BIRUNI ENGLISH MEDICAL SCHOOL ACADEMIC PROGRAM BOOK

ENGLISH MEDICAL SCHOOL PHASE II (2022 - 2023)						
Code	**Course Title**	**C/E**	**ECTS**	**T**	**P**	**TOTAL**
EMS200	Phase II Committee Courses (Integrated)	**C**	**46**			
EMS201	Neoplasia-Infection and hematopoietic (Basics)	C	3	123	25	148
EMS202	Neoplasia-Infection and hematopoietic (Clinics)	C	3			
EMS203	Musculoskeletal System	C	4	74	2	76
EMS204	Central Nervous System I	C	8	82	22	104
EMS205	Central Nervous System II	C	8	75	11	86
EMS206	Cardiovascular System (Basics)	C	5	99	25	123
EMS207	Cardiovascular System (Clinics)	C	5			
EMS208	Respiratory System (Basics)	C	5	88	21	110
EMS209	Respiratory System (Clinics)	C	5			
RES200	Medical Research II (spring)	C	2	28	0	28
ATA 101	Principles of Atatürk and History of Turkish Revolution-I	C	2	28	0	28
ATA 102	Principles of Atatürk and History of Turkish Revolution-II	C	2	28	0	28
TDI101	Turkish Language-I	C	2	28	0	28
TDI102	Turkish Language-II	C	2	28	0	28
BIR322	Volunteer Studies (spring)	C	4	28	0	28
	TOTAL		**60**	**709**	**106**	**815**

PHASE II

AIM

Students will gain an appreciation of the role of a futuristic physician with a system based educational approach incorporating clinical and basic sciences, encouraging them to meet patients.

LEARNING OBJECTIVES

At the end of phase II, the students will be able to;

1.**explain and apply** the basics concepts of medical research,

2. **define** the basics of body systems in medical biochemistry, anatomy, medical pharmacology, physiology, histology and embryology, medical pathology and medical microbiology.

3.**appraise** an holistic approach,

4. **demonstrate** a futuristic physician by combining their knowledge in clinical practices.

5. **apply** the basic clinical skills in simulated environments and real clinical settings.

6.**demonstrate** the communication skills required to be a competent physician.

7.**define** the clinical aspects of cardiovascular, respiratory, central nervous system, neoplasia-hematopoietic systems, skin- sensorial organs with a clinical approach to musculoskeletal system.

8.**apply** their knowledge in the body systems while observing relevant clinical cases.

9. **analyze** the clinical cases in problem-based learning sessions

10. **demonstrate** the skills on problem solving and critical thinking.

11.**demonstrate** the skills in teamwork and evidence-based research.

12.**develop** the self-discipline that will help them to learn independently.

13.**practice** USMLE questions.

GRADUATE COMPETENCIES-PROGRAM OUTCOMES

1. Healthcare Provider

2. Applicator of Professional and Professional Principles

3. Health Advocate

4. Leader

5. Team member

6. Communicator

7. Demonstrator of a Scientific and Analytical Approach

8. Life-long Learner

Contribution of the learning outcomes of the course to the learning outcomes of the undergraduate medical program

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	5	1	3	1	1	1	2	2
LO2	5	2	3	1	3	2	2	2
LO3	5	2	3	2	2	2	3	2
LO4	4	1	3	1	1	1	2	2
LO5	5	2	4	1	2	2	3	3
LO6	4	1	2	1	1	1	2	2
LO7	5	1	4	1	2	2	4	3
LO8	5	1	3	1	2	1	2	2
LO9	5	1	3	1	2	1	2	2
LO10	5	1	4	1	1	1	2	2
LO11	5	1	4	1	2	1	3	3
LO12	5	1	4	1	1	1	3	1
LO13	4	3	4	1	2	2	3	3

2.1 NEOPLASIA, INFECTION, HEMOPOETIC SYSTEM COMMITTEE

AIM

1. To be able to comprehend general pathology information, to discuss the biology and pathogenesis of cancer, explain the characteristics of the cell, list the protection methods and drugs used in treatment.

