YEDİTEPE UNIVERSITY

FACULTY OF MEDICINE

PHASE I

ACADEMIC PROGRAM BOOK

2022 - 2023

Student's;
Name : .....
Nr : .....

YEDİTEPE UNIVERSITY

FACULTY OF MEDICINE

PHASE I

CONTENT **Page**

COORDINATION COMMITTEE

(TEACHING YEAR 2022–2023)

Elif Çiğdem KELEŞ, Ph.D, Assist. Prof. (Coordinator)
Aylin YABA UÇAR, Ph.D, Assoc. Prof. (Co-Coordinator)
Bilge GÜVENÇ TUNA Ph.D, Assoc. Prof. (Co-Coordinator)
Seda Güleç YILMAZ, Ph.D, Assoc. Prof. (Co-Coordinator)
Aikaterini PANTELI, MD, Assist. Prof. (Co-Coordinator)
Oya AKÇIN ALAGÖZ, MD, Assist. Prof (Co-Coordinator)
Ahmet SAÇ, MD, (Co-Coordinator)

ICP-I COORDINATION COMMITTEE

Özlem TANRIÖVER MD, Prof. (Coordinator)
Ayşe Arzu AKALIN MD, Assist. Prof. (Co-coordinator)

FREE ELECTIVE COURSES COORDINATION COMMITTEE

Ayşe Arzu AKALIN, MD, Assist. Prof. (Coordinator)
Seda GÜLEÇ YILMAZ, PhD. Assoc. Prof. (Co-coordinator)

PBL COORDINATION COMMITTEE

Serdar ÖZDEMİR, MD, PhD, Assist. Prof. (Coordinator)
Deniz KIRAÇ, PhD, Assoc. Prof. (Co-Coordinator)

ACADEMIC CALENDAR 2022-2023

MED 104 BASIC MEDICAL SCIENCES I

COMMITTEE I

INTRODUCTION to BASIC MEDICAL SCIENCES (7 Weeks)

Beginning of Committee	September 19, 2022	Monday
End of Committee	November 4, 2022	Friday
Committee Medical Biology Practical Exam	November 2, 2022	Tuesday
Committee Histology& Embryology Practical Exam	November 2, 2022	Tuesday
Committee Medical Anatomy Practical Exam	November 2, 2022	Tuesday
Committee Theoretical Exam	November 4, 2022	Friday
National Holiday	**October 28[1/2]- 29, 2022**	**Friday-Saturday**

COMMITTEE II

CELL (8 Weeks)

Beginning of Committee	November 7, 2022	Monday
End of Committee	December 28, 2022	Wednesday
Committee Anatomy Practical Exam	December 26, 2022	Monday
Committee Histology& Embryology Practical Exam	December 26, 2022	Monday
Committee Physiology Practical Exam	December 26, 2022	Monday
Committee Medical Biology Practical Exam	December 26, 2022	Monday
Committee Theoretical Exam	December 28, 2022	Wednesday
Commemoration of Atatürk	**November 10, 2022**	**Thursday**

COMMITTEE III

TISSUE I (6 Weeks)

Beginning of Committee	January 2, 2023	Monday
End of Committee	February 24, 2023	Friday
Committee Histology& Embryology Practical Exam	February 22, 2023	Wednesday
Committee Physiology Practical Exam	February 22, 2023	Wednesday
Committee Anatomy Practical Exam	February 22, 2023	Wednesday
Committee Theoretical Exam	February 24, 2023	Friday
New Year	**January 01, 2023**	**Sunday**
MIDTERM BREAK	**January 23, 2023**	**February 3, 2023**

COMMITTEE IV

TISSUE II (8 Weeks)

Beginning of Committee	February 27, 2023	Monday
End of Committee	April 28, 2023	Friday
Committee Anatomy Practical Exam	April 26, 2023	Wednesday
Committee Medical Biology Practical Exam	April 26, 2023	Wednesday
Committee Histology& Embryology Practical Exam	April 26, 2023	Wednesday
Committee Biochemistry Practical Exam	April 26, 2023	Wednesday
Committee Theoretical Exam	April 28, 2023	Thursday
Physicians' Day	**March 14, 2023**	**Tuesday**

Religious Holiday	**April 20[1/2]-23, 2023**	**Thursday-Sunday**
National Holiday	**April 23,2023**	**Sunday**

COMMITTEE V
ENERGY and METABOLISM (6 Weeks)

Beginning of Committee	May 2, 2023	Tuesday
End of Committee	June 9, 2023	Friday
Committee Biostatistics Practical Exam	June 7, 2023	Wednesday
Committee Biostatistics Practical Exam	June 7, 2023	Wednesday
Committee Histology& Embryology Practical Exam	June 7, 2023	Wednesday
Committee Anatomy Practical Exam	June 7, 2023	Wednesday
Committee Theoretical Exam	June 9, 2023	Friday

Labor's Day	**May 1, 2023**	**Monday**
National Holiday	**May 19, 2023**	**Friday**

First Progress Test	January 12,2023	Thursday
Make-up Exam	June 14-16, 2023	Wednesday-Friday
Second Progress Test	June 20,2023	Tuesday
Final Exam	July 6, 2023	Tuesday
Incomplete Exam	July 24, 2023	Monday

FREE ELECTIVE COURSES-Spring 2022-2023

Beginning of Elective Courses	February 10, 2023	Friday
End of Elective Courses	May 26, 2023	Friday
Midterm Exam	March 24, 2023	Friday
Make-up Exam	May 29-June 2, 2023	Monday-Friday
Final Exam	June 12-16, 2023	Monday-Friday
Incomplete Exam	July 03-14, 2023	Monday-Friday

MED 102 INTRODUCTION to CLINICAL PRACTICE I (ICP-I)

Beginning of Course	September 27, 2022	Tuesday
End of Course	May 30, 2022	Tuesday
Midterm Exam	February 14, 2023	Tuesday
Make-up Exam	June 2, 2023	Friday
Final Exam	June 15-16, 2023	Thursday-Friday
Incomplete Exam	July 19, 2023	Wednesday

MED 103 ANATOMICAL DRAWING

Beginning of Course	September 27, 2022	Tuesday
End of Course	May 16, 2023	Tuesday
First Midterm Exam	November 8, 2022	Tuesday
Second Midterm Exam	January 3, 2023	Tuesday
Third Midterm Exam	February 28, 2023	Tuesday
Fourth Midterm Exam	May 9, 2023	Tuesday
Final Exam	May 30, 2023	Tuesday

Incomplete Exam	June 13, 2023	Tuesday
TKL 201&202 TURKISH LANGUAGE & LITERATURE	**TKL**	
Fall Final Exam	December 29, 2022	Thursday (09:00-11:00)
Spring Final Exam	May 23, 2023	Tuesday (09:00-11:00)
HTR 301&302 ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	**HTR**	
Fall Final Exam	December 30, 2022	Friday (09:00-18:00)
Spring Final Exam	May 22, 2023	Monday (09:00-18:00)
HUM 103 HUMANITIES	**HUM**	
Fall Final Exam	December 29, 2022	Thursday (14:00-17:00)

COORDINATON COMMITTEE MEETINGS

1. Coordination Committee Meeting	October 20, 2022	Thursday 15:00
2. Coordination Committee Meeting	January 10, 2023	Tuesday 15:00 (with student participation)
3. Coordination Committee Meeting	May 23, 2023	Tuesday 15:00 (with student participation)
4. **Coordination Committee Meeting**	July 11, 2023	Tuesday 15:00

UNDERGRADUATE MEDICAL EDUCATION PROGRAM

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE

AIM OF MEDICAL EDUCATION PROGRAM

*"Consensus Commission Report" based on draft compiled at "*Workshop for Revision of Aim and Outcomes of Medical Education Program at Yeditepe University Faculty of Medicine*"

AIM

The aim of medical education program ***is to graduate physicians*** who

1.0 **are aware of** the local and global health issues
2.0 **have acquired competence** in knowledge, skills and attitudes to manage and provide primary health care service
3.0 **know**, **apply** and **care** for ethical principles of the medical profession
4.0 **keep up with** current knowledge at national and international level
5.0 **are capable of** systematical thinking
6.0 **are** investigative and questioning
7.0 continually **renovate** and **improve** themselves
8.0 **are capable of** teamwork
9.0 **use** technology competently in medicine and related areas
10.0 **have** effective communication skills
11.0 **have** community leadership qualifications

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE
PROGRAM OUTCOMES OF MEDICAL EDUCATION

YUTF - Undergraduate Medical Education Program was designed to provide our graduates with the competencies that are specified in the National Competencies List of medical graduates (UYYB).

