

MEDICINE (ENGLISH) UNDEGRADUATE PROGRAM



PHASES		EDUCATION											
BASIC MEDICAL SCIENCES	I	PHASE I COMMITTEES						PUBLIC HEALTH AND SOCIAL MEDICINE	EARLY OBSERVATION OF CLINICS	STUDY MODULE	INTRODUCTION TO UNIVERSITY LIFE	NON-MEDICAL COURSES	
		PHYSICAL, CHEMICAL AND MOLECULAR BASIS OF LIFE	CELLULAR METABOLISM	INHERITANCE AND TISSUE	MUSCULOSKELETAL SYSTEM								
	II	PHASE II COMMITTEES											
NERVOUS SYSTEM		BLOOD AND THE LYMPHATIC SYSTEM	CARDIOVASCULAR AND RESPIRATORY SYSTEMS	GASTROINTESTINAL SYSTEM	UROGENITAL SYSTEM	BASIS OF DISEASES							
III	PHASE III COMMITTEES						OCCUPATIONAL SKILLS	STUDY MODULE					
	DERMATOLOGY AND MUSCULOSKELETAL SYSTEMS	NERVOUS AND SENSORY SYSTEM	CARDIORESPIRATORY SYSTEM	METABOLISM AND DIGESTIVE SYSTEM	UROGENITAL SYSTEM	HEMATOPOIETIC SYSTEM AND MULTI-SYSTEM DISORDERS							
CLINICAL MEDICAL SCIENCES	IV	PHASE IV CLERKSHIP											
		CARDIOLOGY	CLINICAL INTRO. INTERNSHIP PROGRAM	DERMATOLOGY	INFECTIOUS DISEASE	INTERNAL MEDICINE							
		NEUROLOGY	PEDIATRIC	PHY.TH.ANDREHAB	PSYCHIATRY	CHEST DISEASE							
	V	PHASE V CLERKSHIP											
		MEDICAL ETHICS	UROLOGY	CARDIOVASCULAR SURGERY	EAR NOSE AND THROAT	FORENSIC MEDICINE							
GENERAL SURGERY		GYNECOLOGY	LAB. MED. CLERKSHIP PROG.	NEUROSURGERY	OPHTHALMOLOGY								
	ORTHOPEDIC AND TRAUMA	PEDIATRIC SURGERY	PLASTIC AND RECONSTRUCTION SURGERY			ANAESTHESIOLOGY							
(Internship - 12months)	VI	PHASE VI INTERNSHIP											
		SURGICAL INT. CARE	HEART SURGERY INT. CARE	INTERNAL INT. CARE	CORONARY INT. CARE	EMERGENCY MEDICINE	FAMILY MEDICINE						
		GENERAL SURGERY	INTERNAL MEDICINE	GYNECOLOGY	PEDIATRY	PSYCHIATRY	PUBLIC HEALTH						

FIRST YEAR

MODULE I

Physical, Chemical and Molecular Basis of Life

CODE	COURSE NAME	T	L	A	Total
MDCN 112	Organic Chemistry	23	9	1	33
MDCN 114	Medical Biochemistry	35	12	3	50
MDCN 118	Biophysics	14	-	6	20
MDCN 120	Medical Biology	3	-	-	3
MDCN 124	Physiology	8	3	-	11
MDCN 154	Biostatistics	9	3	2	14
MDCN 144	Medical Education	6	-	-	6
MDCN 149	Early Observation of Clinics	10	-	22	32
MDCN 107	Study Module	12	-	12	24
ORY 100	Introduction to University Life	-	-	7	7
TURK 111	Turkish Language Education - I	30			30
ENGL 145	Academic Reading and Writing Skills -I	13			13
ITEC 120	Introduction to Computers	13			13
Total Hours		176	27	53	256

MODULE II

Cellular Metabolism

CODE	COURSE NAME	T	L	A	Total
MDCN 114	Medical Biochemistry	61	-	-	61
MDCN 120	Medical Biology	32	-	4	36
MDCN 122	Histology and Embryology	14	5	-	19
MDCN 128	Medical Microbiology	20	5	-	25
MDCN 126	Medical Genetics	6	-	-	6
MDCN 149	Early Observation of Clinics	16	-	16	32
MDCN 107	Study Module	9	-	9	18
TURK 111	Turkish Language Education - I	35			35
ENGL 145	Academic Reading and Writing Skills -I	13			13
ITEC 120	Introduction to Computers	13			13
Total Hours		219	10	29	258