2. To be able to recognize viral, mycological and parasitological agents that cause diseases.

3. To comprehend the mechanisms, diagnosis and treatment methods and ways of prevention.

4. To be able to make general concepts and definitions of hematology

5. To define the general structures and functions of the tissues and organs that make up the blood and lymph systems are related to metabolic functions.

6. To teach the details of blood and lymph biology in the human body,

7. To learn the functions of the general structure of the organs and tissues of the blood and lymph system,

8. To gain knowledge, attitudes and skills about the detection methods of these disorders.

LEARNING OUTCOMES

At the end of this committee,

In terms of Basic Sciences the students;

1. Will be able to explain the anatomical and histological structure of blood tissue,

2. Will be able to explain the blood and lymph tissues perform in the biological process (hemostasis, maintaining fluid-electrolyte balance, transport of blood gases, acid-base balance, temperature regulation, bleeding, coagulation etc.)

3. Will be able to determine the methods used in the examination of blood and lymph tissues

4. Will be able to define normal flora elements and pathogenic agents,

In terms of Clinical Sciences;

5. Will be able to explain the causes of tumor formation,

6. Will be able to count the characteristic features of tumors,

7. Will be able to explain carcinogenesis mechanisms and etiological factors and oncogenic agents that can cause cancer

8. Will be able to explain laboratory diagnosis that can define the disease-causing mechanisms of infectious agents.

9. Will be able to explain immunological mechanisms related to infection,

10. Will be able to explain the diseases and symptoms of blood and lymph tissues, clinical findings (anemia, polycythemia, leukemia, hemoglobinopathies, bleeding and coagulation disorders, etc.)

11. Will be able to discuss pathophysiology, etiology, findings of benign, malignant and infectious diseases of blood and lymphatic system,

12. Will be able to explain hematological drugs and their usage areas,

13. Will gain basic approach regarding the prevention of neoplasia, Infectious and Hematologic diseases

Contribution of the learning outcomes of the course to the learning outcomes of the undergraduate medical program

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	2	1	2	1	1	1	2	2
LO2	3	2	3	1	3	2	2	2
LO3	3	2	3	2	2	2	3	2
LO4	3	1	3	1	1	1	2	2
LO5	3	1	1	1	2	2	3	3
LO6	3	1	2	1	1	1	2	2
LO7	3	1	3	1	2	2	4	3
LO8	3	1	3	1	2	1	2	2
LO9	2	2	3	1	2	1	2	2
LO10	3	1	3	1	1	1	2	2
LO11	3	1	3	1	2	1	3	3
LO12	3	1	3	1	1	1	3	1
LO13	3	3	4	1	2	2	3	3

