



HEMATOPOIETIC SYSTEM AND RELATED DISORDERS  
YEAR 2 COURSE 3  
December 19th, 2016 – February 17th, 2017

<b>Coordinator of the Course 2.3</b> Inst. Masoud AFSHANI	
<b>Coordinator of Multidisciplinary Students' Lab.</b> Assist. Prof. Mümtaz GÜRAN	<b>Coordinator of Clinical Skill Lab.</b> Dr. Berfu Çerçi ÖNGÜN
<b>Coordinator of Assessment Unit</b> Asist. Prof., Mümtaz GÜRAN, Assist. Prof. Dr. Mevhibe HOCAOĞLU, Asist. Prof., İlke Çetin Akçay	<b>Coordinator of ICS Res. Lab.</b> Assist. Prof. İlke Çetin Akçay
<b>Year 2 Coordinators</b> Assoc. Prof., Özgür Kasımay ÇAKIR	
<b>Module Coordinator</b> Assoc. Prof., Özlem SARIKAYA	<b>Introduction to Clinician Skills(ICS) Coordinators</b> Prof., Sibel SAKARYA, Assoc. Prof., Pemra ÜNALAN
<b>Coordinator of Multidisciplinary Students' Lab.</b> Assoc. Prof., Betül KARADEMİR	<b>Coordinator of Assessment Unit</b> Asist. Prof., Cevdet NACAR
<b>Vice-Chief Coordinators</b>	
<b>Assessment</b> Asist. Prof., Cevdet NACAR	<b>Students' Affairs</b> Asist. Prof., Can ERZİK
<b>Chief Coordinator</b> Assoc. Prof., Hasan YANANLI	<b>Coordinator of Medical Education Program Evaluation and Development Commission</b> Prof., Berrak Ç. YEĞEN
<b>Educational Consultant</b> Assoc. Prof., Mehmet Ali GÜLPINAR	
<b>Dean (EMU)</b> Prof., Nahide GÖKÇORA	<b>Dean (MU)</b> Prof., Ömer GÜNAL

## 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

Alper YILDIRIM, Assist. Professor of Physiology  
Berfu Çerçi ÖNGÜN, Instructor of Anatomy  
Burak AKSU, Asist. Prof. of Microbiology  
Can ERZİK, Assist. Professor of Medical Biology  
Dilek AKALIN, Assoc. Professor of Histology-Embriology  
Emine ÖZERİNÇ, Instructor of School of Foreign Languages and Preparatory School  
Goncagül HAKLAR, Professor of Biochemistry  
Hızır KURTEL, Professor of Physiology  
Kemal TÜRKÖZ, Assist. Professor of Pathology  
İnci ALİCAN, Professor of Physiology  
Masoud AFSHANI, Instructor of Histology-Embryology  
Medine Gülçebi İDRİZOĞLU, , Assist. Professor of Pharmacology  
Mehmet AKMAN Assoc. Professor of Family Medicine

Osman KARA, Instructor of Internal Medicine  
Ömer DOĞRU, Assist. Professor of Pediatrics  
Önder ŞİRİKÇİ, Professor of Biochemistry  
Pemra ÜNALAN, Assoc. Prof. Family Medicine  
Pınar ATA, Assoc. Professor of Medical Genetics  
Pınar AY, Assoc. Prof. Public Health  
Saime BATIREL, Assist. Professor of Biochemistry  
Serap ÇİFÇİLİ, Assoc. Prof. Family Medicine  
Süheyla BOZKURT, Assoc. Professor of Pathology  
Şerife Çelebi, Instructor of School of Foreign Languages and Preparatory School  
Uluhan SİLİ, Assist. Professor of Infectious Diseases  
Ufuk HASDEMİR, Professor of Microbiology  
Ümit ŞEHİRLİ, Professor of Anatomy  
Zafer GÖREN, Professor of Pharmacology

Mümtaz GÜRAN, Assist. Professor of Microbiology  
 Nilgün ÇERİKÇİOĞLU, Professor of Microbiology  
 Nurver ÜLGER, Professor of Microbiology

#### 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, c.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	3	8
Pediatrics	6		6
Pharmacology	6		6
Physiology	5	3	8
Microbiology	7	2	9
Public Health	2		2
<b>Subtotal</b>	<b>79</b>	<b>14</b>	<b>93</b>
<b>PBL Module</b>	<b>8</b>		<b>8</b>
<b>ICS-2: Basic Clinical Skills, Human in Medicine, Students Research Activity</b>	<b>24</b>		<b>24</b>
<b>Communication in Turkish (Foreign Students)</b>	<b>26</b>		<b>26</b>
<b>TOTAL</b>	<b>137</b>	<b>14</b>	<b>151</b>