MODULE III

Heredity and Tissue

CODE	COURSE NAME	T	L	A	Total
MDCN 120	Medical Biology	21	-	6	27
MDCN 122	Histology and Embryology	36	11	-	47
MDCN 124	Physiology	4	-	-	4
MDCN 126	Medical Genetics	23	-	4	27
MDCN 130	Anatomy	5	-	-	5

MODULE IV

Musculoskeletal System

CODE	COURSE NAME	T	L	A	Total
MDCN 122	Histology and Embryology	10	6	-	16
MDCN 130	Anatomy	37	29	-	66
MDCN 124	Physiology	14	6	-	20
MDCN 114	Medical Biochemistry	7	-	-	7
MDCN 118	Biophysics	6	-	-	6

MDCN 114	Medical Biochemistry	9	-	-	9	MDCN 149	Early Observation of Clinics	-	-	19	19
MDCN 149	Early Observation of Clinics	20	-	20	40	MDCN 107	Study Module	6	-	8	14
MDCN 107	Study Module	12	-	12	24	ENGL 146	Academic Reading and Writing Skills -II	13	-	-	13
ENGL 146	Academic Reading and Writing Skills - II	13	-	-	13	TURK 112	Turkish Language Education – II	33	-	-	33
TURK 112	Turkish Language Education – II	32	-	-	32						
Total Hours		175	11	42	228	Total Hours		126	41	27	194

MODULE V

Public Health and Social Medicine

CODE	COURSE NAME	T	L	A	Total
MDCN 102	Introduction to Medical Applications and History of Medicine	15	-	-	15
MDCN 104	Medical Sociology	16	-	-	16
MDCN 106	Medical Psychology	14	-	-	14
MDCN 108	Social and Preventive Medicine	20	-	-	20
MDCN 138	Medical Ethics	8	-	-	8
Total Hours		73	-	-	73

SECOND YEAR

MODULE I

Nervous system

CODE	COURSE NAME	T	L	A	Total
MDCN 222	Histology and Embryology	18	5	-	23
MDCN 230	Anatomy	56	17	-	73
MDCN 214	Medical Biochemistry	6	-	-	6
MDCN 224	Physiology	36	6	-	42
MDCN 218	Biophysics	7	2	-	9
MDCN 249	Early Observation of Clinics	12	-	-	12
MDCN 255	Integrated Case Study	-	-	10	10
MDCN 207	Study Module	4	-	3	7
TURK 211	Turkish Language Education – III	22	-	-	22
TARH 110 / HIST 110	Ataturk Principles and History of Turkish Reforms / History of Civilization	8	-	-	8
Total Hours		169	30	13	212

MODULE II

Blood and The Lymphatic System

CODE	COURSE NAME	T	L	A	Total
MDCN 214	Medical Biochemistry	9	-	-	9
MDCN 222	Histology and Embryology	10	3	-	13
MDCN 224	Physiology	9	3	-	12
MDCN 226	Medical Genetics	2	-	-	2
MDCN 230	Anatomy	2	-	-	2
MDCN 238	Immunology	28	-	-	28
MDCN 255	Integrated Case Study	-	-	2	2
MDCN 207	Study Module	3	-	3	6
MDCN 249	Early Observation of Clinics	8	-	-	8
TURK 211	Turkish Language Education – III	22	-	-	22
TARH 110 / HIST 110	Ataturk Principles and History of Turkish Reforms / History of Civilization	8	-	-	8
Total Hours		101	6	5	112

MODULE III

Circulatory and Respiratory System

CODE	COURSE NAME	T	L	A	Total
MDCN 214	Medical Biochemistry	8	-	-	8
MDCN 218	Biophysics	6	-	-	6
MDCN 222	Histology and Embryology	13	4	-	17
MDCN 224	Physiology	37	8	-	45
MDCN 230	Anatomy	19	11	-	30
MDCN 238	Immunology	7	-	-	7
MDCN 255	Integrated Case Study	-	-	6	6

MODULE IV

Digestive System

CODE	COURSE NAME	T	L	A	Total
MDCN 214	Medical Biochemistry	38	3	-	41
MDCN 230	Anatomy	23	12	-	35
MDCN 224	Physiology	21	4	-	25
MDCN 222	Histology and Embryology	11	6	-	17
MDCN 226	Medical Genetics	2	-	-	2
MDCN 254	Biostatistics	24	-	-	24
MDCN 249	Early Observation of Clinics	24	-	-	24