COMMITTEE I Neoplasia-Infection and Hematopoetic (Basics) / WEEK-I

Oct 3-7, 2022	03.10.2022 MONDAY	04.10.2022 TUESDAY	05.10.2022 WEDNESDAY	06.10.2022 THURSDAY	07.10.2022 FRIDAY
08:30-09:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	Thymus Histology HISTOLOGY N.ECE ORDUERİ	INDEPENDENT LEARNING	Porphyrias BIOCHEMISTRY AHMET BELCE
09:25-10:10	INDEPENDENT LEARNING	INDEPENDENT LEARNING		INDEPENDENT LEARNING	
10:20-11:05	INDEPENDENT LEARNING	ORIENTATION	Staphylococcus spp MICROBIOLOGY M.DERYA AYDIN	Histology of the Spleen and Lymph Nodes HISTOLOGY N.ECE ORDUERİ	Tonsil Histology HISTOLOGY N.ECE ORDUERİ
11:15-12:00	INDEPENDENT LEARNING	Blood: composition, properties and functions PHYSIOLOGY SİNEM ETHEMOĞLU	Streptococcus spp - Enterococcus spp MICROBIOLOGY M.DERYA AYDIN		
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:00-13:45	INDEPENDENT LEARNING	Erythrocytes, bloods groups PHYSIOLOGY SİNEM ETHEMOĞLU	Hemoglobin and Myoglobin: Structure and Function Relation BIOCHEMISTRY AHMET BELCE	Bone Marrow and Blood Smear HISTOLOGY LAB N.ECE ORDUERİ	INDEPENDENT LEARNING
13:55-14:40	INDEPENDENT LEARNING				INDEPENDENT LEARNING
14:50-15:35	INDEPENDENT LEARNING	Bone Marrow Histology and Hematopoiesis HISTOLOGY N.ECE ORDUERİ	INDEPENDENT LEARNING	Hem Synthesis BIOCHEMISTRY AHMET BELCE	INDEPENDENT LEARNING
15:45-16:30	INDEPENDENT LEARNING		INDEPENDENT LEARNING		INDEPENDENT LEARNING
16:40-17:25	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:35- 18:20	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
18:30 - 19:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING

COMMITTEE I Neoplasia-Infection and hematopoetic (Basics) / WEEK-II

Oct. 10-14, 2022	10.10.2022 MONDAY	11.10.2022 TUESDAY	12.10.2022 WEDNESDAY	13.10.2022 THURSDAY	14.10.2022 FRIDAY
08:30-09:15	Brucella spp Pasteurella spp Streptobacillus spp MICROBIOLOGY M.DERYA AYDIN	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
09:25-10:10	Spirochaetaceae (Borrelia spp Leptospira spp) MICROBIOLOGY M.DERYA AYDIN	Opportunistic fungi MICROBIOLOGY M.DERYA AYDIN	Blood Physiology PHYSIOLOGY LAB SİNEM ETHEMOĞLU	INDEPENDENT LEARNING	INDEPENDENT LEARNING
10:20-11:05	Development of Thymus, Spleen, Lymph node, Tonsil, Lymphatic Vessels HISTOLOGY N.ECE ORDUERİ	Leukocytes and the immune system PHYSIOLOGY SİNEM ETHEMOĞLU	Tissue helminths MICROBIOLOGY M.DERYA AYDIN	Protozoa1- Plasmodium spp MICROBIOLOGY YAĞMUR EKENOĞLU	Characteristics of Benign and Malignant Neoplasms PATHOLOGY SEMA ARICI
11:15-12:00					
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:00-13:45	Histology of Lymphatic Vessels HISTOLOGY N.ECE ORDUERİ	Hematopoietic Organ Development HISTOLOGY N.ECE ORDUERİ	INDEPENDENT LEARNING	Histology of the Thymus, Spleen and Tonsil. HISTOLOGY LAB N.ECE ORDUERİ	INDEPENDENT LEARNING
13:55-14:40			Childhood cancers and signs and symptoms suggestive of cancer; Approach to the Patient with Lymphadenopathy PEDIATRICS EROL KISMET		INDEPENDENT LEARNING
14:50-15:35	Platelets, hemostasis and coagulation mechanisms PHYSIOLOGY SİNEM ETHEMOĞLU				INDEPENDENT LEARNING
15:45-16:30		Hem Destruction BIOCHEMISTRY AHMET BELCE	Introduction to Antibiotics (Chemotherapeutics) PHARMACOLOGY ATİLA KARAALP	Nomenclature: Neoplasia PATHOLOGY SEMA ARICI	INDEPENDENT LEARNING
16:40-17:25	INDEPENDENT LEARNING				INDEPENDENT LEARNING