	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
<b>Week 1 (30-19 December 2016)</b>		
<b>Monday</b>	<b>19 December</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>	Introduction to the course and opening lecture	Inst. Masoud Afshani
<b>11:40-12:30</b>	Malaria and other infections due to blood and tissue protozoa	Dr. Nurver Ülger
<b>13:40-14:30</b>	Malaria and other infections due to blood and tissue protozoa	Dr. Nurver Ülger
<b>14:40-15:30</b>	<b>Microbiology LAB:</b> Diagnosis of hematopoietic system infections	Dr. Nurver Ülger
<b>15:40-16:30</b>	<b>Microbiology LAB:</b> Diagnosis of hematopoietic system infections	Dr. Nurver Ülger
<b>16:40-17:30</b>		
<b>Tuesday</b>	<b>20 December</b>	
<b>08:40-09:30</b>	Anatomy of lymphoid organs	Dr. Ümit Şehirli
<b>09:40-10:30</b>	Lymphoid circulation	Dr. Ümit Şehirli
<b>10:40-11:30</b>	<b>Anatomy LAB:</b> Anatomy of lymphoid organs	Dr. Ümit Şehirli, Dr. Berfu Çerçi Öngün
<b>11:40-12:30</b>	<b>Anatomy LAB:</b> Anatomy of lymphoid organs	Dr. Ümit Şehirli, Dr. Berfu Çerçi Öngün
<b>13:40-14:30</b>	<b>Elective course</b>	
<b>14:40-15:30</b>	<b>Elective course</b>	
<b>15:40-16:30</b>	<b>Elective course</b>	
<b>16:40-17:30</b>	<b>Elective course</b>	
<b>Wednesday</b>	<b>21 December</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>	Constituents of blood	Dr. Önder Şirikçi
<b>10:40-11:30</b>	Structure and function of white blood cells	Dr. Goncagül Haklar
<b>11:40-12:30</b>	Structure and function of white blood cells	Dr. Goncagül Haklar
<b>13:40-14:30</b>	Biochemistry of blood coagulation and fibrinolysis	Dr. Goncagül Haklar
<b>14:40-15:30</b>	Biochemistry of blood coagulation and fibrinolysis	Dr. Goncagül Haklar
<b>15:40-16:30</b>	Communication in Turkish III (Review Session / Foreign Students)	Emine Özerinç
<b>16:40-17:30</b>	Communication in Turkish III (Review Session / Foreign Students)	Emine Özerinç

