



## TISSUE BIOLOGY AND INTRODUCTION TO HUMAN EMBRYOLOGY (2019-2020)

### INTRODUCTION OF THE COURSE

<b>COURSE PERIOD</b>	: Year 1 – Semester 2
<b>COURSE CODE</b>	: MED 108
<b>COURSE DURATION</b>	: 6 weeks
<b>NATIONAL CREDIT</b>	: 6
<b>ECTS CREDIT</b>	: 9
<b>COURSE COORDINATOR</b>	: Prof. Özgür ÇINAR
<b>COURSE SECRETARY</b>	: Buket ADIŞANLI, Bahadır ÇEVRİM
<b>COURSE DATES</b>	: 27.01.2020 – 06.03.2020
<b>TRAINING LOCATIONS</b>	: Prof. Dr. Şükrü Kaymakçalan Auditorium, Prof. Dr. Kazım Türker Classroom, Anatomy Laboratory, Rıdvan Ege Laboratory, Medical Skills Laboratory

### COORDINATING DEPARTMENTS

Anatomy  
Histology & Embryology  
Physiology

### CONTRIBUTING DEPARTMENTS

Anesthesiology & Reanimation  
Medical Biochemistry  
Medical Education & Informatics

### TEACHING STAFF

Prof. Nihal APAYDIN	Assoc. Prof. Deniz BİLLUR
Prof. Belgin CAN	Assoc. Prof. Özlem Selvi CAN
Prof. Ayhan CÖMERT	Assoc. Prof. Başak Ceyda MEÇO
Prof. Özgür ÇINAR	Assoc. Prof. İskender Sinan ÖZKAVUKCU
Prof. Aslıhan GÜRBÜZ	Assist. Prof. İpek GÖNÜLLÜ
Prof. Bizden SABUNCUOĞLU	Lecturer Simge AYKAN ZERGEROĞLU
Prof. Tülin ŞEN ESMER	

## AIM OF THE COURSE

To gain knowledge about the structure, development and function of human organism at the tissue and organ systems, and the basic human embryology. Also, to gain skills for basic medical practices.

## LEARNING OBJECTIVES OF THE COURSE

Describes the commonly used terms in anatomy.

Defines the epithelial tissue types.

Describes the histological features and functions of the covering epithelium.

Describes the histological features and functions of the secretory epithelium.

Describes the types of connective tissue, and explains their development and functions.

Describes the cells, fibers and extracellular matrix of connective tissue.

Describes the biochemistry of extracellular matrix.

Describes the histological characteristics, development and functions of adipose tissue.

Defines the general properties of the elements of musculoskeletal system.

Describes the types, characteristics and development of cartilage tissue.

Describes the general structure, characteristics and development of bone tissue.

Describes the repair of bone and cartilage tissues.

Classifies the types of muscle.

Describes the histological characteristics, formation and functions of muscle tissue.

Explains the contraction of skeletal muscle, cardiac muscle and smooth muscle cells.

Defines the general properties of circulatory system.

Defines the general properties of respiratory system.

Defines the general properties of digestive system.

Defines the general properties of genitourinary system.

Defines the concepts of acid-base and buffer, and explains the regulation of acid-base balance.

Defines the body fluid compartments, and explains the factors determining fluid shifts among the body compartments.

Describes the composition and functions of blood tissue and plasma.

Describes the morphology and functions of blood cells.

Lists the distinctive features of blood cells.

Describes the structure of the bone marrow, and explains the steps of hematopoiesis.

Describes the anatomical components and basic functions of the nervous system.

Describes the macroscopic structure of medulla spinalis and spinal nerves.

Describes the microscopic structure of nervous tissue.

Classifies the cells of nervous tissue, and explains the structural properties and functions of neurons.

Describes myelination in the peripheral and central nervous system, and explains its importance in terms of nervous system functions.

Defines the types of synaptic transmission, and explains the mechanisms that play a role in transmission.

Describes the neurotransmitters and their receptors of the central nervous system.

Explains the mechanisms involved in neuronal communication.

Describes the embryological terms.

Describes the formation of human embryo and their molecular interactions.

Performs basic medical skills (injections, taking blood from vein, opening the vein pathway).