COMMITTEE I Neoplasia-Infection and hematopoetic (Clinics) / WEEK-III

Oct. 17-21, 2022	17.10.2022 MONDAY	18.10.2022 TUESDAY	19.10.2022 WEDNESDAY	20.10.2022 THURSDAY	21.10.2022 FRIDAY
08:30-09:15	Antibiotics Affecting the Cell Wall and Membrane: Beta Lactams PHARMACOLOGY ATİLA KARAALP	Protein Synthesis Inhibitors PHARMACOLOGY ATİLA KARAALP	INDEPENDENT LEARNING	Drugs Against Ectoparasites; Antiviral Drugs; Clinical Use of Antimicrobials PHARMACOLOGY ATİLA KARAALP	INDEPENDENT LEARNING
09:25-10:10			Antianaerobic Drugs; Antifungal Drugs; Antiiprotozoal Drugs PHARMACOLOGY ATİLA KARAALP		INDEPENDENT LEARNING
10:20-11:05					Immunopharmacology; Anticancer Drugs and Their Clinical Uses PHARMACOLOGY ATİLA KARAALP
11:15-12:00	Hyperbilirubinemias BIOCHEMISTRY AHMET BELCE	Hemoglobin Electrophoresis BIOCHEMISTRY AHMET BELCE		Protein Electrophoresis BIOCHEMISTRY AHMET BELCE	
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	
13:00-13:45	Epidemiology of Cancer PATHOLOGY SEMA ARICI	Biochemical Evaluation in Anemias BIOCHEMISTRY AHMET BELCE	Other blood and tissue protozoa MICROBIOLOGY YAĞMUR EKENOĞLU	Clinical Significance of Plasma Proteins BIOCHEMISTRY AHMET BELCE	Coagulation System (Hemostasis) BIOCHEMISTRY AHMET BELCE
13:55-14:40		INDEPENDENT LEARNING	Hematopoietic system clinical and lab evaluation; Anemia in children and approach to the anemia patient; PEDIATRICS EROL KISMET		USMLE-TUMAY SADIKOĞLU
14:50-15:35	Protozoa2- Toxoplasma spp - Leishmania spp MICROBIOLOGY YAĞMUR EKENOĞLU	Aminoglycosides and Spectinomycin;Sulfonamids, Trimethoprim and Quinolones;Disinfectants Antiseptics and Sterilants PHARMACOLOGY ATİLA KARAALP	History and Physical Examination in Infectious Diseases; Fever Pathogenesis and Clinical Fever Types INFECTIOUS DISEASES MÜBERRA HIRALOĞLU	INDEPENDENT LEARNING	INDEPENDENT LEARNING
15:45-16:30				INDEPENDENT LEARNING	INDEPENDENT LEARNING
16:40-17:25	INDEPENDENT LEARNING		Antihelmintic Drugs PHARMACOLOGY ATİLA KARAALP	Antianemic and hematinic drugs PHARMACOLOGY ATİLA KARAALP	INDEPENDENT LEARNING