MDCN 207	Study Module	5	-	6	11	MDCN 255	Integrated Case Study	-	-	8	8
MDCN 249	Early Observation of Clinics	16	-	-	16	MDCN 207	Study Module	10	-	10	20
TARH 110 / HIST 110	Ataturk Principles and History of Turkish Reforms / History of Civilization	10	-	-	10	TURK 212	Turkish Language Education – IV	22	-	-	22
TURK 211	Turkish Language Education – III	21	-	-	21						
Total Hours		142	23	12	177	Total Hours		175	25	18	218

MODULE V

Urogenital System

CODE	COURSE NAME	T	L	A	Total
MDCN 222	Histology and Embryology	10	6	-	16
MDCN 230	Anatomy	12	5	-	17
MDCN 214	Medical Biochemistry	5	3	-	8
MDCN 224	Physiology	17	2	-	19
MDCN 207	Study Module	3	-	3	6
MDCN 249	Early Observation of Clinics	12	-	-	12
TURK 212	Turkish Language Education – IV	22	-	-	22
Total Hours		81	16	3	100

MODULE VI

Basis of Diseases

CODE	COURSE NAME	T	L	A	Total
MDCN 214	Medical Biochemistry	13	-	-	13
MDCN 242	Medical Pharmacology	40	-	-	40
MDCN 240	Pathology	33	-	-	33
MDCN 226	Medical Genetics	14	-	-	14
MDCN 218	Biophysics	8	-	-	8
MDCN 228	Medical Microbiology	64	8	-	72
MDCN 238	Immunology	7	-	-	7
MDCN 291	Radiology	6	-	-	6
MDCN 207	Study Module	8	-	8	16
MDCN 249	Early Observation of Clinics	12	-	-	12
TURK 212	Turkish Language Education – IV	21	-	-	21
Total Hours		226	8	8	242

THIRD YEAR

I. MODULE

Dermatology and Musculoskeletal System

CODE	COURSE NAME	T	L	A	Total
MDCN 360	Anesthesia and Reanimation	1	-	-	1
MDCN 385	Neurosurgery	2	-	-	2
MDCN 353	Emergency Medicine	4	-	-	4
MDCN 309	Family Medicine	1	-	-	1
MDCN 376	General Surgery	1	-	-	1
MDCN 358	Dermatology and Venerology	28	-	-	28
MDCN 314	Medical Biochemistry	2	-	-	2
MDCN 328	Medical Microbiology	3	-	-	3
MDCN 340	Medical Pathology	13	-	-	13
MDCN 342	Medical Pharmacology	6	-	-	6
MDCN 384	Neurology	1	-	-	1
MDCN 386	Nuclear Medicine	2	-	-	2
MDCN 387	Orthopedics and Traumatology	8	-	-	8
MDCN 375	Physical Therapy and Rehabilitation	20	-	-	20
MDCN 388	Plastic and Reconstructive Surgery	4	-	-	4
MDCN 361	Radiology	1	-	-	1
MDCN 365	Rheumatology	15	-	-	15
MDCN 308	Occupational Skills	-	28	-	28
MDCN 307	Study Groups	4	-	-	4
TURK 311	Turkish	10	-	-	10
Total Hours		126	28	-	154

II. MODULE

Nervous and Sensory System

CODE	COURSE NAME	T	L	A	Total
MDCN 384	Neurology	39	2	-	41
MDCN 389	Psychiatry	32	6	-	38
MDCN 342	Medical Pharmacology	14	-	-	14
MDCN 354	Biostatistics	13	-	-	13
MDCN 338	Pediatric Psychiatry	14	-	-	14
MDCN 385	Neurosurgery	10	1	-	11
MDCN 351	Pediatry	9	-	-	9
MDCN 340	Medical Pathology	10	-	-	10
MDCN 382	Ear Nose Throat	7	2	-	9
MDCN 364	Eye Diseases	5	-	-	5
MDCN 309	Family Medicine	5	-	-	5
MDCN 353	Emergency Medicine	3	1	-	4
MDCN 360	Anesthesia and Reanimation	3	-	-	3
MDCN 328	Medical Microbiology	2	-	-	2
MDCN 361	Radiology	2	-	-	2
MDCN 330	Anatomy	1	-	-	1
MDCN 326	Medical Genetics	1	-	-	1
MDCN 375	Physical Therapy and Rehabilitation	1	-	-	1
MDCN 383	Infectious Diseases and Clinical Microbiology	5	-	-	5
MDCN 308	Occupational Skills	-	12	-	12
MDCN 307	Study Groups	22	-	-	22
TURK 311	Turkish	30	-	-	30
Total Hours		228	24	-	252