## PROGRAM LEARNING OUTCOMES RELATED WITH COURSE LEARNING OBJECTIVES

COURSE LEARNING OBJECTIVES	PROGRAM LEARNING OUTCOMES
Describes the commonly used terms in anatomy.	LO-1
Defines the epithelial tissue types.	LO-1
Describes the histological features and functions of the covering epithelium.	LO-1
Describes the histological features and functions of the secretory epithelium.	LO-1
Describes the types of connective tissue, and explains their development and functions.	LO-1
Describes the cells, fibers and extracellular matrix of connective tissue.	LO-1
Describes the biochemistry of extracellular matrix.	LO-1
Describes the histological characteristics, development and functions of adipose tissue.	LO-1
Defines the general properties of the elements of musculoskeletal system.	LO-1
Describes the types, characteristics and development of cartilage tissue.	LO-1
Describes the general structure, characteristics and development of bone tissue.	LO-1
Describes the repair of bone and cartilage tissues.	LO-1
Classifies the types of muscle.	LO-1
Describes the histological characteristics, formation and functions of muscle tissue.	LO-1
Explains the contraction of skeletal muscle, cardiac muscle and smooth muscle cells.	LO-1
Defines the general properties of circulatory system.	LO-1
Defines the general properties of respiratory system.	LO-1
Defines the general properties of digestive system.	LO-1
Defines the general properties of genitourinary system.	LO-1
Defines the concepts of acid-base and buffer, and explains the regulation of acid-base balance.	LO-1
Defines the body fluid compartments, and explains the factors determining fluid shifts among the body compartments.	LO-1
Describes the composition and functions of blood tissue and plasma.	LO-1

Describes the morphology and functions of blood cells.	LO-1
Lists the distinctive features of blood cells.	LO-1
Describes the structure of the bone marrow, and explains the steps of hematopoiesis.	LO-1
Describes the anatomical components and basic functions of the nervous system.	LO-1
Describes the macroscopic structure of medulla spinalis and spinal nerves.	LO-1
Describes the microscopic structure of nervous tissue.	LO-1
Classifies the cells of nervous tissue, and explains the structural properties and functions of neurons.	LO-1
Describes myelination in the peripheral and central nervous system, and explains its importance in terms of nervous system functions.	LO-1
Defines the types of synaptic transmission, and explains the mechanisms that play a role in transmission.	LO-1
Describes the neurotransmitters and their receptors of the central nervous system.	LO-1
Explains the mechanisms involved in neuronal communication.	LO-1
Describes the embryological terms.	LO-1
Describes the formation of human embryo and their molecular interactions.	LO-1
Performs basic medical skills (injections, taking blood from vein, opening the vein pathway).	LO-1, LO-3

## ASSESSMENT AND EVALUATION

### ASSESSMENT SYSTEM

<b>MID-TERM EXAM</b>	Written exam
<b>PRACTICAL EXAM AT THE END OF COURSE</b>	<ul style="list-style-type: none"><li>• Objectively structured clinical exam for medical skills (15%)</li><li>• Objectively structured practical exam (15%)</li></ul>
<b>WRITTEN EXAM AT THE END OF COURSE</b>	Written exam consisting of multiple-choice questions
<b>CALCULATION OF COURSE FINAL SCORE</b>	Mid-term exam : 30% Practical exam at the end of course : 30% Written exam at the end of course : 50%

### PROGRAM EVALUATION

Evaluation at the end of the course is implemented both orally and electronically using structured evaluation forms.

## SUMMARY OF THE COURSE

	Lecture	Lab Practice	Medical Skills	Total
Anatomy	15	10		25
Histology & Embryology	27	14		41
Medical Biochemistry	4			4
Physiology	9	2		11
Anesthesiology & Reanimation			20	20
Medical Education & Informatics			20	20
<b>TOTAL</b>	<b>55</b>	<b>26</b>	<b>20</b>	<b>101</b>