UYYB is a national document that indicates the expected/required competencies of the students who are at the stage of graduating from Medical Schools in Turkey.

You can find UYYB from the link: https://www.yok.gov.tr/Documents/Kurumsal/egitim_ogretim_dairesi/Ulus al -cekirdek-egitimi-programlari/mezuniyet_-oncesi-tip-egitimi-cekirdek-egitimi-programi.pdf

INSTRUCTIONAL DESIGN of PRECLINICAL YEARS

In Phase I, II and III, the formation of committees is based on a thematic structure. This structure corresponds to organizational levels of the human body such as macromolecule, organelle, cell, tissue, organ systems and finally introduction to pathogenesis.

- Phase I: Normal structure and function of the human body at molecular, cellular, tissue and organ level.
- Phase II: Normal structure and function of human body at system and multi-system level, and introduction to pathogenesis.
- Phase III: Physiopathological and pathological processes in the human body.

Beside this thematic structure, there is a continuous clinical skills education in Phase I, II and III, as "Introduction to Clinical Practice -I, -II and -III" courses.

Therefore, the core medical courses are;

- Phase I: MED 104 Basic Medical Sciences I, MED 102 Introduction to Clinical Practice I, MED 103 Anatomical Drawing,
- Phase II: MED 203 Basic Medical Sciences II, MED 202 Introduction to Clinical Practice II,
- Phase III: MED 302 Introduction to Clinical Sciences, MED 303 Introduction to Clinical Practice III.

The learning objectives of each phase include learning objectives of core committees. The learning objectives of committees include learning objectives of core topics' components for the committee.

2022-2023 CURRICULUM OF PHASE I

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE

CODE		FIRST YEAR	W	T	A	L	Y	E
MED	104	Basic Medical Sciences I	37	490		55	40	40
MED	102	Introduction to Clinical Practice I	35	28		22	5	5
MED	103	Anatomical Drawing	28	10		46	3	2
MED	XXX	Free Elective Course[1] (SS)	14	28			2	2
HUM	103	Humanities[2] (FS)	14	28			2	3
TKL	201	Turkish Language I[2] (FS)	14	28			2	2
TKL	202	Turkish Language II[2] (SS)	14	28			2	2
HTR	301	History of Turkish Revolution I[2] (FS)	14	28			2	2
HTR	302	History of Turkish Revolution II[2] (SS)	14	28			2	2
Total Credits								60

The curriculum applies to 2022-2023 educational term. The duration of educational term for each year is shown in the table as total number of weeks. ECTS credits are the university credits of the courses in Yeditepe University Faculty of Medicine Undergraduate Medical Education Program. 1 ECTS=30 hours of workload including independent study hours per average student. GPA and cGPA calculations are based on ECTS credits.

[1]Free Elective Courses. Only one of the free elective courses provided by Faculty of Medicine can be selected in an educational year.Free elective courses provided by Faculty of Medicine in the first three years: MED 611 Medical Anthropology, MED 612 Creative Drama I, MED 613 Medical Humanities, MED 614 Personal Trademark Development, ,MED 615 Innovation Management, MED 616 Medical Management and New Services Design Skills, MED 619 Entrepreneurship and Storytelling Techniques f or Business Purposes, MED 620 Art, Culture and Life Styles, MED 621 Epidemiological Research and Evidence Based Medicine, MED 622 Applications of Economics in Health Care, MED 623 Visual Presentation in Medicine, MED 627 Presentation of Medicine on Media, MED 628 Healthy Living, MED 629 Music and Medicine, MED 630 Health Law, MED 631 Creative Drama II, MED 632 Music Appreciation, MED 633 Communication with Hearing Impaired Patients in Turkish Sign Language, MED 634 Case Based Forensic Science, MED 635 Advanced Level Communicatio n with Hearing Impaired Patients in Turkish Sign Language

[2]Common Courses. These courses are obligatory in all programs of the university. The university credit values of the common courses are as stated by the Univ ersity Senate. Except for HUM 103, these courses are not to be included in the GPA and cGPA calculations. Courses on Turkish Language and Culture for Foreigners (AFYA). Based on the result of Turkish Language Proficiency Exam, instead of TKL 201 (FS) and TKL 202 (SS) courses, international students will be requested to take the required ones from the AFYA 101 (FS), AFYA 102 (SS), AFYA 201 (FS) and AFYA 202 (SS) courses, designed for them. Each of these courses have credits as Y=3 and E=5. These courses are not to be included in t he GPA and cGPA calculations.

T: Theoretical, A: Application , L: Laboratory, Y: Yeditepe University Credit, E: ECTS Credit	**Minimum Degree Requirements**	
NC: Non-Credit Course, FS: Fall Semester, SS: Spring Semester, W: Weeks.	**ECTS**	**360**
Approval Date:	**Number of courses**	**53**

* Please see https://med.yeditepe.edu.tr/sites/default/files/curriculum_2022-23_tr.docx for total cirriculum of Faculty of Med.

DESCRIPTION and CONTENT of PHASE I

Normal Physiology, Basic Sciences and Medical Terms.

Introduction to Basic Sciences, Cell, Tissue I, Tissue II, Energy and Metabolism.

Organic Chemistry, Biophysics, Medical Biology, Medical History and Ethics, Anatomy, Anatomical Drawing, Physiology, Histology & Embryology, Medical Biochemistry, Medical Microbiology, Immunology, Family Medicine, Medical Education, Biostatistics, Humanities, Behavioral Sciences, Turkish Language and Literature, Principles of Atatürk and Modern History of Turkey.

AIM and LEARNING OBJECTIVES of PHASE I

AIM

To convey basic knowledge on medical history, organic chemistry, biology, biophysics, biochemistry, biostatistics, anatomy, physiology, embryology, histology, microbiology, immunology, behavioral sciences, civilization history and medical ethics.

To convey complementary educational experiences by improving biopsychosocial approach on medical practice.

To prepare students to clinical practice.

LEARNING OBJECTIVES

At the end of this phase, student should be able to:

KNOWLEDGE

1.0 explain information about medical history, anatomy, physiology, embryology, histology, organic chemistry, biology, biophysics, biochemistry, biostatistics, microbiology, immunology, behavioral sciences, civilization history and medical ethics and elective courses.

2.0 for biophysics;

2.1. explain basic terms and concepts.

2.2. explain its essential application areas in medicine.

3.0 explain the structure and function of the cell.

4.0 describe the stages of early embryonic development.

5.0 define four basic tissue types with cells and extracellular matrix.

