-15:30	Pathology LAB: Pathology of bone marrow and lymphoid tissues - B	
15:40-16:30	Hematopoiesis	Dr. Masoud Afshani
16:40-17:30	STUDY TIME	
Thursday	January 18th	

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08:40-09:30	Communication in Turkish (CiT)-Interactive Session	Inst. Nevber İstillozlu
09:40-10:30	Communication in Turkish (CiT)-Interactive Session	Inst. Nevber İstillozlu
10:40-11:30	Platelets: Coagulation and fibrinolysis (Remote Session)	Dr. İnci Alican
11:40-12:30	Platelets: Coagulation and fibrinolysis (Remote Session)	Dr. İnci Alican
13:40-14:30	ICS-2: HIM-Ethics	Şefik Görkey
14:40-15:30	ICS-2: HIM-Ethics	Şefik Görkey
15:40-16:30	ICS-2: HIM-Ethics	Şefik Görkey
16:40-17:30	ICS-2: HIM-Ethics	Şefik Görkey
Friday	January 19th	
08:40-09:30	ICS-2: HIM-Ethics	Şefik Görkey
09:40-10:30	ICS-2: HIM-Ethics	Şefik Görkey
10:40-11:30	ICS-2: HIM-Ethics	Şefik Görkey
11:40-12:30	ICS-2: HIM-Ethics	Şefik Görkey
13:40-14:30	ICS-2: HIM-Ethics	Şefik Görkey
14:40-15:30	ICS-2: HIM-Ethics	Şefik Görkey
15:40-16:30	ICS-2: HIM-Ethics	Şefik Görkey
16:40-17:30	ICS-2: HIM-Ethics	Şefik Görkey
Week 5 (22nd-26th January 2018)		
Monday	January 22st	
08:40-09:30	Communication in Turkish-II	Inst. Nevber İstillozlu
09:40-10:30	Communication in Turkish-II	Inst. Nevber İstillozlu
10:40-11:30	Communication in Turkish-II	Inst. Nevber İstillozlu
11:40-12:30	Communication in Turkish-II	Inst. Nevber İstillozlu
13:40-14:30	Elective Course-II MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
14:40-15:30	Elective Course-II MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	

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Tuesday	January 23nd	
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	
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	ICS-2: HIM-Social Concept in Medicine	
Wednesday	January 24rd	
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	Toxoplasmosis (Remote Session)	Dr. Ufuk Hasdemir
14:40-15:30	Pharmacotherapy of anemia	Dr. Zafer Gören
15:40-16:30	Pharmacotherapy of anemia	Dr. Zafer Gören
16:40-17:30	Hematopoietic agents: growth factors	Dr. Zafer Gören
Thursday	January 25th	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	PBL-MODULE 3	Dr. Eren Sakallı, Dr. Mevhibe Hocaoğlu, Dr. Masoud Afshani, Dr. Hasan Toper
11:40-12:30	PBL-MODULE 3	Dr. Eren Sakallı, Dr. Mevhibe Hocaoğlu, Dr. Masoud Afshani, Dr. Hasan Toper
13:40-14:30	Sickle cell disease	Dr. Tayfur Toptaş
14:40-15:30	Thalassemias	Dr. Tayfur Toptaş
15:40-16:30	Hemophilia	Dr. Tayfur Toptaş
16:40-17:30	Megaloblastic anemias	Dr. Tayfur Toptaş
Friday	January 26th	
08:40-09:30	Reading blood smear (slide show)	Dr. Tayfur Toptaş

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09:40-10:30	Immune hemolytic anemias	Dr. Tayfur Toptaş
10:40-11:30	Non-immune acquired hemolytic anemias	Dr. Tayfur Toptaş
11:40-12:30	Iron metabolism and iron deficiencies	Dr. Tayfur Toptaş
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Week 6 & 7 (January 29th - February 9th 2018)		
SEMESTER HOLIDAY (January 29th - February 9th 2018)		
Week 8 (February 12th – 16th 2018)		
Monday	February 12th	
08:40-09:30	Communication in Turkish-II	Inst. Nevber İstillozlu
09:40-10:30	Communication in Turkish-II	Inst. Nevber İstillozlu
10:40-11:30	Communication in Turkish-II	Inst. Nevber İstillozlu
11:40-12:30	Communication in Turkish-II	Inst. Nevber İstillozlu
13:40-14:30	Elective Course-II MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
14:40-15:30	Elective Course-II MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Tuesday	February 13th	
08:40-09:30	Communication in Turkish (CiT)-Interactive Session	Inst. Emine Özerinç

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09:40-10:30	Communication in Turkish (CiT)-Interactive Session	Inst. Emine Özerinç
10:40-11:30	Aplastic anemia	Dr. Tayfur Toptaş
11:40-12:30	Quantitative disorders of platelets	Dr. Tayfur Toptaş
13:40-14:30	Thrombocytopenias and Immune Thrombocytopenic Purpura	Dr. Tayfur Toptaş
14:40-15:30	Acquired and congenital thrombophilias	Dr. Tayfur Toptaş
15:40-16:30	Transfusion medicine: Blood components	Dr. Tayfur Toptaş
16:40-17:30	Blood transfusion indications and complications	Dr. Tayfur Toptaş
Wednesday	February 14th	
08:40-09:30	Myelodysplastic syndrome	Dr. Tayfur Toptaş
09:40-10:30	Myeloproliferative disorders: CML, Polycythemia Vera, essential thrombocytosis and primary myelofibrosis	Dr. Tayfur Toptaş
10:40-11:30	Myeloproliferative disorders: CML, Polycythemia Vera, essential thrombocytosis and primary myelofibrosis	Dr. Tayfur Toptaş
11:40-12:30	Chronic lymphocytic leukemia's (CLL)	Dr. Tayfur Toptaş
13:40-14:30	Acute leukemia's: Classification and molecular aspect	Dr. Tayfur Toptaş
14:40-15:30	Acute leukemia's: Classification and molecular aspect	Dr. Tayfur Toptaş
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	February 15th	
08:40-09:30	STUDY TIME	
09:40-10:30	Biological modifiers	Dr. Eren Sakallı
10:40-11:30	Heavy metals and antagonists	Dr. Eren Sakallı
11:40-12:30	Development of lymphoid organs	Dr. Masoud Afshani
13:40-14:30	PBL-MODULE 4	Dr. Eren Sakallı, Dr. Mevhibe Hocaoğlu, Dr. Masoud Afshani, Dr. Hasan Toper
14:40-15:30	PBL-MODULE 4	
15:40-16:30	Vector borne diseases	Dr. Burak Aksu
16:40-17:30	Vector borne diseases	Dr. Burak Aksu
Friday	February 16th	
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	

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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	
Week 9 (19th -23th February 2018)		
Monday	February 19th	
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	February 20th	
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	
Wednesday	February 21st	
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	February 22nd	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	

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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	February 23rd	
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		