## COURSE PROGRAM

### WEEK-1

#### MONDAY (27.01.2020)

08.30-09:15		
09:30-10:15	Introduction of the course	Prof. Özgür ÇINAR
10:30-11:15	Introduction to anatomy	Prof. Nihal APAYDIN
11:30-12:15	Introduction to terminology	Prof. Nihal APAYDIN
12:15-13:30	Lunch Break	
13:30-14:15	Introduction to tissue biology	Prof. Özgür ÇINAR
14:30-15:15	Independent Learning Session	
15:30-16:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK
16:30-17:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK

#### TUESDAY (28.01.2020)

08.30-09:15	Independent Learning Session	
09:30-10:15	Epithelial tissue types	Prof. Özgür ÇINAR
10:30-11:15	Epithelial tissue types	Prof. Özgür ÇINAR
11:30-12:15	Epithelial tissue, cell to cell/matrix junctional complexes	Prof. Özgür ÇINAR
12:15-13:30	Lunch Break	
13:30-14:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
14:30-15:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
15:30-16:15	ACADEMIC ADVISORY MEETING	
16:30-17:15		

#### WEDNESDAY (29.01.2020)

08.30-09:15	Basic Medical Skills (Opening the injector, Drug drawing from ampoule, Dilution of drug that in powder form)	Assoc. Prof. Özlem Selvi CAN Assoc. Prof. Başak C. MEÇO Assist. Prof. İpek GÖNÜLLÜ
09:30-10:15		
10:30-11:15		
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
14:30-15:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
15:30-16:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
16:30-17:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER



<b>THURSDAY (30.01.2020)</b>		
08.30-09:15	Connective tissue: Definition and types	Assoc. Prof. Sinan ÖZKAVUKCU
09:30-10:15	Connective tissue fibers, extracellular matrix	Assoc. Prof. Sinan ÖZKAVUKCU
10:30-11:15	Synthesis of collagen and elastin	Prof. Aslıhan GÜRBÜZ
11:30-12:15	Extracellular matrix biochemistry	Prof. Aslıhan GÜRBÜZ
12:15-13:30	Lunch Break	
13:30-14:15	Lab Practice: Epithelial tissue	Prof. Özgür ÇINAR
14:30-15:15		
15:30-16:15	ELECTIVE COURSES	
16:30-17:15		
<b>FRIDAY (31.01.2020)</b>		
08.30-09:15	Independent Learning Session	
09:30-10:15	Cells of connective tissue	Assoc. Prof. Sinan ÖZKAVUKCU
10:30-11:15	Adipose tissue	Assoc. Prof. Sinan ÖZKAVUKCU
11:30-12:15	Physiological properties of adipose tissue	Physiology
12:15-13:30	Lunch Break	
13:30-14:15	What have we learned this week?	
14:30-15:15		
15:30-16:15		
16:30-17:15		

<b>WEEK-2</b>		
<b>MONDAY (03.02.2020)</b>		
08.30-09:15	Lab Practice: Connective and adipose tissues	Assoc. Prof. Sinan ÖZKAVUKCU
09:30-10:15		
10:30-11:15	Introduction to osteology	Prof. Nihal APAYDIN
11:30-12:15	Introduction to arthrology	Prof. Nihal APAYDIN
12:15-13:30	Lunch Break	
13:30-14:15	Cartilage tissue: Types and cells	Prof. Bizden SABUNCUOĞLU
14:30-15:15	Independent Learning Session	
15:30-16:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK
16:30-17:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK
<b>TUESDAY (04.02.2020)</b>		
08.30-09:15	Bone tissue: General structure and cells	Prof. Bizden SABUNCUOĞLU