III. MODULE

Cardiorespiratory Systems

CODE	COURSE NAME	T	L	A	Total
MDCN 360	Anesthesia and Reanimation	1	-	-	1
MDCN 381	Cardiology	37	-	-	37
MDCN 378	Cardiovascular Surgery	9	-	-	9
MDCN 377	Chest Diseases	20	-	-	20
MDCN 390	Thoracic Surgery	3	-	-	3
MDCN 358	Dermatology and Venerology	1	-	-	1
MDCN 353	Emergency Medicine	2	-	-	2
MDCN 309	Family Medicine	2	-	-	2
MDCN 383	Infectious Diseases and Clinical Microbiology	4	-	-	4
MDCN 314	Medical Biochemistry	6	-	-	6
MDCN 328	Medical Microbiology	5	-	-	5
MDCN 340	Medical Pathology	11	-	-	11
MDCN 342	Medical Pharmacology	28	-	-	28
MDCN 386	Nuclear Medicine	2	-	-	2
MDCN 382	Ear Nose Throat	14	-	-	14
MDCN 362	Pediatric Surgery	3	-	-	3
MDCN 351	Pediatry	19	-	-	19
MDCN 391	Radiology	2	-	-	2
MDCN 307	Study Groups	23	-	-	23
MDCN 308	Occupational Skills	-	22	-	22
TURK 311	Turkish	25			25
Total Hours		217	22	-	239

IV. MODULE

Metabolism and Digestive System

KOD	DERS ADI	T	L	A	Total
MDCN 330	Anatomy	2	-	-	2
MDCN 360	Anesthesia and Reanimation	2	-	-	2
MDCN 358	Dermatology and Venerology	1	-	-	1
MDCN 353	Emergency Medicine	-	-	-	-
MDCN 350	Endocrinology	18	-	-	18
MDCN 309	Family Medicine	15	-	-	15
MDCN 344	Gastroenterology	20	-	-	20
MDCN 376	General Surgery	26	-	-	26
MDCN 383	Infectious Diseases and Clinical Microbiology	7	-	-	7
MDCN 314	Medical Biochemistry	7	-	-	7
MDCN 328	Medical Microbiology	3	-	-	3
MDCN	Medical Oncology	3	-	-	3
MDCN 340	Medical Pathology	17	-	-	17
MDCN 342	Medical Pharmacology	16	-	-	16
MDCN 386	Nuclear Medicine	2	-	-	2
MDCN 382	Ear Nose Throat	2	-	-	2
MDCN 362	Pediatric Surgery	13	-	-	13
MDCN 351	Pediatry	7	-	-	7
MDCN 388	Plastic and Reconstructive Surgery	1	-	-	1
MDCN 391	Radiology	3	-	-	3
MDCN 307	Study Groups	16	-	-	16
MDCN	Occupational Skills	-	12	-	12
TURK 312	Turkish	35			35
Total Hours		216	12	-	228

V. MODULE

Urogenital System

CODE	COURSE NAME	T	L	A	Total
MDCN 330	Anatomy	1	-	-	1
MDCN 339	Basic Immunology	3	-	-	3
MDCN 351	Pediatrics	8	-	-	8
MDCN 362	Pediatric Surgery	4	-	-	4
MDCN 358	Dermatology and Venerology	3	-	-	3
MDCN 376	General Surgery	5	-	-	5
MDCN 321	Obstetrics and Gynecology	17	-	-	17
MDCN 383	Infectious Diseases and Clinical Microbiology	3	-	-	3
MDCN 314	Medical Biochemistry	9	-	-	9
MDCN 326	Medical Genetics	4	-	-	4
MDCN 328	Medical Microbiology	2	-	-	2
MDCN	Medical Oncology	1	-	-	1
MDCN 340	Medical Pathology	13	-	-	13
MDCN 342	Medical Pharmacology	8	-	-	8
MDCN 371	Nephrology	11	-	-	11
MDCN 386	Nuclear Medicine	1	-	-	1
MDCN 320	Perinatology	3	-	-	3
MDCN 391	Radiology	4	-	-	4
MDCN 323	Urology	17	-	-	17
MDCN 307	Study Groups	15	-	-	15
MDCN	Occupational Skills	-	48	-	48
TURK 312	Turkish	20	-	-	20
Total Hours		152	48	-	200