6.0 define transport mechanism of biological membranes and its correlation with ATP usage

7.0 list the enzymes in blood coagulation

8.0 for enzymes;

8.1. list basic properties and classes of enzymes,

8.2. describe regulatory functions of enzymes,

8.3. define the functions of enzymes in

9.0 define the link between the structure and function of tissues.

10.0 define muscular, vascular and nervous systems.

11.0 list basic properties and classes of microorganisms.

12.0 describe basic terms and concepts about first aid.

13.0 describe basic terms and concepts of communication skills.

14.0 describe basic terms and concepts about epidemiology.

15.0 list fundamental steps of a research study.

16.0 describe basic terms of concepts of biostatistics.

17.0 explain case scenario related basic medical science topics in a clinical context.

18.0 define basic elements of immune response

19.0 describe scientific study design and types of scientific research

SKILLS

1.0 apply first aid skills on anatomic model.

2.0 use communication skills in patient-doctor interviews in simulated settings.

3.0 Search scientific literature

4.0 apply basic laboratory techniques and use equipment.

5.0 use biopsychosocial approach on medical practice.

6.0 display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.

7.0 write a scientific article review

ATTITUDES

1.0 value teamwork, interpersonal skills, and significance of psychosocial issues

AIM and LEARNING OBJECTIVES of BASIC MEDICAL SCIENCES I (MED 104)

AIM

To convey basic knowledge on medical history, organic chemistry, biology, biophysics, biochemistry, biostatistics, anatomy, physiology, embryology, histology, microbiology, immunology, behavioral sciences, civilization history and medical ethics.

LEARNING OBJECTIVES

At the end of this phase, student should be able to:

KNOWLEDGE

1.0 explain information about medical history, anatomy, physiology, embryology, histology, organic chemistry, biophysics, biochemistry, microbiology, behavioral sciences, civilization history and medical ethics
2.0 for biophysics
    2.1. explain basic terms and concepts.
    2.2. explain its essential application areas in medicine.
3.0 explain the structure and function of the cell.
4.0 describe the stages of early embryonic development
5.0 define four basic tissue types with cells and extracellular matrix.
6.0 describe the ATP production by substrate level phosphorylation and oxidative phosphorylation
7.0 for carbohydrate metabolism;
    7.1. define the digestion and absorption of carbohydrates
    7.2.explain glucose and glycogen metabolism, apply blood.
8.0 define the link between the structure and function of tissues.
9.0 define muscular, vascular and nervous systems.
10.0 list basic properties and classes of microorganisms.
11.0 describe basic terms and concepts about epidemiology.
12.0 list fundamental steps of a research study.
13.0 describe basic terms of concepts of biostatistics.
14.0 explain case scenario related basic medical science topics in a clinical context.
15.0 define basic elements of immune response
16.0 describe scientific study design and types of scientific research

SKILLS

1.0 apply basic laboratory techniques and use equipment.
2.0 present research data with tables, graphs and statistics.
3.0 use biopsychosocial approach on medical practice.
4.0 display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.
5.0 search scientific literature
6.0 write a scientific article review

ATTITUDES

1.0. value teamwork, interpersonal skills, and significance of psychosocial issues

DESCRIPTION of INTRODUCTION to CLINICAL PRACTICE I, II and III (ICP-I,-II,-III) (MED 102, MED 202, MED 303)

AIM of ICP PROGRAM

The aim of Introduction to Clinical Practice Program is to equip the students with basic medical skills and attitudes, in areas such as history taking regarding to systems and in general, physical and mental examination in simulated environments in pre-clinical period and to give the students opportunity to develop skills by applying non –invas ive or invasive procedures on the mannequins before encountering with real patients.

Description

ICP is a three year longitudinal course that aims to introduce students to the concepts and main elements of medical practice. It will also be an introduction to the medical profession as a whole and will provide a foundation for clinical practice. The course provides knowledge, cognitive and motor skills and experience in fundamental processes and aspects of medical practice. It involves the application of scientific theory, quality assurance and evidence-based best practice protocols.

Credit Facility

This course has 5 ECTS credits for each of the first three years and all of the students are required to pass this course in order to pass the year.

Content of the ICP I-II-III

First year medical students gain knowledge on First Aid approaches, Basic Knowledge on Infection Control and Standard Precautions, develop skills in Basic Life Support, Patient/Casualty Transportation and Bandaging Techniques regarding to First Aid and handwashing, wearing sterile gloves, wearing masks, assessing vital signs. They also acquire basic knowledge on communication and experience patient-doctor encounter with simulated patients (SP's)*.

The second years ICP Program consist of modules like nasogastric intubation; bladder catheterization; intramuscular, subcutaneous, intradermal and intravenous injections; intravenous catheterization as well as intraarterial blood sampling.

In the third year medical students practice with SP's clinical skills like history taking and physical examination focused on body systems and in general and also mental examination. They also gain clinical skills such as suturing techniques and Advanced Cardiac Life Support.

Clinical Skills Laboratory

The Clinical Skills Laboratory is designed for teaching and assessing students at undergraduate level (during the preclinical period from first-year to third year). The lab provides learners with the ideal setting to practice the clinical skills of history taking, physical examination, communication, and gives opportunities to practice invas ive and non invasive procedural skills on mannequins.

Each OSCE room is equipped with video cameras and microphones to record the encounter. An observat ion area at the center of the lab allows faculty and students to observe the encounters live or view digital recording s for subsequent analysis.

***Simulated Patients (SPs)**

The simulated patient encounters fascilitate transfer of the gained theoretical knowledge to practice in simulated environments. SPs are usually, but not necessarily, lay people who are trained to portray a patient with a specific condition in a realistic way, sometimes in a standardized way (where they give a consistent presentation which does not vary from student to student). SPs are used for teaching and assessment of consultation and clinical/physical examination skills, in simulated teaching environments or in situ. (*Cleland JA, Abe K, Rethans JJ. The use of simulated patients in medical education: AMEE Guide No 42. Med Teach. 2009 Jun;31(6):477-86. doi: 10.1080/01421590903002821. PMID: 19811162.*)

Assessment

The Assessment procedure of ICP is given in the Assessment Table in this booklet.

Rules for Attendance of the Students

Students are grouped into 4 or 5 and group lists are announced to the class and also displayed in the ICP Lab announcement board at the beginning of the year. Any changes to practical groups on a week by week basis, will only be considered in exceptional situations such as a medical one. Any changes must be requested by a petition along with relevant documentation to the deanary. Any change in sessions will only be accepted interchangeably with another student in another group based on availability of work spaces and course coordinator's discretion (based on evidence provided).

Students are required to follow the rules of professional ethics in the laboratory at any time.

Program Evaluation

Each Semester students are required to fill out a feedback form according the ICP Program. When an OSCE is conducted both students and faculty members complete a written evaluation of the event for the improvement of the course and OSCE.

AIM and LEARNING OBJECTIVES of INTRODUCTION to CLINICAL PRACTICE I (ICP-I) (MED 102)

AIM

The aim of Introduction to Clinical Practice-I is to equip first year medical students with basic knowledge and skills on Infection Control and Standard Precautions including hand washing, wearing sterile gloves and masks, measurement skills for basic vital signs and First Aid approaches and convey basic knowledge on communication and provide them the opportunity to experience patient-doctor encounters with simulated patients.