09:30-10:15	Bone tissue: General structure and cells	Prof. Bizden SABUNCUOĞLU
10:30-11:15	Bone and cartilage development and repair	Prof. Bizden SABUNCUOĞLU
11:30-12:15	Introduction to muscular system	Prof. Nihal APAYDIN
12:15-13:30	Lunch Break	
13:30-14:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
14:30-15:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
15:30-16:15	Independent Learning Session	
16:30-17:15		
<b>WEDNESDAY (05.02.2020)</b>		
08.30-09:15	Basic Medical Skills (Intradermal injection, Subcutaneous injection)	Assoc. Prof. Özlem Selvi CAN Assoc. Prof. Başak C. MEÇO Assist. Prof. İpek GÖNÜLLÜ
09:30-10:15		
10:30-11:15		
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
14:30-15:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
15:30-16:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
16:30-17:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
<b>THURSDAY (06.02.2020)</b>		
08.30-09:15	Independent learning for anatomy lab practice	Anatomy Lab
09:30-10:15		
10:30-11:15	Lab Practice: Introduction to musculoskeletal system	Prof. Nihal APAYDIN
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	Lab Practice: Cartilage and bone tissues	Prof. Bizden SABUNCUOĞLU
14:30-15:15		
15:30-16:15	ELECTIVE COURSES	
16:30-17:15		
<b>FRIDAY (07.02.2020)</b>		
08.30-09:15	Independent Learning Session	
09:30-10:15	Muscle tissue: Overview and skeletal muscle	Assoc. Prof. Deniz BİLLUR
10:30-11:15	Muscle tissue: Overview and skeletal muscle	Assoc. Prof. Deniz BİLLUR
11:30-12:15	Physiological properties of the skeletal muscle	Physiology
12:15-13:30	Lunch Break	

13:30-14:15	What have we learned this week?	
14:30-15:15		
15:30-16:15		
16:30-17:15		

### WEEK-3

#### MONDAY (10.02.2020)

08.30-09:15	Independent Learning Session	
09:30-10:15	Smooth muscle	Assoc. Prof. Deniz BİLLUR
10:30-11:15	Cardiac muscle	Assoc. Prof. Deniz BİLLUR
11:30-12:15	Physiological properties of the smooth muscle	Physiology
12:15-13:30	Lunch Break	
13:30-14:15	Introduction to circulatory system	Prof. Tülin ŞEN ESMER
14:30-15:15	Introduction to respiratory system	Prof. Tülin ŞEN ESMER
15:30-16:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK
16:30-17:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK

#### TUESDAY (11.02.2020)

08.30-09:15	Independent learning for anatomy lab practice	Anatomy Lab
09:30-10:15		
10:30-11:15	Lab Practice: Introduction to circulatory and respiratory systems	Prof. Tülin ŞEN ESMER
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
14:30-15:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
15:30-16:15	Independent Learning Session	
16:30-17:15		

#### WEDNESDAY (12.02.2020)

08.30-09:15	Basic Medical Skills (Intramuscular injection, Intravenous injection)	Assoc. Prof. Özlem Selvi CAN Assoc. Prof. Başak C. MEÇO Assist. Prof. İpek GÖNÜLLÜ
09:30-10:15		
10:30-11:15		
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	Development of Reading and Writing Skills in English II	Lect Deniz ÇOKER
14:30-15:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER

15:30-16:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
16:30-17:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
<b>THURSDAY (13.02.2020)</b>		
08.30-09:15	Independent Learning Session	
09:30-10:15	Physiological properties of the cardiac muscle	Physiology
10:30-11:15	Introduction to digestive system	Prof. Ayhan CÖMERT
11:30-12:15	Introduction to genitourinary system	Prof. Ayhan CÖMERT
12:15-13:30	Lunch Break	
13:30-14:15	Lab Practice: Muscle tissues	Assoc. Prof. Deniz BİLLUR
14:30-15:15		
15:30-16:15	ELECTIVE COURSES	
16:30-17:15		
<b>FRIDAY (14.02.2020)</b>		
08.30-09:15	Independent learning for anatomy lab practice	Anatomy Lab
09:30-10:15		
10:30-11:15	Lab Practice: Introduction to digestive and genitourinary systems	Prof. Ayhan CÖMERT
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	What have we learned this week?	
14:30-15:15		
15:30-16:15		
16:30-17:15		

### WEEK-4

<b>MONDAY (17.02.2020)</b>		
08.30-09:15	MID-TERM EXAM	
09:30-10:15		
10:30-11:15		
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	Acid-base and buffer concepts	Medical Biochemistry
14:30-15:15	Regulation of acid-base balance	Medical Biochemistry
15:30-16:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK
16:30-17:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK

<b>TUESDAY (18.02.2020)</b>		
08.30-09:15	Independent Learning Session	
09:30-10:15	Body fluids and body fluid compartments	Physiology
10:30-11:15	Fluid exchange between body compartments	Physiology
11:30-12:15	Independent Learning Session	
12:15-13:30	Lunch Break	
13:30-14:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
14:30-15:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
15:30-16:15	Independent Learning Session	
16:30-17:15		
<b>WEDNESDAY (19.02.2020)</b>		
08.30-09:15	Basic Medical Skills (Taking blood from vein)	Assoc. Prof. Özlem Selvi CAN Assoc. Prof. Başak C. MEÇO Assist. Prof. İpek GÖNÜLLÜ
09:30-10:15		
10:30-11:15		
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
14:30-15:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
15:30-16:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
16:30-17:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
<b>THURSDAY (20.02.2020)</b>		
08.30-09:15	Independent Learning Session	
09:30-10:15	Fundamentals of blood tissue and plasma	Assoc. Prof. Sinan ÖZKAVUKCU
10:30-11:15	Introduction to bone marrow and hematopoiesis	Assoc. Prof. Sinan ÖZKAVUKCU
11:30-12:15	Independent Learning Session	
12:15-13:30	Lunch Break	
13:30-14:15	Lab Practice: Blood tissue, bone marrow and hematopoiesis	Assoc. Prof. Sinan ÖZKAVUKCU
14:30-15:15		
15:30-16:15	ELECTIVE COURSES	
16:30-17:15		
<b>FRIDAY (21.02.2020)</b>		
08.30-09:15	Independent Learning Session	
09:30-10:15	Introduction to central nervous system	Prof. Nihal APAYDIN
10:30-11:15	Introduction to peripheral nervous system	Prof. Nihal APAYDIN

11:30-12:15	Independent Learning Session	
12:15-13:30	Lunch Break	
13:30-14:15	What have we learned this week?	
14:30-15:15		
15:30-16:15		
16:30-17:15		

WEEK-5		
<b>MONDAY (24.02.2020)</b>		
08.30-09:15	Independent Learning Session	
09:30-10:15	Overview of the nervous system, nerve tissue and neuron	Prof. Belgin CAN
10:30-11:15	Types of glial cells and myelination	Prof. Belgin CAN
11:30-12:15	Connective tissue components of peripheral nervous system	Prof. Belgin CAN
12:15-13:30	Lunch Break	
13:30-14:15	Introduction to autonomic nervous system	Prof. Nihal APAYDIN
14:30-15:15	Introduction to autonomic nervous system	Prof. Nihal APAYDIN
15:30-16:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK
16:30-17:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK
<b>TUESDAY (25.02.2020)</b>		
08.30-09:15	Independent learning for anatomy lab practice	Anatomy Lab
09:30-10:15		
10:30-11:15	Lab Practice: Introduction to nervous system	Prof. Nihal APAYDIN
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
14:30-15:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
15:30-16:15	Independent Learning Session	
16:30-17:15		
<b>WEDNESDAY (26.02.2020)</b>		
08.30-09:15	Basic Medical Skills (Opening the vein pathway)	Assoc. Prof. Özlem Selvi CAN Assoc. Prof. Başak C. MEÇO Assist. Prof. İpek GÖNÜLLÜ
09:30-10:15		
10:30-11:15		
11:30-12:15		

12:15-13:30	Lunch Break	
13:30-14:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
14:30-15:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
15:30-16:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
16:30-17:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
<b>THURSDAY (27.02.2020)</b>		
08.30-09:15	Synaptic transmission	Lect. Simge A. ZERGEROĞLU
09:30-10:15	Neurotransmitters	Lect. Simge A. ZERGEROĞLU
10:30-11:15	General organization of the spinal cord	Prof. Nihal APAYDIN
11:30-12:15	Spinal nerves	Prof. Nihal APAYDIN
12:15-13:30	Lunch Break	
13:30-14:15	Lab Practice: Nervous tissue, cells, peripheral nerves and spinal ganglia	Prof. Belgin CAN
14:30-15:15		
15:30-16:15	ELECTIVE COURSES	
16:30-17:15		
<b>FRIDAY (28.02.2020)</b>		
08.30-09:15	Independent learning for anatomy lab practice	Anatomy Lab
09:30-10:15	Lab Practice: General organization of the spinal cord and spinal nerves	Prof. Nihal APAYDIN
10:30-11:15		
11:30-12:15	Synaptic integration	Lect. Simge A. ZERGEROĞLU
12:15-13:30	Lunch Break	
13:30-14:15	Embryological terms and introduction to human embryology	Prof. Alp CAN
14:30-15:15	Fertilization and first week of life	Prof. Alp CAN
15:30-16:15	What have we learned this week?	
16:30-17:15		