VI. MODULE

Hematopoietic System and Multi-System Disorders

CODE	COURSE NAME	T	L	A	Total
MDCN 360	Anesthesia and Reanimation	1	-	-	1
MDCN 351	Pediatrics	18	-	-	18
MDCN 353	Emergency Medicine	6	-	-	6
MDCN 309	Family Medicine	3	-	-	3
MDCN 376	General Surgery	3	-	-	3
MDCN 322	Hematology	25	-	-	25
MDCN 383	Infectious Diseases and Clinical Microbiology	9	-	-	9
MDCN 314	Medical Biochemistry	5	-	-	5
MDCN 326	Medical Genetics	8	-	-	8
MDCN 328	Medical Microbiology	3	-	-	3
MDCN 324	Medical Oncology	5	-	-	5
MDCN 340	Medical Pathology	6	-	-	6
MDCN 342	Medical Pharmacology	14	-	-	14
MDCN 386	Nuclear Medicine	2	-	-	2
MDCN 391	Radiology	1	-	-	1
MDCN 307	Study Groups	15	-	-	15
MDCN 308	Occupational Skills	-	3	-	3
TURK 312	Turkish	10	-	-	10
Total Hours		134	3	-	137

Abbreviations: T= Weekly theoretical hour; L= Weekly laboratory hour; A= Active education hour; TS= Total hours

Year I	
1.	<p>MDCN101 PHYSICAL, CHEMICAL AND MOLECULAR BASIS OF LIFE</p> <p>The objective of this module is to familiarize the students with basic chemical, biochemical, physiological, biophysical, and biological principles important for life such as water, ionization, acids and bases, chemical reactions, balance and energy, pH, buffers systems, solutions and colloids, biochemical calculations in medicine, principles of organic chemistry, saturated and unsaturated hydrocarbons, stereoisomerism, optically active molecules, functional groups, chlorine detection from water, principal organic components of biological systems, cellular organization, architecture and function of cell membrane, homeostasis, bioelectricity, energy flow in living systems, diffusion, membrane potential, channel kinetics. In addition, fundamental concepts in biostatistics and medical education will be covered. Students will get hand on experience in clinical skills and literature review techniques as well as developing Turkish and English language skills.</p> <p><i>Hours: (197, 27, 53) 279 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Phy Chem Mol Basis Life Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Molecules, Cell, Homeostasis, Bioelectricity, Kinetics, Biostatistics, Clinical skills Course Status: New</i></p>
2.	<p>MDCN102 CELLULAR METABOLISM</p> <p>The aim of this module is to introduce students to cellular metabolism, cell structures, histochemistry principles, medical microbiology, and medical genetics. The module includes, glycolysis, citric acid cycle, electron transfer, oxidative phosphorylation, glycoprotein, lipid, lipoprotein, amino acid, nucleic acid metabolisms, cellular organelles, extracellular matrix and cell to cell adhesion, molecules of inheritance, central dogma, principles of histochemistry, general futures of bacteria viruses, fungi and parasites, concepts, and investigation techniques of human genetics. In addition, student will learn clinical skills such as body temperature, pulse rate, respiration rate and blood pressure measurements, intramuscular, subcutaneous, intradermal, and intravascular injection, first aid in bleeding injuries, first aid in shock. Turkish and English language as well as clinical research literature review will also be part of this module.</p> <p><i>Hours: (216, 10, 4) 230 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Cell Metabol Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Metabolism, Microbiology, Organelles, Genetics, Histochemistry, Clinical Skills Course Status: New</i></p>