LEARNING OBJECTIVES

At the end of this phase, student should be able to:

KNOWLEDGE

1.0 describe the techniques of hand washing, wearing sterile gloves and masks in accordance with the skill procedure
2.0 describe modes of transmission and infection control measures
3.0 list Standard Precautions
4.0 describe basic terms and concepts of communication skills
5.0 describe basic terms and concepts about first aid
6.0 define vital signs
7.0 describe measurement of blood pressure with sphygmomanometer in adults in accordance with the skill procedure
8.0 recall the normal ranges of vital signs
9.0 describe the steps of measurement techniques of vital signs

SKILLS

1.0 apply hand washing and wearing sterile gloves and masks skills in accordance with the skill procedure
2.0 use communication skills in patient-doctor interviews
3.0 apply first aid skills on mannequins
4.0 measure blood pressure by using adult sphygmomanometer in accordance with the skill procedure
5.0 measure body temperature in accordance with the skill procedure
6.0 count pulse rate in accordance with the skill procedure
7.0 count respiratory rate in accordance with the skill procedure

ATTITUDE

1.0 values the importance of informed consent
2.0 pays attention to patient privacy
3.0 values the importance of not exceeding the limits of his/her own competency level
4.0 pays attention to follow laboratory rules

MED 102 ICP I COURSE 2022-2023 ACADEMIC PROGRAM

MED 102 ICP-I			
DAY	**HOUR**	**SUBJECT**	**LECTURER**
27-Sep-22	11.00-11.50	Introduction to ICP Programmes	ÖzlemTanrıöver
TUESDAY			Arzu Akalın
	12.00-12.50	Hand Washing and Wearing Sterile Gloves and Masks	ÖzlemTanrıöver
04-Oct-22	10.00-12.50	CSL: Hand Washing and Wearing Sterile Gloves and Masks Group A	Özlem Tanrıöver / Serdar Özdemir
TUESDAY			
11-Oct-22	10.00-12.50	CSL: Hand Washing and Wearing Sterile Gloves and Masks Group B	Özlem Tanrıöver / Serdar Özdemir
TUESDAY			
18-Oct-22	10.00-12.50	CSL: Hand Washing and Wearing Sterile Gloves and Masks Group C	Arzu Akalın / Serdar Özdemir
TUESDAY			
25-Oct-22	10.00-12.50	CSL: Hand Washing and Wearing Sterile Gloves and Masks Group D	Arzu Akalın / Serdar Özdemir
TUESDAY			
26-Oct-22	14.00-17.50	CSL: Hand Washing and Wearing Sterile Gloves and Masks Group E	Arzu Akalın / Serdar Özdemir
WEDNESDAY			
FIRST AID PROGRAMMES			
8-Nov-22	10.00-10.50	Introduction to the First Aid Programmes	Güldal İzbırak
TUESDAY	11.00-11.50	Basic Human Body	Arzu Akalın
	12.00-12.50	Scene Assessment	Arzu Akalın

15-Nov-22	09:00-09:50	Basic Life Support and Heimlich Maneuver	Güldal İzbırak
TUESDAY	10:00-10:50	Basic Life Support and Heimlich Maneuver	
	11:00-11:50	Shock and Bleeding Control	
	12:00-12:50	Burns, Freezing, Frostbite	ÖzlemTanrıöver
22-Nov-22	09:00-09:50	Injuries	Arzu Akalın
TUESDAY	10:00-10:50	Foreign Objects	Arzu Akalın
	11:00-11:50	Fractures and Dislocation	ÖzlemTanrıöver
	12:00-12:50	The Unconscious Casualty	Güldal İzbırak
23-Nov-22	09:00-09:50	Drow ning	Güldal İzbırak
TUESDAY	10:00-10:50	Poisoning	Arzu Akalın
29-Nov-22	09:00-09:50	Insect Bite	ÖzlemTanrıöver
TUESDAY	10:00-10:50	Patient-Casualty Transportation Techniques	
	11:00-11:50	Legal Aspect of First Aid	Elif Vatanoğlu
	12:00-12:50	Legal Aspect of First Aid	Elif Vatanoğlu
6-Dec-22	09.00-12.50	LAB: Basic Life Support and Heimlich **Group A**	Sezgin Sarıkaya / Y. Emre Vural / Serdar Özdemir
TUESDAY			
9-Dec-22	14.00-17.50	LAB: Basic Life Support and Heimlich **Group B**	Pınar Tura / Beşir Demir / Serdar Özdemir
FRIDAY			

13-Dec-22 **TUESDAY**	09.00-12.50	LAB: Basic Life Support and Heimlich **Group C**	Cem Şimşek / Y. Emre Vural / Serdar Özdemir
16-Dec-22 **FRIDAY**	14.00-17.50	LAB: Basic Life Support and Heimlich **Group D**	Gökhan Gencer / Ayfer İskender / Serdar Özdemir
20-Dec-22 **TUESDAY**	09.00-12.50	LAB: Basic Life Support and Heimlich **Group E**	Hande Candemir / Ayfer İskender / Serdar Özdemir
3-Jan-23 **TUESDAY**	09.00-12.50	LAB: Patient-Causalty Transportation / Bandaging Techniques **Group A**	Serdar Özdemir / Abuzer Kekeç
10-Jan-23 **TUESDAY**	09.00-12.50	LAB: Patient-Causalty Transportation / Bandaging Techniques **Group B**	Serdar Özdemir / Erman Uygun
13-Jan-23 **FRIDAY**	14.00-17.50	LAB: Patient-Causalty Transportation / Bandaging Techniques **Group C**	Serdar Özdemir / Cem Şimşek
17-Jan-23 **TUESDAY**	09.00-12.50	LAB: Patient-Causalty Transportation / Bandaging Techniques **Group D**	Serdar Özdemir / Sezgin Sarıkaya
20-Jan-23 **FRIDAY**	14.00-17.50	LAB: Patient-Causalty Transportation / Bandaging Techniques **Group E**	Serdar Özdemir / Hande Candemir

COMMUNICATION SKILLS			
7-Feb-23	09:00-09:50	Lecture Introduction to Communication Skills	Özlem Tanrıöver
TUESDAY	10:00-10:50	Basic Communication Skills	Arzu Akalın
	11:00-11:50		
	12:00-12:50	Giving Information	Özlem Tanrıöver
8-Feb-23	09:00-09:50	The Medical Interview	Güldal İzbırak
WEDNESDAY	10:00-10:50		
14-Feb-23	11:00-12:50	**ICP MIDTERM EXAM**	
TUESDAY			
16-Feb-23	14:00-14:50	History Taking as a Clinical Skill	Güldal İzbırak
THURSDAY	15:00-15:50		
28-Feb-23	09:00-12:50	Patient-Doctor Communication Skills General Approach GROUP A	Özlem Tanrıöver / Arzu Akalın
TUESDAY			
7-Mar-23	09:00-12:50	Patient-Doctor Communication Skills General Approach GROUP B	Özlem Tanrıöver / Arzu Akalın
TUESDAY			
13-Mar-23	09:00-12:50	Patient-Doctor Communication Skills General Approach Group C	Arzu Akalın / ÖzlemTanrıöver
MONDAY			
21-Mar-23	09:00-12:50	Patient-Doctor Communication Skills General Approach Group D	Arzu Akalın / ÖzlemTanrıöver