<b>Thursday</b>	<b>22 December</b>	
<b>08:40-09:30</b>	Histology of blood	Dr. Dilek Akakın
<b>09:40-10:30</b>	Histology of blood	Dr. Dilek Akakın
<b>10:40-11:30</b>	Lymphoid organs	Dr. Dilek Akakın
<b>11:40-12:30</b>	Lymphoid organs	Dr. Dilek Akakın
<b>13:40-14:30</b>	<b>Histology LAB:</b> Blood and Lymphoid organs - Group A	Dr. Dilek Akakın, Inst. Masoud Afshani
<b>14:40-15:30</b>	<b>Histology LAB:</b> Blood and Lymphoid organs - Group A	Dr. Dilek Akakın, Inst. Masoud Afshani
<b>15:40-16:30</b>	<b>Histology LAB:</b> Blood and Lymphoid organs - Group B	Dr. Dilek Akakın, Inst. Masoud Afshani
<b>16:40-17:30</b>	<b>Histology LAB:</b> Blood and Lymphoid organs - Group B	Dr. Dilek Akakın, Inst. Masoud Afshani
<b>Friday</b>	<b>23 December</b>	
<b>08:40-09:30</b>	White and red blood cells	Dr. Hızır Kurtel
<b>09:40-10:30</b>	White and red blood cells	Dr. Hızır Kurtel
<b>10:40-11:30</b>	<b>Communication in Turkish III</b> (Foreign Students)	Emine Özeriç, Şerife Çelebi Sökmez
<b>11:40-12:30</b>	<b>Communication in Turkish III</b> (Foreign Students)	Emine Özeriç, Şerife Çelebi Sökmez
<b>13:40-14:30</b>	<b>Communication in Turkish III</b> (Foreign Students)	Emine Özeriç, Şerife Çelebi Sökmez
<b>14:40-15:30</b>	<b>Communication in Turkish III</b> (Foreign Students)	Emine Özeriç, Şerife Çelebi Sökmez
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Week 2 (26-30 December 2016)</b>		
<b>Monday</b>	<b>26 December</b>	
<b>08:40-09:30</b>	<b>Communication in Turkish III</b> (Review Session / Foreign Students)	Emine Özeriç
<b>09:40-10:30</b>	<b>Communication in Turkish III</b> (Review Session / Foreign Students)	Emine Özeriç
<b>10:40-11:30</b>	Structure and function of erythrocytes	Dr. Saime Batirel
<b>11:40-12:30</b>	Structure and function of erythrocytes	Dr. Saime Batirel
<b>13:40-14:30</b>	<b>Biochemistry LAB:</b> Examination of red blood cells-Group A	Dr. Saime Batirel
<b>14:40-15:30</b>	<b>Biochemistry LAB:</b> Examination of red blood cells-Group A	Dr. Saime Batirel
<b>15:40-16:30</b>	<b>Biochemistry LAB:</b> Examination of red blood cells-Group B	Dr. Saime Batirel
<b>16:40-17:30</b>	<b>Biochemistry LAB:</b> Examination of red blood cells-Group B	Dr. Saime Batirel
<b>Tuesday</b>	<b>27 December</b>	
<b>08:40-09:30</b>	Structure and function of hemoglobin	Dr. Saime Batirel
<b>09:40-10:30</b>	Structure and function of hemoglobin	Dr. Saime Batirel
<b>10:40-11:30</b>	Biochemical aspect of anemia	Dr. Saime Batirel

<b>11:40-12:30</b>	Biochemical aspect of anemia	Dr. Saime Batirel
<b>13:40-14:30</b>	<b>Elective course</b>	
<b>14:40-15:30</b>	<b>Elective course</b>	
<b>15:40-16:30</b>	<b>Elective course</b>	
<b>16:40-17:30</b>	<b>Elective course</b>	
<b>Wednesday</b>	<b>28 December</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>	Molecular basis of hemoglobinopathies	Dr. Can Erzik
<b>11:40-12:30</b>	DNA diagnosis of hemaglobinopathies	Dr. Can Erzik
<b>13:40-14:30</b>	(Case) An adult patient with lymphadenopathies	Dr. Mehmet Akman
<b>14:40-15:30</b>	Biological modifiers	Dr. Medine Gülçebi İdriz Oğlu
<b>15:40-16-30</b>	<b>Communication in Turkish III</b> (Review Session / Foreign Students)	Emine Özerinç
<b>16:40-17:30</b>	<b>Communication in Turkish III</b> (Review Session / Foreign Students)	Emine Özerinç
<b>Thursday</b>	<b>29 December</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>	Genetics of hematological disorders	Dr. Pınar Ata
<b>11:40-12:30</b>	Genetics of hematological disorders	Dr. Pınar Ata
<b>13:40-14:30</b>	<b>Communication in Turkish III</b> (Foreign Students)	Emine Özerinç, Şerife Çelebi Sökmez
<b>14:40-15:30</b>	<b>Communication in Turkish III</b> (Foreign Students)	Emine Özerinç, Şerife Çelebi Sökmez
<b>15:40-16-30</b>	<b>Communication in Turkish III</b> (Foreign Students)	Emine Özerinç, Şerife Çelebi Sökmez
<b>16:40-17:30</b>	<b>Communication in Turkish III</b> (Foreign Students)	Emine Özerinç, Şerife Çelebi Sökmez
<b>Friday</b>	<b>30 December</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>		
<b>14:40-15:30</b>		
<b>15:40-16-30</b>		
<b>16:40-17:30</b>		