3.	<p>MDCN103 INHERITANCE AND TISSUE</p> <p>The main objective of this module is to introduce inheritance, development, and human tissues. This module will cover, embryological terms, gametogenesis, fertilization, human development (1-8 weeks), fetal period, fetal membranes, epithelial and connective tissue development and histology, distribution of tissues, mitosis and myosis, recombination, chromosomes, mutation, DNA repair, cell death, cellular aging, organ system physiology, anatomical terminology, biochemistry of tissues and organs, developmental genetics, inheritance, population genetics, gene, and linkage mapping. In addition, student will learn clinical skills such as triangular slings and bandages, transport and positioning of patients, life support for adults, children and infant life support and Heimlich maneuver, suturing and suture removal. Turkish and English language as well as clinical research literature review will also be part of this module.</p> <p><i>Hours: (212, 11, 48) 271 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Inher Tissue Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Inheritance, Development, Embryology, Tissue, Genetics, Clinical Skills Course Status: New</i></p>
4.	<p>MDCN104 MUSCOLOSKELETAL SYSTEMS</p> <p>The aim of this module is to teach histology, anatomy, biochemistry, and physiology of constituents relevant to movement system and introduce bioelectricity models and radiology. This module includes muscle, skin and nerve tissue histology, anatomy of shoulder, arm, hand, leg, feet, joints, muscles, extremity bones and veins, smooth and skeletal muscle physiology, PNS transmission properties, synaptic transmission, spinal reflex, nerve tissue mediators, biochemistry of muscle and nerve tissue, exercise, passive membrane and circuit model, action potential, volume conduction and dipole model, effects of radiation on the biological tissue and give detailed information on radiograph. In addition, student will participate in a social responsibility and medical research projects and develop Turkish and English language skills.</p> <p><i>Hours: (123, 42, 31) 196 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Movement Sys Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Movement, Tissue, Histology, Anatomy, Muscle, Bone, Nerve, Radiology, Clinical Skills Course Status: New</i></p>
5.	<p>MDCN105 PUBLIC HEALTH AND SOCIAL MEDICINE</p> <p>The objective of this module is to introduce medical applications, history of medicine, medical sociology, medical psychology, social and preventive medicine, and medical ethics. Students will be familiarized to medical and biomedical history in various periods, the progress in diseases and public health, social factors that affect health and how to make use of sociology in improving person's and societies' health, relevance of psychology to medicine, interview techniques, communication, the psychology of pain, placebo effect, pain management techniques, patients role, patient-healthcare professional relationship, introduction to principles of epidemiology in public health practice, prevention of communicable diseases, epidemiology and prevention of HIV/AIDS, social welfare and social insurance, ethical issues and conflicts, verbal reasoning skills, moral values, patient right concept and ethics in research and publication.</p> <p><i>Hours: (73, 0, 0) 73 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Pub Health Soc Medi Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: History of Medicine, Psychology, Public Health, Communication, Patient, Ethics Course Status: New</i></p>
Year II	
6.	<p>MDCN 201 NERVOUS SYSTEM</p> <p>The neuroscience module includes an overview of neuroanatomy and neurophysiology, with correlation to disorders of the central and peripheral nervous system. The objective of this module is to familiarize students with the structures and function of various nervous cells and to describe the divisions and subdivisions of the nervous system.</p> <p>This module will allow the students to understand biochemistry of the neuroendocrine cells and their mechanism of action, biophysical</p>