TUESDAY			
22-Mar-23	14:00-17:50	Patient-Doctor Communication Skills General Approach Group E	Arzu Akalın / ÖzlemTanrıöver
WEDNESDAY			
28-Mar-23	09:00-12:50	Patient-Doctor Communication Skills Using SPs Group A	Güldal İzbırak / Özlem Tanrıöver/ Arzu Akalın / Serdar Özdemir
TUESDAY			
4-Apr-23	09:00-12:50	Patient-Doctor Communication Skills General Approach Group B SPS	Güldal İzbırak & Özlem Tanrıöver &Arzu Akalın & Serdar Özdemir
TUESDAY			
5-Apr-23	14:00-16:50	Patient-Doctor Communication Skills General Approach Group C SPS	Güldal İzbırak / Özlem Tanrıöver/ Arzu Akalın / Serdar Özdemir
TUESDAY			
11-Apr-23	09:00-12:50	Patient-Doctor Communication Skills General Approach Group D SPS	Güldal İzbırak / Özlem Tanrıöver/ Arzu Akalın / Serdar Özdemir
TUESDAY			
2-May-23	09:00-12:50	Patient-Doctor Communication Skills General Approach Group E SPS	Güldal İzbırak / Özlem Tanrıöver/ Arzu Akalın / Serdar Özdemir
TUESDAY			
9-May-23	09:00-12:50	Vital Signs GROUP A	Cem Şimşek / Serdar Özdemir
TUESDAY			
16-May-23	10:00-12:50	Vital Signs GROUP B	Cem Şimşek / Serdar Özdemir
TUESDAY			
23-May-23	14:00-16:50	Vital Signs GROUP C	Gökhan Gençer / Serdar Özdemir
TUESDAY			

29-May-23 **MONDAY**	14:00-16:50	Vital Signs GROUP D	Gökhan Gençer / Serdar Özdemir
30-May-23 **TUESDAY**	10.00-11.50	Vital Signs GROUP E	Gökhan Gençer / Serdar Özdemir
Beginning of Course September 27, 2022 Tuesday End of Course May 30, 2023 Tuesday Midterm Exam February 14, 2023 Tuesday Make-up Exam June 2, 2023 Friday Final Exam June 15-16, 2023 Thursday-Friday Incomplete Exam July 19, 2023 Wednesday			
		PRACTICAL LECTURE	
		1. THEORETICAL LECTURE	

AIM and LEARNING OBJECTIVES of SCIENTIFIC RESEARCH and PROJECT I

AIM

The aim of the Scientific Research And Project – I (SRP) is to equip first year medical students to convey basic knowledge on scientific research and scientific methodology, to equip them with skills of searching scientific literature, to convey scientific study design and types of scientific research and basic knowledge of writing scientific projects.

LEARNING OBJECTIVES

At the end of this phase, student should be able to:

KNOWLEDGE

1.0 explain basics of scientific research and scientific methodology
2.0 explain scientific plagiarism
3.0 describe scientific study design and types of scientific research
4.0 list the parts of an article (aim, hypothesis, abstract, introduction, methods, results, discussion, conclusions, references) and describe the methodology
5.0 describe how to prepare a project application
6.0 list funding options for scientific research

SKILLS

1.0 use literature science engines.
2.0 apply critical reading of scientific article
3.0 write a scientific review article

ASSESSMENT PROCEDURE:

For the assessments of the medical students for the SRP, it is calculated out of 100 points; 50% will be graded on Assignment 1 (short review article) at the end of the first semester (**February 10, 2023**) and 50% will be graded on Assignment 2 (abstract) at the end of the second semester **(May 5, 2023).**

The constraints of the Assignments will be discussed in Small Group Study hours. During these sessions students can discuss related issues and ask questions.

The Assignments should be loaded to the **TURNITIN** program before due dates. (https://www.turnitin.com)
Similarity score of 30% or more will not be graded.

The Scientific Research and Projects I has 3% contribution to Term Score (TS).

Please note that it is mandatory to attend Lectures and Small Group Study hours in the assigned group hours. A list of groups will be published during the first week of the term. Students are expected to conform to dat es for turnitin uploads, there will be no acceptance of Assignments after the pre scheduled dates.

ASSESSMENT PROCEDURE

The Assessment Procedure of the Phase I covers exams and scores and their abbreviations that are shown below.

1.0. Exams:

- Committee Exam (CE)
- Mid-term Exam (MTE)
- Final Exam (FE)
- Incomplete Exam (ICE)
- Make-up Exam (MUE)
- Progress Test (PT)

2.0. Scores*:

- Committee Score (CS)
- Committees Mean Score (CMS)
- Introduction to Clinical Practice Score (ICPS)
- Anatomical Drawing Score (ADS)
- Common Compulsory Course Score (CCCSs)
- Elective Course Score (ECSs)
- Scientific Research and Project Score (SRPS)
- Final Exam Score (FES)
- Incomplete Exam Score (ICES)
- Term Score (TS)

* All scores have a range of 0-100 points.

Assessment approaches, assessment methods and assessment tools, that related with the exam and score types, are shown below table.

Assessment Approaches	Assessment Methods	Question Types / Assessment Tools	Exams	Derived Scores
Knowledge-based Assessment	WE: Written Examination	MCQ: Multiple Choice Questions	CE, MTE, FE, ICE,PT	CS, ICPS, FES, ICES, ECSs, SRPS
		SbMCQ: Scenario-based MCQs	CE, MTE, FE, ICE, PT	CS, ICPS, FES, ICES
		EQ: Essay Questions	CE	CS
		FSAQ: Fill-in-the-Blank Short Answer Questions	MUE	CS
Competency–based Assessment	OSCE: Objective Structured Clinical Examination	OSCE Checklist		ICPS
	OSPE: Objective Structured Practical Examination	OSPE Checklist		CS
	LPE: Laboratory Practical Exam	LPE Checklist		CS
Performance–based Assessment	PWPE: Review Writing and Presenting Evaluation	PWPE Checklist		ECSs

	AID: Anatomical Images Drawing			ADS
	PBL-P: Evaluation of PBL Student's Performance	PBL Student Evaluation Form		CS

Exams Information (MED 104, MED 102)	
CE	For the proportional correspondence of individual learning objectives, please see the committee's assessment matrix table/page.
MTE$_{ICP}$	MTE$_{ICP}$ consists of MCQs to assess the theoretical part of the ICP program.
FE	FE consists of 200 MCQs. For the proportional contribution of each committee, please see the committee's question distribution table/page.
ICE	ICE consists of 200 MCQs. For the proportional contribution of each committee, please see the committee's question distribution table/page.
MUE$_{IBS}$	MUE will be held only twice in a term. MUE consists of FSAQs. The number of FSAQs is half of the relevant exam. MUE content will be developed by the coordination committees.

Scores Information (MED 104,MED 102,MED 103, HUM 103, TKL 201, TKL 202, HTR 301, HTR 302, Free Elective Courses)	
CS	The committee score is based on various question types/numbers and/or assessment tools (MCQ, SbMCQ or Checklists). Please see the committee's assessment matrix table/page for the specifications. Contribution of student's performance during PBL sessions to CSs of Committee II, III, IV and V is **5%.**
CMS	= Average of CSs
ICPS	= (40% MTE$_{ICP}$) + (60% Final OSCE)
ADS	= (70% AID$_{AD}$) + (30% FE$_{AD}$)
CCCSs	= Score information will be announced by Course Coordinator.
ECSs	= Score information is shown pages of Elective Courses in the APB.
SRPS	= Score information is shown at the assessment page of Scientific Research and Projects
FES	= Final Exam Score
ICES	= Incomplete Exam Score
TS *for students, who are exempted from FE*	= 97% of CMS + 3% of SRPS
TS *for students, who are not exempted from FE*	= 97% of (60% of CMS + 40% of FES or ICES) + 3% of SRPS

Pass or Fail Calculations of the Courses
Basic Medical Sciences I (MED 104)
Pass; *TS ≥ 60* ***Fail;*** *FES* ***< 50*** *(barrier point), ICES* ***< 50*** *(barrier point), or/and TS* ***< 60*** *The student is exempted from FE, if the CMS is ≥ 80 and all CSs are ≥ 60* *The FE and ICE barrier point is not applied to the students whose all CSs are ≥ 60*
Introduction to Clinical Practice I (MED 102)
Pass; *ICPS ≥ 60* ***Fail;*** *ICPS* ***< 60***
Anatomical Drawing (MED 103)
Pass; *ADS ≥ 60* ***Fail;*** *ADS* ***< 60***
Common Compulsory Courses **(HUM 103, TKL 201, TKL 202, HTR 301, HTR 302, AFYA 101, AFYA 102)**
Pass; *CCCSs ≥ 50* ***Fail;*** *CCCSs* ***< 50***
Free Elective Courses **(MED 611, MED 612, MED 613, MED 614, MED615, MED 616, MED 619, MED 621, MED 622, MED 623, MED 627, MED 628, MED 629, MED 630, MED 631, MED 632, MED 633, MED 634, MED 635)**

The Assessment Procedure of the Phase I will be announced and explained in the introductory session at the beginning of the academic year

Definitions of the Assessment Methods and Question Types

MCQ consists of a question, followed by five plausible alternative responses from which the student has to select the correct one.