**Week 3 (02-06 January 2017)**

<b>Week 3 (02-06 January 2017)</b>		
<b>Monday</b>	<b>02 January</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>	<b>Communication in Turkish III (Foreign Students)</b>	Emine Özerinç, Şerife Çelebi Sökmez
<b>11:40-12:30</b>	<b>Communication in Turkish III (Foreign Students)</b>	Emine Özerinç, Şerife Çelebi Sökmez
<b>13:40-14:30</b>	Systemic fungal infections	Dr. Nilgün Çerikçioğlu
<b>14:40-15:30</b>	Systemic fungal infections	Dr. Nilgün Çerikçioğlu
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Tuesday</b>	<b>03 January</b>	
<b>08:40-09:30</b>	Blood groups	Dr. Alper Yıldırım
<b>09:40-10:30</b>	<b>Physiology LAB: Blood Physiology-Group A</b>	Dr. Alper Yıldırım
<b>10:40-11:30</b>	<b>Physiology LAB: Blood Physiology-Group A</b>	Dr. Alper Yıldırım
<b>11:40-12:30</b>	<b>Physiology LAB: Blood Physiology-Group A</b>	Dr. Alper Yıldırım
<b>13:40-14:30</b>	<b>Elective course</b>	
<b>14:40-15:30</b>	<b>Elective course</b>	
<b>15:40-16:30</b>	<b>Elective course</b>	
<b>16:40-17:30</b>	<b>Elective course</b>	
<b>Wednesday</b>	<b>04 January</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>	<b>Physiology LAB: Blood Physiology-Group B</b>	Dr. Alper Yıldırım
<b>10:40-11:30</b>	<b>Physiology LAB: Blood Physiology-Group B</b>	Dr. Alper Yıldırım
<b>11:40-12:30</b>	<b>Physiology LAB: Blood Physiology-Group B</b>	Dr. Alper Yıldırım
<b>13:40-14:30</b>	Infections in immunocompromised host	Dr. Uluhan Sili
<b>14:40-15:30</b>	Sepsis	Dr. Uluhan Sili
<b>15:40-16:30</b>	Infectious mononucleosis	Dr. Uluhan Sili
<b>16:40-17:30</b>	Toxoplasmosis	Dr. Münevver Ufuk Över Hasdemir
<b>Thursday</b>	<b>05 January</b>	
<b>08:40-09:30</b>	Epidemiology of diseases spread by arthropod vectors	Dr. Nadiye Pınar Ay
<b>09:40-10:30</b>	Epidemiology of diseases spread by arthropod vectors	Dr. Nadiye Pınar Ay
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		



<b>13:40-14:30</b>	Non-neoplastic disorders of lymph node and spleen	Dr. Süheyla Bozkurt
<b>14:40-15:30</b>	Neoplastic disorders of lymph node and spleen	Dr. Süheyla Bozkurt
<b>15:40-16:30</b>	Neoplastic disorders of lymph node and spleen	Dr. Süheyla Bozkurt
<b>16:40-17:30</b>		
<b>Friday</b>	<b>06 January</b>	
<b>08:40-09:30</b>	Hematopoiesis	Dr. Özlem Tuğçe Çilingir
<b>09:40-10:30</b>	Development of lymphoid organs	Dr. Özlem Tuğçe Çilingir
<b>10:40-11:30</b>	Pathology of bone marrow	Dr. Hüseyin Kemal Türköz
<b>11:40-12:30</b>	Pathology of bone marrow	Dr. Hüseyin Kemal Türköz
<b>13:40-14:30</b>	<b>Pathology LAB:</b> Pathology of bone marrow and lymphoid tissues	Dr. Hüseyin Kemal Türköz
<b>14:40-15:30</b>	<b>Pathology LAB:</b> Pathology of bone marrow and lymphoid tissues	Dr. Hüseyin Kemal Türköz
<b>15:40-16:30</b>	<b>Pathology LAB:</b> Pathology of bone marrow and lymphoid tissues	Dr. Hüseyin Kemal Türköz
<b>16:40-17:30</b>		
<b>Week 4 (09-13 January 2017)</b>		
<b>Monday</b>	<b>09 January</b>	
<b>08:40-09:30</b>	<b>Communication in Turkish III</b> (Foreign Students)	Emine Özerinç, Şerife Çelebi Sökmez
<b>09:40-10:30</b>	<b>Communication in Turkish III</b> (Foreign Students)	Emine Özerinç, Şerife Çelebi Sökmez
<b>10:40-11:30</b>	<b>PBL-MODULE 1</b>	
<b>11:40-12:30</b>	<b>PBL-MODULE 1</b>	
<b>13:40-14:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>14:40-15:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>15:40-16:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>16:40-17:30</b>		
<b>Tuesday</b>	<b>10 January</b>	
<b>08:40-09:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>09:40-10:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>10:40-11:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>11:40-12:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili

<b>13:40-14:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın, Dr. Serap Çiççili
<b>14:40-15:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın, Dr. Serap Çiççili
<b>15:40-16:30</b>	<b>Elective course</b>	
<b>16:40-17:30</b>	<b>Elective course</b>	
<b>Wednesday</b>	<b>11 January</b>	
<b>08:40-09:30</b>	Introduction to hemolytic anemia's of and mechanism of hemolysis	Dr. Ömer Dođru
<b>09:40-10:30</b>	Hemolytic anemia's due to membrane and enzyme defects	Dr. Ömer Dođru
<b>10:40-11:30</b>	<b>PBL-MODULE 2</b>	
<b>11:40-12:30</b>	<b>PBL-MODULE 2</b>	
<b>13:40-14:30</b>	Sickle cell disease	Dr. Ömer Dođru
<b>14:40-15:30</b>	Thalassemias	Dr. Ömer Dođru
<b>15:40-16:30</b>	Introduction to hematology, stem cell, and hematopoiesis	Dr. Osman Kara
<b>16:40-17:30</b>	Classification and clinical approach to anemia	Dr. Osman Kara
<b>Thursday</b>	<b>12 January</b>	
<b>08:40-09:30</b>	Hemophilia	Dr. Ömer Dođru
<b>09:40-10:30</b>	Quantitative disorders of platelets	Dr. Ömer Dođru
<b>10:40-11:30</b>	Megaloblastic anemias	Dr. Osman Kara
<b>11:40-12:30</b>	Immune hemolytic anemias	Dr. Osman Kara
<b>13:40-14:30</b>	Non-immune acquired hemolytic anemias	Dr. Osman Kara
<b>14:40-15:30</b>	Transfusion medicine: Blood components	Dr. Osman Kara
<b>15:40-16:30</b>	Platelets: Coagulation and fibrinolysis	Dr. Yařar İnci Alican
<b>16:40-17:30</b>	Platelets: Coagulation and fibrinolysis	Dr. Yařar İnci Alican
<b>Friday</b>	<b>13 January</b>	
<b>08:40-09:30</b>	Multiple myeloma and other paraproteinemias	Dr. Osman Kara
<b>09:40-10:30</b>	Blood transfusion indications and complications	Dr. Osman Kara
<b>10:40-11:30</b>	Reading blood smear (slide show)	Dr. Osman Kara
<b>11:40-12:30</b>	Iron metabolism and iron deficiencies	Dr. Osman Kara
<b>13:40-14:30</b>	Aplastic anemia	Dr. Osman Kara

<b>14:40-15:30</b>	Vector borne diseases	Dr. Mehmet Burak Aksu
<b>15:40-16:30</b>	Vector borne diseases	Dr. Mehmet Burak Aksu
<b>16:40-17:30</b>		
<b>Week 5 (16-20 January 2017)</b>		
<b>Monday</b>	<b>16 January</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>	<b>PBL-MODULE 3</b>	
<b>11:40-12:30</b>	<b>PBL-MODULE 3</b>	
<b>13:40-14:30</b>	Thrombocytopenias and Immune Thrombocytopenic Purpura	Dr. Osman Kara
<b>14:40-15:30</b>	Myelodysplastic syndrome	Dr. Osman Kara
<b>15:40-16:30</b>	Acquired and congenital thrombophilias	Dr. Osman Kara
<b>16:40-17:30</b>		
<b>Tuesday</b>	<b>17 January</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>	Myeloproliferative disorders: CML, Polycythemia Vera, essential thrombocytosis and primary myelofibrosis	Dr. Osman Kara
<b>10:40-11:30</b>	Myeloproliferative disorders: CML, Polycythemia Vera, essential thrombocytosis and primary myelofibrosis	Dr. Osman Kara
<b>11:40-12:30</b>	Chronic lymphocytic leukemia's (CLL)	Dr. Osman Kara
<b>13:40-14:30</b>	<b>Elective course</b>	
<b>14:40-15:30</b>	<b>Elective course</b>	
<b>15:40-16:30</b>	<b>Elective course</b>	
<b>16:40-17:30</b>	<b>Elective course</b>	
<b>Wednesday</b>	<b>18 January</b>	
<b>08:40-09:30</b>	Acute leukemia's: Classification and molecular aspect	Dr. Osman Kara
<b>09:40-10:30</b>	Acute leukemia's: Classification and molecular aspect	Dr. Osman Kara
<b>10:40-11:30</b>	Hodgkin disease and non-Hodgkin lymphomas	Dr. Osman Kara
<b>11:40-12:30</b>	Hodgkin disease and non-Hodgkin lymphomas	Dr. Osman Kara
<b>13:40-14:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın
<b>14:40-15:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın
<b>15:40-16:30</b>	<b>ICS-2: History Taking and Introduction to Physical Examination Course</b>	Dr. Gülru Pemra Ünalın
<b>16:40-17:30</b>		