COMMITTEE I Neoplasia-Infection and hematopoetic (Clinics) / WEEK-IV

Oct. 24-28, 2022	24.10.2022 MONDAY	25.10.2022 TUESDAY	26.10.2022 WEDNESDAY	27.10.2022 THURSDAY	28.10.2022 FRIDAY
08:30-09:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	Clinical Aspects of Neoplasia: Grading and Staging of Tumors PATHOLOGY SEMA ARICI	INDEPENDENT LEARNING
09:25-10:10	INDEPENDENT LEARNING	Anemia; Introduction to lymph node pathology PATHOLOGY DUYGU DÜŞMEZ APA	INDEPENDENT LEARNING		INDEPENDENT LEARNING
10:20-11:05	History and Physical Examination Findings in Hematopoietic System Diseases; Anemia due to erythropoiesis disorder (MA, DEA,AA) HEMATOLOGY DARDA BAYRAKTAR		Lymphadenitis PATHOLOGY DUYGU DÜŞMEZ APA	INDEPENDENT LEARNING	INDEPENDENT LEARNING
11:15-12:00				INDEPENDENT LEARNING	INDEPENDENT LEARNING
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:00-13:45	Approach to the patient with anemia; Hemoglobinopathies; Bleeding disorders (Hemophilia, Thrombocytopenia, DIC); Approach to the Patient with Lymphadenopathy HEMATOLOGY DARDA BAYRAKTAR	Carcinogenic Agents and Their Cellular Interactions PATHOLOGY SEMA ARICI	INDEPENDENT LEARNING	NEOPLASIA PATHOLOGY LAB SEMA ARICI	INDEPENDENT LEARNING
13:55-14:40			Approach to bleeding disorders in children PEDIATRICS EROL KISMET		INDEPENDENT LEARNING
14:50-15:35		Bleeding and Coagulation Disorders; Coagulation Tests BIOCHEMISTRY AHMET BELCE			INDEPENDENT LEARNING
15:45-16:30	Molecular Basis of Cancer: Role of Genetic and Epigenetic Alterations PATHOLOGY SEMA ARICI	INDEPENDENT LEARNING	Symptomatology in Infectious Diseases; Differential diagnosis in infectious Diseases INFECTIOUS DISEASES MÜBERRA HIRALOĞLU		INDEPENDENT LEARNING
16:40-17:25		INDEPENDENT LEARNING		INDEPENDENT LEARNING	INDEPENDENT LEARNING

COMMITTEE I Neoplasia-Infection and hematopoetic (Clinics) / WEEK-V					
Oct 31-Nov 4, 2022	31.10.2022 MONDAY	01.11.2022 TUESDAY	02.11.2022 WEDNESDAY	03.11.2022 THURSDAY	04.11.2022 FRIDAY
08:30-09:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
09:25-10:10	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
10:20-11:05	INDEPENDENT LEARNING	Lymphomas: Hodgkin Lymphoma PATHOLOGY DUYGU DÜŞMEZ APA	Bone marrow pathology PATHOLOGY DUYGU DÜŞMEZ APA	Peripheral Spreading and Hemogram Evaluation BIOCHEMISTRY AHMET BELCE	INDEPENDENT LEARNING
11:15-12:00	INDEPENDENT LEARNING				INDEPENDENT LEARNING
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:00-13:45	INDEPENDENT LEARNING	Lymphomas: Non- Hodgkin Lymphoma PATHOLOGY DUYGU DÜŞMEZ APA	Disorders of spleen and thymus PATHOLOGY DUYGU DÜŞMEZ APA	Hematopoietic System Pathology Samples PATHOLOGY LAB SEMA ARICI	INDEPENDENT LEARNING
13:55-14:40	INDEPENDENT LEARNING				INDEPENDENT LEARNING
14:50-15:35	INDEPENDENT LEARNING	Tumor Markers; Hemoglobinopathies BIOCHEMISTRY AHMET BELCE	Laboratory Findings in Infectious Diseases; Influenza; Healthcare service associated Infections INFECTIOUS DISEASES MÜBERRA HIRALOĞLU		INDEPENDENT LEARNING
15:45-16:30	INDEPENDENT LEARNING				INDEPENDENT LEARNING
16:40-17:25	INDEPENDENT LEARNING	INDEPENDENT LEARNING		INDEPENDENT LEARNING	INDEPENDENT LEARNING

COMMITTEE I Neoplasia-Infection and hematopoetic / WEEK-VI					
Nov. 7 - 11, 2022	07.11.2022 MONDAY	08.11.2022 TUESDAY	09.11.2022 WEDNESDAY	10.11.2022 THURSDAY	11.11.2022 FRIDAY
08:30-09:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	COMMITTEE EXAM
09:25-10:10	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
10:20-11:05	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
11:15-12:00	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	
13:00-13:45	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
13:55-14:40	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
14:50-15:35	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
15:45-16:30	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
16:40-17:25	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
17:35- 18:20	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
18:30 - 19:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	