	<p>methods biophysical methods to study neurons. This module also includes working groups, an integrated case study, Turkish class for orientation of foreign students and Medical English class to introduce students to general medical vocabulary.</p> <p><i>Hours: (164, 26, 13) 203 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Nerv Sys Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: neuroanatomy, neurophysiology, central nervous system, peripheral nervous system</i> <i>Course Status: New</i></p>
7.	<p>MDCN202 BLOOD AND THE LYMPHATIC SYSTEM</p> <p>This module aims to describe the components and functions of blood. The students will be able to learn peripheral blood cells such as erythrocytes, leucocytes and platelets, ions, proteins, the blood clotting mechanism, biochemistry of coagulation. At the end of this module the students will learn how the primary and secondary lymphoid organs are formed and matured and the details about the cells of the immune system and immunity. The students will explore the relationship between the immune system and genetics and learn the autoimmune diseases.</p> <p>This module also includes working groups, an integrated case study, Turkish class for orientation of foreign students and Medical English class to introduce students to general medical vocabulary.</p> <p><i>Hours: (73, 6, 4) 83 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Blood Lymph Sys Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Blood, erythrocytes, leucocytes, platelets, clotting, coagulation, lymphoid organs</i> <i>Course Status: New</i></p>
8.	<p>MDCN203 CARDIOVASCULAR AND RESPIRATORY SYSTEMS</p> <p>The Cardiovascular and Pulmonary Systems module aims to describe the organization of the cardiovascular and respiratory systems, their structures, and functions. The students will be able to name the organs forming the respiratory passageway from the nasal cavity to the alveoli of the lungs. The circulatory and the respiratory system work closely to ensure that the organ tissues receive enough oxygen, and the students will learn about the biochemistry of these two systems' mechanism. Mechanism of gas exchange, respiratory volumes and capacity, respiratory resistance and thermodynamics will be taught in this module.</p> <p>This module also includes working groups, an integrated case study, Turkish class for orientation of foreign students and Medical English class to introduce students to general medical vocabulary.</p> <p><i>Hours: (121, 24, 16) 156 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Cardiovas Respir Sys Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Cardiovascular, respiratory, lungs, circulation, oxygen, thermodynamics</i> <i>Course Status: New</i></p>
9.	<p>MDCN204 GASTROINTESTINAL SYSTEM</p> <p>The gastrointestinal system module focuses on the structures and functions of the digestive organs. The students will learn digestion, absorption, and the metabolism (catabolism and anabolism) of the biomolecules such as carbohydrates, lipids, and proteins. This module will cover the physiology of mouth, salivation, swallowing, gastric motility, gastric secretion, small intestine, and pancreas secretion together with the liver and biliary system. Hereditary diseases about the gastrointestinal system will be discussed. This module has an introduction to classical statistical distributions and practical descriptive statistics. It also includes working groups, an integrated case study, Turkish class for orientation of foreign students and Medical English class to introduce students to general medical vocabulary.</p> <p><i>Hours: (209, 32, 20) 261 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Gastroint Sys Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Digestion, absorption, metabolism, gastric, intestine, pancreas, liver, gastrointestinal</i> <i>Course Status: New</i></p>
10.	<p>MDCN205 UROGENITAL SYSTEM</p> <p>General structure and function of the urinary system will be covered in this module and the students will be able to list and describe the organs of the urinary system and explain the functions performed by the urinary system. The students will discuss urea and creatinine metabolism, understand the role of kidney in the regulation of acid base balance. This module also reviews the functions of the nephron, understand the process of renal blood flow and glomerular filtration, reabsorption, and secretion mechanisms. The developmental genetics of kidneys and lower urinary tract will be covered. It also includes working groups, an integrated case study, Turkish class for orientation of foreign students and Medical English class to introduce students to general medical vocabulary.</p> <p><i>Hours: (65, 20, 7) 92 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Urogen Sys Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: urinary, kidney, urea, creatinine, renal, nephron, filtration, reabsorption, secretion</i> <i>Course Status: New</i></p>
11.	<p>MDCN206 BASIS OF DISEASES</p> <p>Basis of Diseases module provides students basic knowledge in four major subject areas: pharmacology, pathology, microbiology, and immunology. Students are also introduced to the pharmaceutical drugs, mechanism of action at the cellular and molecular levels. In this module the students will learn the biochemical basis of diseases, clinical importance of the immune system, mechanism of inflammation, tumor immunology, immunological bases of organ specific and systemic autoimmune diseases, biochemistry, and genetics of cancer.</p> <p>This module also includes working groups, an integrated case study, Turkish class for orientation of foreign students and Medical English class to introduce students to general medical vocabulary. At the end of the module the students will present their work carried out in working groups in a symposium.</p> <p><i>Hours: (204, 11, 36) 251 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: Basis Disea Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: inflammation, tumor, immunology, autoimmune, diseases, cancer, drugs</i> <i>Course Status: New</i></p>
Year III	
12.	<p>MDCN301 Dermatology and Musculoskeletal System</p> <p>This course focuses on understanding orthopedic medicine, and the musculoskeletal and dermatology systems, which includes all the bones, muscles, joints and supportive tissues and connective tissues. The students will be introduced to diseases orthopedics, fracture, healing, fixation, bone grafts, early and late complications in fractures, sports injuries, infections of the muscle and the bone system and the fractures of the lower and upper extremities and the drugs used and lab findings in orthopedic diseases such as crystal arthroplasty, rheumatoid arthritis, vasculitis, Lupus, spondyloarthropathies and the reasons and rehabilitation of pains, myofascial pain syndrome, humoral and cervical pains, use of denture-orthosis and help walking devices, aging of the muscle and skeletal system and osteoarthritis. Physical medicine and rehabilitation, pathology, plastic surgery, pharmacology, radiology, pediatric nephrology, nuclear medicine, and infectious diseases will be covered. 100-125 words</p>