SbMCQ is a kind of multiple choice question. That they test knowledge in a far more applied, in depth, sense. SbMCQ is based on a clinical, research or daily life scenario.

EQ is a written examination that requires an answer in a sentence, paragraph, or short composition.

FSAQ, Fill-in-the-Blank Short Answer Questions are typically composed of a brief prompt that demands a written answer that varies in length from one or two words to a sentence.

OE is a practice in many schools of medicine and disciplines, where an examiner poses questions to the student in spoken form. The student has to answer the question in such a way as to demonstrate sufficient knowledge of the subject in order to pass the exam.

OSCE describes a form of competency-based assessment used to measure a student's clinical competence. During an OSCE, students are observed and evaluated as they go through a series of stations in which they perform professional skills on mannequins or interview, examine and treat simulated patients who present with some type of medical problem.

OSPE is used as an objective instrument for assessment of laboratory exercises in preclinical sciences. It was adapted from the objective structured clinical examination (OSCE). OSPE is implemented in similar conditions with OSCE.

LPE is included as it has been a traditional assessment format in many school of medicine – particularly in disciplines such as anatomy, physiology, pathology and biology. Various local terms are used to describe this Assessment method including 'Spot', 'Steeplechase', 'Timed stations' or 'Bellringer'.

Grades

A letter grade is given to the students as a success grade, from the numerical values of the grades given by the relevant teaching staff for each course they take, taking into account the practice, laboratory and similar studies in the semester and examinations and academic activities.
Grades and Letter grades are shown for MED coded courses* in the following table:

Grades	**Letter Grades**
90-100	AA
80-89	BA
70-79	BB
65-69	CB
60-64	CC
59 or less	FF (Fail in the context of "Pass or Fail Calculations of the Courses" table pp.41)
0	FA (Fail due to non attendance to the courses)

* Please see https://med.yeditepe.edu.tr/tr/mezuniyet-oncesi-tip-egitimi for more information.

EXAM RULES

- **Seating-** Students will be seated by the exam observers or proctors. Students are not allowed to change their seats without permission.
- **Electronics** – During examinations or tests, students are prohibited from using electronic devices or any other means of communication and recording that have not been approved beforehand. All electronic devices are prohibited. Anyone who fails to comply with these regulations may be charged with academic fraud.
- **Absence** – No additional time will be given to students who are absent for part of the exam, regardless of the reason for their absence.
- **Scratch Paper** – Students are not allowed to bring scratch paper into the exam room.
- **Meaning of Questions** – Students may not consult the supervisor as to the meaning of any question.
- **Signature** – Students must sign their multiple-choice answer sheets and/or written-answer sheets.

- **Other activities requiring disciplinary action**-
    - Students must not give or receive assistance of any kind during the exam.
    - Gaining access to exam questions before the exam.
    - Using an unauthorized calculator or other mechanical aid that is not permitted.
    - Looking in the exam book before the signal to begin is given.
    - Marking or otherwise writing on the exam book or answer sheet before the signal to begin is given.
    - Making any changes, additions, deletions or other marking, erasing or writing on the exam book or answer sheet after the time for the exam has expired.
    - Having access to or consulting notes or books during the exam.
    - Looking at or copying from another student's paper.
    - Enabling another student to copy from one's paper.
    - Talking or otherwise communicating with another student during the exam or during the read through period.
    - Disturbing other students during the exam.
    - Consulting other persons or resources outside the exam room during the exam.
    - Copying questions or answers either on paper or with an electronic device to take from the exam room.
    - Taking an exam book or other exam materials from the exam room.
    - Taking an exam in place of another student.
    - Arranging to have another person take an exam for the student.
    - Disobeying to the conduct of supervisor during the exam.
    - Disclosing the contents of an exam to any other person.
    - Failing to remain in the exam room for a given period of time by the supervisors.
    - Failing to follow other exam instructions.

Those students found to have committed academic misconduct will face administrative sanctions imposed by the administration of Yeditepe University Faculty of Medicine according to the disciplinary rules and regulations of the Turkish Higher Education Council (YÖK) for students (published in the Official Journal on August 18th, 2012). The standard administrative sanctions include, the creation of a disciplinary record which will be checked by graduate and professional life, result in grade "F" on the assignment, exams or tests or in the class. Students may face suspension and dismissal from the Yeditepe University **for up to one school year**. In addition, student may loose any academic and non academic scholarships given by the Yeditepe University **for up to four years**. The appropriate sanctions are determined by the Yeditepe University administration according to egregiousness of the Policy violation.

PROGRESS TEST

Progress test (PT) is used to assess students on topics from all medical disciplines. As an assessment tool in medical education, the PT offers some distinctive characteristics that set it apart from other types of assessment. It is administered to all students in the medical program at the same time and at regular intervals (usually twice a year) throughout the entire academic program. The test samples the complete knowledge domain expected that a student to have on graduation, regardless of which grade the student is at. The scores provide beginning-to-end and curriculum-independent assessments of the objectives for the entire medical program. The purpose of the PT as a formative or summative test is variably used across institutions.

In YUTF, PT is applied according to the following principles and rules.

Purpose

- In YUTF, PT is used for formative purposes.

Obligation

- PT is mandatory for all students.

Frequency and Timing

- PT is performed twice a year.
- Each student will have received a total of 10 PTs by the end of the Phase 5.
- In a year; the first PT is done in the middle and the second PT is done at the end of the term.
- PT dates are announced by the Phase Coordinator.

Implementation

- PT is performed online via EYS.

Content

- PT consists of 200 multiple choice questions.
- 100 of them are related to the preclinical period and the rest 100 are related to the clinical period.
- The ratio of the questions to be asked according to the disciplines is announced to the students before PT.
- All students from 1st to 5th Phase are to answer the same questions.

Feedback

- A report is sent to each student after each PT.
- The report includes how many questions the student answered correctly in each discipline and their progress against the previous PT.

Benefits

- PT gives students the opportunity to see their progress throughout their medical education.
- PT provides opportunities for students to prepare for other exams (Committee, Clerkship, TUS, USMLE, etc.).
- As questions are often enhanced with a real life problem, PT contributes to students' problem-solving skills. This question type is preferred in TUS, especially USMLE and other similar exams.

AIM OF FREE ELECTIVE COURSES

Free elective courses aim to add complementary educational experiences to the medical school curriculum in order to improve comprehension of biopsychosocial approach of medical students, besides offering an opportunity to extend knowledge of interest in specific domains.

The following courses (2 ECTS credits each) will be offered in Spring semester. Each student has to choose one of these elective courses. The selection and enrollment procedure will be announced by the phase coordinator.