<b>Thursday</b>	<b>19 January</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>10:40-11:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>11:40-12:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>13:40-14:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>14:40-15:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>15:40-16:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>16:40-17:30</b>		
<b>Friday</b>	<b>20 January</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>10:40-11:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>11:40-12:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>13:40-14:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>14:40-15:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>15:40-16:30</b>	ICS-2: History Taking and Introduction to Physical Examination Course	Dr. Gülru Pemra Ünalın, Dr. Serap Çifçili
<b>16:40-17:30</b>		
<b>Week 6 (23-27 January 2017)</b>		
<b>Monday</b>	<b>23 January</b>	
<b>08:40-09:30</b>	<b>Communication in Turkish III</b> (Review Session / Foreign Students)	Emine Özerinç
<b>09:40-10:30</b>	<b>Communication in Turkish III</b> (Review Session / Foreign Students)	Emine Özerinç
<b>10:40-11:30</b>	<b>PBL-MODULE 4</b>	
<b>11:40-12:30</b>	<b>PBL-MODULE 4</b>	
<b>13:40-14:30</b>	Pharmacotherapy of anemia	Dr. Zafer Gören
<b>14:40-15:30</b>	Pharmacotherapy of malaria	Dr. Zafer Gören
<b>15:40-16:30</b>	Hematopoietic agents: growth factors	Dr. Zafer Gören
<b>16:40-17:30</b>		

<b>Tuesday</b>	<b>24 January</b>	
<b>08:40-09:30</b>	<b>Communication in Turkish III (Review Session / Foreign Students)</b>	Emine Özerinç
<b>09:40-10:30</b>	<b>Communication in Turkish III (Review Session / Foreign Students)</b>	Emine Özerinç
<b>10:40-11:30</b>	Heavy metals and antagonists	Dr. Zafer Gören
<b>11:40-12:30</b>	Anticancer Chemotherapy	Dr. Zafer Gören
<b>13:40-14:30</b>	<b>Elective course</b>	
<b>14:40-15:30</b>	<b>Elective course</b>	
<b>15:40-16:30</b>	<b>Elective course</b>	
<b>16:40-17:30</b>	<b>Elective course</b>	
<b>Wednesday</b>	<b>25 January</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>	<b>Communication in Turkish III (Foreign Students)</b>	Emine Özerinç, Şerife Çelebi Sökmez
<b>11:40-12:30</b>	<b>Communication in Turkish III (Foreign Students)</b>	Emine Özerinç, Şerife Çelebi Sökmez
<b>13:40-14:30</b>	<b>Communication in Turkish III (Foreign Students)</b>	Emine Özerinç, Şerife Çelebi Sökmez
<b>14:40-15:30</b>	<b>Communication in Turkish III (Foreign Students)</b>	Emine Özerinç, Şerife Çelebi Sökmez
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Thursday</b>	<b>26 January</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>		
<b>14:40-15:30</b>		
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Friday</b>	<b>27 January</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		

<b>13:40-14:30</b>		
<b>14:40-15:30</b>		
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Week 7 (13-17 February 2017)</b>		
<b>Monday</b>	<b>13 February</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>	<b>PRACTICAL EXAM</b>	
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>		
<b>14:40-15:30</b>		
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Tuesday</b>	<b>14 February</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>	<b>PRACTICAL EXAM</b>	
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>		
<b>14:40-15:30</b>		
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Wednesday</b>	<b>15 February</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>		
<b>14:40-15:30</b>		
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Thursday</b>	<b>16 February</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		

<b>13:40-14:30</b>		
<b>14:40-15:30</b>		
<b>15:40-16-30</b>		
<b>16:40-17:30</b>		
<b>Friday</b>	<b>17 February</b>	
<b>08:40-09:30</b>	<b>Y2C3 THEORETICAL EXAM – AT 09:00</b>	
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>		
<b>14:40-15:30</b>		
<b>15:40-16-30</b>		