	<p><i>Hours: (133, 0, 0) 133 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: DERM. & MUSC. SYS. Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: sociological, psychological, health, epidemiology, infectious, case, cohort Course Status: New</i></p>
13.	<p>MDCN302 Sensory and Neural System</p> <p>The aim of this course is to introduce students to pharmacology of central nervous system pharmacology, opioids, analgesics, antagonists, neuromuscular blocking drugs, general and local anesthetics, neuroleptics, drugs for Parkinson's disease, sedative, hypnotic drugs, drugs used for treatment of depression and mania, drug abuse and addiction, analgesics, antipyretics, stimulants of central nervous system, hallucinogens, anticonvulsants, and antiepileptic's. Psychiatry, neurosurgery, pathology, pediatric neurology, anesthesiology, radiology, and the infectious diseases of the nervous system will be covered. They will also be introduced to physiology of balance, vertigo, hearing loss and diagnostic procedure in the section of the diseases of the Ear, Nose & Throat. The students will also be expected to carry out in vitro medical laboratory research on a medical case.</p> <p><i>Hours: (229, 0, 0) 229 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: SENS. & NEU. SYS. Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Neurons, analgesics, neurology, infectious diseases, anesthesiology, anorexia, bulimia Course Status: New</i></p>
14.	<p>MDCN303 Cardiorespiratory System</p> <p>The Cardiovascular and Respiratory Systems module aims to describe the organization of the cardiovascular and respiratory systems, their structures, and functions. The students will be able to name the organs forming the respiratory passageway from the nasal cavity to the alveoli of the lungs. The circulatory and the respiratory system work closely to ensure that the organ tissues receive enough oxygen, and the students will learn about the biochemistry of these two systems' mechanism. Mechanism of gas exchange, respiratory volumes and capacity, respiratory resistance and thermodynamics will be taught in this module.</p> <p>This module also includes working groups, an integrated case study, Turkish class for orientation of foreign students and Medical English class to introduce students to general medical vocabulary.</p> <p><i>Hours: (234, 0, 0) 234 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: CARDIORESPIRA. SYS. Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Cardiovascular, electrocardiography, coronary, artery, heart failure, hypertension, arrhythmia Course Status: New</i></p>
15.	<p>MDCN304 Metabolism and Digestive System</p> <p>The gastrointestinal system module focuses on the structures and functions of the digestive organs. The students will learn digestion, absorption, and the metabolism (catabolism and anabolism) of the biomolecules such as carbohydrates, lipids and proteins. This module will cover the physiology of mouth, salivation, swallowing, gastric motility, gastric secretion, small intestine, and pancreas secretion together with the liver and biliary system. Hereditary diseases about the gastrointestinal system will be discussed. This module has an introduction to classical statistical distributions and practical descriptive statistics. It also includes working groups, an integrated case study, Turkish class for orientation of foreign students and Medical English class to introduce students to general medical vocabulary.</p> <p><i>Hours: (222, 2, 0) 222 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: MET. & DIGEST. SYS. Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Gastroenterology, gastrointestinal, malabsorption, polyps, ulcer, liver, pain, hepatitis, surgery Course Status: New</i></p>
16.	<p>MDCN305 Urogenital System</p> <p>General structure and function of the urinary system will be covered in this module and the students will be able to list and describe the organs of the urinary system and explain the functions performed by the urinary system. The students will discuss urea and creatinine metabolism, understand the role of kidney in the regulation of acid base balance. This module also reviews the functions of the nephron, understand the process of renal blood flow and glomerular filtration, reabsorption, and secretion mechanisms. The developmental genetics of kidneys and lower urinary tract will be covered. It also includes working groups, an integrated case study, Turkish class for orientation of foreign students and Medical English class to introduce students to general medical vocabulary.</p> <p><i>Hours: (158, 0, 0) 158 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: UROGENT. SYS. Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Menstrual, genital, urinary tract, kidneys, nephron, glomerulus smear, ovaries, testis. Course Status: New</i></p>
17.	<p>MDCN306 Hematopoietic System and Multisystem Disorders</p> <p>This module aims to describe the components and functions of blood. The students will be able to learn peripheral blood cells such as erythrocytes, leucocytes and platelets, ions, proteins, the blood clotting mechanism, biochemistry of coagulation. At the end of this module the students will learn how the primary and secondary lymphoid organs are formed and matured and the details about the cells of the immune system and immunity. The students will explore the relationship between the immune system and genetics and learn the autoimmune diseases. This module also includes working groups, an integrated case study, Turkish class for orientation of foreign students and Medical English class to introduce students to general medical vocabulary.</p> <p><i>Hours: (143, 0, 0) 143 Prerequisites: None ECTS: -</i></p> <p><i>Abbreviated Title: HEMA. SYS. MUTI. SYS. DIS. Category: Faculty Core Course Teaching Language: English</i></p> <p><i>Keywords: Hematology, endocrinology, leukemia, hypothalamus, pituitary, diabetes, obesity. Course Status: New</i></p>