FREE ELECTIVE COURSES

Code	Subject		
MED 611	**Medical Anthropology**		
Goals	This course aims to provide, different perspectives of medical issues according to anthropological holistic approach for medical students. To present how social science interprets concepts of health, sickness, illness and disease. To show how culture bound symptoms can vary from culture to culture. To discuss all health problems are universal or cultural and how anthropology describes medical phenomenon by theoretically and methodologically.		
Content	To explain that what is anthropology? What is medical anthropology? What is the relationships between social science and medical? Why we need to be explain some concepts according to perspectives of medical anthropology? The meaning of symptoms: cultural bound symptoms, the personal and social meaning of illness, the stigma and shame of illness, What is the positioning of medical doctors for patients and caregivers; Doctor-Patient relations, patients associations, Biological Citizenship, Medicalized Selves, Biopolitics.		
Course Learning Outcomes	At the end of this course, the student should be able to • emphasize cultural patterns of health, • investigate how human behavior that lives in a society is affected by own cultural health patterns, • discuss case studies about how cultural phenomenon affects human and public health, • understand importance of health that is constructed within culture structure by human society, • examine universal definition of health “state of complete physical, mental and social well-being” culturally, • realize interaction between items of cultural system and health system basically; get into the level of knowledge, skills and attitudes		
Assessment		**NUMBER**	**PERCENTAGE**
	Assignments	1	100
	Total	1	**100**

Code	Subject		
MED 612	**Creative Drama**		
Goals	The aim of this course is the development of independence, creativity, self-control and problem-solving potential and the development of communication skills of medical students by using drama and creativity through improvisation of exercises		
Content	Discovering, learning and teaching approaches that are student-centered in a curiosity focused setting with various cognitive and active learning styles.		
Course Learning Outcomes	At the end of this course, the student should be able to • show drama skills in vocational areas benefiting from access to creativity, collaboration and empathywhich are the ways of learning through play and improvisation.		
Assessment		**NUMBER**	**PERCENTAGE**
	Assignments	1	50
	Final Examination	1	50
	Total		**100**

Code	Subject		
MED 613	**Medical Humanities**		
Goals	This course aims to offer a wide variety of subjects related with art, history, cultural values, social movements, philosophy and many other areas. Main targets of this course are to improve Professionalism and Communication Skills and to support the students to develop an understanding about human and his interaction with universe.		
Content	Main concepts of professionalism such as altruism, accountability, excellence, duty, honor and integrit y, respect for others and communication skills will be covered through the lectures of history of medicine in an anthropological concept, medicine in literature and visual arts, and cinemeducation.		
Course Learning Outcomes	At the end of this course, the student should be able to • gain an understanding of the history of medicine as one of social and cultural transformation in the conception of professionalism, disease and what constitutes illness and health through the centuries, • develop the skills to write an essayusing primary source documents in the context of the history of medicine, • gain view of different reflections of medicine in literature and visual arts, • develop a point of view to use literature and visual arts as an imagination instrument of comp assion, to tolerate ambiguity, to dwell in paradox, to consider multiple points of view, • develop better observational and interpretive skills, by using the power of visual arts to elicit an emotional response in the observer, • gain understanding about the m ain values and various dimensions of professionalism. • gain insight about his/her own values and develop humanistic values, • develop a deeper understanding of human being in various contexts, • gain understanding about the various factors which influence health in individual and community level, • gain understanding to use films as a comprehensive guide in medical practice, • reflect through films to improve their cognitive and emotional awareness.		
Assessment		**NUMBER**	**PERCENTAGE**
	Assignments	1	50
	Final Examination	1	50
	Total		**100**

Code	Subject		
MED 614	**Personal Trademark Development**		
Goals	The aim of this course is to equip the students with skills in creating personal image for successful business life and with appropriate behavior in social platforms.		
Content	Business Etiquette creation techniques and personal image methodologies with case studies.		
Course Learning Outcomes	At the end of this course, the student should be able to • create personal brand for successful business life, • use behavioral codes for business etiquette.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	3	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostlybased on case studies)	1	40

	Total		**100**

Code	**Subject**		
MED 615	**Innovation Management**		
Goals	The aim of this course is to convey to the students knowledge on innovative approaches for visionary life, describe the philosophyof futurism.		
Content	Strategies for futurism and applied case studies for personal innovation.		
Course Learning Outcomes	At the end of this course, the student should be able to • use futuristic strategies to create innovative approaches, • use innovative and creative thinking techniques in professional life.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	5	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total	8	**100**

Code	**Subject**		
MED 616	**Medical Management and New Services Design Skills**		
Goals	The aim of this course is to develop leadership skills to manage a team and organizational skills in the case of emergency and lack of crew. Moreover, empathy skills will be developed to create better relationship with the patients, coworkers and customers.		
Content	Leadership Styles, Skills needed in Med, Strategies for New Generation Leadership, Empathy Techniques, Problem Solving with Empathy, and Conciliation with Empathy.		
Course Learning Outcomes	At the end of this course, the student should be able to • develop leadership skills to manage teams, • use empathytechniques for conciliation with their patients and co-workers.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostlybased on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	4	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostlybased on case studies)	1	40
	Total		**100**

Code	Subject		
MED 619	**Entrepreneurship and Storytelling Techniques for Business Purposes**		
Goals	This course aims to equip students with storytelling techniques to make smart decisions, communicate better, think creatively and use this modern technique to manage their professional relations.		
Content	Strategies for storytelling techniques and applications.		
Course Learning Outcomes	At the end of this course, the student should be able to • use storytelling techniques in workplace to make decisions, communicate better and think creatively.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostlybased on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	5	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostlybased on case studies)	1	40
	Total		100

Code	Subject		
MED 620	**Art, Culture and Life Styles**		
Goals	Healthcare members will have high level social status for their business life; and will join several international conferences. This course aims to develop their social and intellectual skills to make them global citizens with art, culture, fashion and life style knowledge.		
Content	Life Style Coaching for participants, Cultural Festivals Through Europe, Art Exhibitions and Movements, Sportive Life Coaching.		
Course Learning Outcomes	At the end of this course, the student should be able to • develop intellectual wealth and cultural knowledge, • change their life styles for better perspective, • increase qualityof life, • establish work-life balance.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	25
	Assignments (Homework)	1	25
	Evaluation of Group Presentations	1	5
	Final Exam	1	45
	Total		**100**

Code	Subject		
MED 621	**Epidemiological Research and Evidence Based Medicine**		
Goals	The aim is to provide understanding of epidemiological language and terminology by reading, examining and discussing various types of epidemiological research papers and to develop the desire and enthusiasm for epidemiological studies.		
Content	Different sessions for each type of epidemiological research will be held. The selected research types are case report, cross -sectional, case- control, cohort study, and randomized controlled trial.		
Course Learning Outcomes	At the end of this course, the student should be able to • comprehend various types of epidemiological research, • explain basic epidemiological terminology.		
Assessment		**NUMBER**	**PERCENTAGE**
	Group work performance		50
	Presentations		50
	Total		**100**

Code	Subject		
MED 622	**Application of Economics in Health Care**		
Goals	This course aims to teach the essentials of economics and its' core concepts' relevance with health -care.		
Content	Tools and concepts of traditional Microeconomics Theory, health production function, cost & benefit analysis, demand for health insurance and health care markets.		
Course Learning Outcomes	At the end of this course, the student should be able to • explain the applications of micro-economic theories in health related areas, • discuss the causes of market failure, • list the factors effecting the demand for health, • explain health insurance supplyand demand, • analyse how health care market operates.		
Assessment		**NUMBER**	**PERCENTAGE**
	Mid-terms	1	80
	Quizzes, Homeworks	5	5
	Attendance	14	15
		Total	100
	Contribution of Final Examination to Overall Grade		45
	Contribution of In-Term Studies to Overall Grade		55
		Total	100