## WEEK-6

<b>MONDAY (02.03.2020)</b>		
08.30-09:15	Lab Practice: Nerve conduction velocity	Physiology
09:30-10:15		
10:30-11:15	Second week of life	Prof. Alp CAN
11:30-12:15	Gastrulation and 3-8 weeks of life	Prof. Alp CAN
12:15-13:30	Lunch Break	

13:30-14:15	Independent Learning Session	
14:30-15:15		
15:30-16:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK
16:30-17:15	Turkish Language II	Lect. Meltem AYABAKAN İPEK
<b>TUESDAY (03.03.2020)</b>		
08.30-09:15	Fetus development	Prof. Alp CAN
09:30-10:15	Placenta, amnion and twinnings	Prof. Alp CAN
10:30-11:15	Lab Practice: Human embryology	Prof. Alp CAN
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
14:30-15:15	Ataturk's Principles and History of Revolution II	Lect. Demo Ahmet ASLAN
15:30-16:15	Independent Learning Session	
16:30-17:15		
<b>WEDNESDAY (04.03.2020)</b>		
08.30-09:15	MEDICAL SKILLS EXAM (Opening the injector, Drug drawing from ampoule, Dilution of drug that in powder form, Intradermal injection, Subcutaneous injection, Intramuscular injection, Intravenous injection, Taking blood from vein, Opening the vein pathway)	Assoc. Prof. Özlem Selvi CAN Assoc. Prof. Başak C. MEÇO Assist. Prof. İpek GÖNÜLLÜ
09:30-10:15		
10:30-11:15		
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
14:30-15:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
15:30-16:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
16:30-17:15	Development of Reading and Writing Skills in English II	Lect. Deniz ÇOKER
<b>THURSDAY (05.03.2020)</b>		
08.30-09:15	INDEPENDENT STUDY FOR EXAMS	
09:30-10:15		
10:30-11:15		
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	INDEPENDENT STUDY FOR EXAMS	
14:30-15:15		
15:30-16:15	ELECTIVE COURSES	
16:30-17:15		



FRIDAY (06.03.2020)		
08.30-09:15	PRACTICAL EXAM AT THE END OF COURSE	
09:30-10:15		
10:30-11:15		
11:30-12:15		
12:15-13:30	Lunch Break	
13:30-14:15	WRITTEN EXAM AT THE END OF COURSE	
14:30-15:15		
15:30-16:15	FEEDBACK SESSION OF THE COURSE	All Faculty Members
16:30-17:15		

## READING/STUDYING SOURCES

- Gray's Anatomy for Students (3rd Edition); Richard L. Drake, A. Wayne Vogl, Adam W. M. Mitchell; Churchill Livingstone Elsevier, Philadelphia, 2015.
- Histology and Cell Biology: An Introduction to Pathology (4th Edition); Abraham L. Kierszenbaum, Laura L. Tres; Elsevier Saunders, Philadelphia, 2015.
- The Developing Human: Clinically Oriented Embryology (10th Edition); Keith L. Moore, T.V.N. Persaud, Mark G. Torchia; Elsevier, Philadelphia, 2015.
- Langman's Medical Embryology (13th Edition); T. Sadler; Lippincott Williams & Wilkins, Philadelphia, 2015.
- Guyton and Hall Textbook of Medical Physiology (13th Edition); John E. Hall; Elsevier, Philadelphia, 2016.
- Harper's Illustrated Biochemistry (30th Edition); Victor W. Rodwell, David Bender, Kathleen M. Botham, Peter J. Kennelly, P. Anthony Weil; McGraw-Hill, 2015.
- Molecular and Cellular Biophysics; Meyer B. Jackson; Cambridge University Press, Cambridge, 2006.