Code	Subject		
MED 623	**Visual Presentation in Medicine**		
Goals	This course aims to teach to design visual aids that are to be used in medical case presentations in computerized systems with Adobe CS Photoshop and Powerpoint programs.		
Content	Understanding of verbal & technological presentation methods/tools to be used in medical case presentations. Computerized design tools like Adobe CS Photoshop and PowerPoint will be taught in computer labs to participants.		
Course Learning Outcomes	At the end of this course, the student should be able to • recognize and applies main design principles, • design visual materials, • use Adobe CS Photoshop and PowerPoint in basic level, • manage the presentation program PowerPoint, • perform visual designs and presents projects using these programs, • criticize the images used in the media.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	20
	Presentation	2	40
	Project	1	40
	Final EXAM		
		Total	100
	Contribution of Final Examination to Overall Grade		60
	Contribution of In-Term Studies to Overall Grade		40
		Total	100

Code	Subject		
MED 627	**Presentation of Medicine on Media**		
Goals	This course aims to teach deep understanding to approaches & visual methods/tools available as community communication media in conveying medical knowledge. To analyze technical features and to develop an understanding of aesthetics behind. To develop skil ls in conveying messages presented via media tools.		
Content	Sensual and perceptual theories of visual communication. Analysis and reading the meaning of the images presented in the media as a PR tool.		
Course Learning Outcomes	At the end of this course, the student should be able to • recognize the meaning of the visual literacy as intellectual property, • describe the physical features of the light and theory of vision, • analyze the images with the help of sensual and perceptual theories such as Gestalt, Constructivism, Semiologyand Cognitive Approach, • recognize the differences between advertising, journalism and public relations, • describe the historical and cultural stereotypes used in the media, • interpret images in the media (such as typography, graphic design, infographics, photography, TV, computer, internet) in technical, historical, cultural, ethical and critical aspects.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	70
	Homework	1	30
		Total	100
	Contribution of Final Examination to Overall Grade		60
	Contribution of In-Term Studies to Overall Grade		40
		Total	100

Code	Subject
MED 628	**Healthy Living: The Milestones of the Life for Performance Management**
Goals	This course aims to support fitness practices & dietary habits of healthy life style for medical students. To introduce techniques for reducing stress with healthy living habits. To highlight the importance of superior physical and mental health status for a better job performance.
Content	In the content of this course; understanding physiologyof the physical activities, risks and benefits of the regular physical activities, using fitness training as a treatment technique, effects of physical activities to reduce stress, the relation between dietary habits and health will have quite importance.
Course Learning Outcomes	At the end of this course, the student should be able to • explain main exercise physiology, • define main fitness terms, • analyze main risks and benefits of exercising, • relate health and eating habits, • perform main fitness training techniques, • manage the basic exercises necessary for healthy life, • perform physical techniques which are frequently used in stress management, • explain the relationship between health and nutrition, • describe the principles of healthyeating, • recognize exercise as a treatment method for common diseases in the community.

Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Project	1	25
	Homework	1	25
	Final Project	1	50
		Total	100
	Contribution of Final Examination to Overall Grade		50
	Contribution of In-Term Studies to Overall Grade		50
		Total	100

Code	Subject
MED 629	**Music and Medicine**
Goals	This course aims to convey the past and current uses and utilities of music in medicine.
Content	The connection of music and medicine throughout the historical development of antiquity and Middle Ages up until today. The place of music in medical practice after the transformations in the Age of Enlightenment and beyond.
Course Learning Outcomes	At the end of this course, the student should be able to • explain the uses of medicine in the past and present, • describe the uses of music in clinical conditions, and before and after surgical treatment, • explain the effects of music before and after surgery, • describe the types of music used in music therapy.

Assessment		**NUMBER**	**PERCENTAGE**
	Midterm	1	25
	Assignments (Homework)	1	25
	Final Exam		50
		Total	100
	Contribution of Final Examination to Overall Grade		50

	Contribution of In-Term Studies to Overall Grade		50
		Total	100

Code	Subject
MED 630	**Health Law**
Goals	The aim of the course is that students obtain a legal rationale, take ethical decisions from a legal perspective, act in a respectful way to patients' rights, legal risks and responsibilities.
Content	The basic concepts of law will be introduced with a view towards health law. The legal nature of medical interventions, concepts of malpractice and complication will be explained. The fundamentals and consequences of legal and criminal liabilitywill be emphasized and medical interventions showing ethical, and legal characteristics will be evaluated from a legal point of view.
Course Learning Outcomes	At the end of this course, the student should be able to • analyze legislature and by-laws related to health law, • distinguish branches and consequences of legal responsibility, • in taking decisions about patients, help them to make their own decisions in a proper way by respecting their right to self-determination and their privacy, • take ethical decisions from a perspective of patients' rights and legal responsibility, • identify legal risks in the developing areas of health law.

		NUMBER	PERCENTAGE
Assessment	Assignment / presentation	1	50
	Final EXAM	1	50
		Total	100
	Contribution of Final Examination to Overall Grade		50
	Contribution of In-Term Studies to Overall Grade		50
		Total	100

Code	Subject
MED 631	**Creative Drama II**
Goals	This course aims the development of body awareness, improvement of communication skills of students by creating an atmosphere where the students can explore the potential of their emotional intelligence.
Content	In this class, the students will be searching for their abilities for self-representation and being visible in society and going into an active learning process byexperiencing image theatre, invisible theatre, newspaper theatre and forum theatre techniques
Course Learning Outcomes	At the end of this course, the student should be able to • build supportive relationships in group by improving personal cooperating skills, • recognize personal awareness, • explain and review the schemes of personal attitude, thought and feeling by pl aying games and different roles, • improve critical and creative ways of thinking skills, also improve skills for life-long learning which will be useful for professional life as well as personal life , • explore being visible and expressing oneself in front of spectators using games and storytelling techniques.

		NUMBER	PERCENTAGE
Assessment	Midterm	1	25
	Performance evaluation	5	25
	Final EXAM		50
		Total	100
	Contribution of Final Examination to Overall Grade		50

	Contribution of In-Term Studies to Overall Grade		50
		Total	100

Code	Subject		
MED 632	**Music Appreciation**		
Goals	This course aims to clarify the structures underlying western classical music in order to understand and appreciate it consciously while considering a historical perspective. Furthermore it will enable the student to understand that it is the foundation of every genre (pop, rap, rock etc.) in western music culture.		
Content	The evolution of music starting as of medieval times, the birth of new musical rules and genres in the Renaissance and the Age of Enlightenment which in turn redefines the different usages of music and lies the foundation of modern compositional rules. The reflection of those in music genres of today.		
Course Learning Outcomes	At the end of this course, the student should be able to • define music's founding elements, • explain the structural evolution of music within time, • explain what the brain perceives under different conditions.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm	1	25
	Assignments	1	25
	Final Examination	1	50
	Total		**100**

Code	Subject		
MED 633	**Communication with Hearing Impaired Patients in Turkish Sign Language**		
Goals	The aim of this course is to convey to the students sign language skills and basic vocabulary in order to enable them to communicate with hearing impaired patients.		
Content	Short history of sign language, basic vocabulary, words, terminology and simple sentence building skills regarding patient doctor interview.		
Course Learning Outcomes	At the end of this course, the student should be able to • tell the history of sign language, • show the basic words in sign language, • conduct patient doctor interview in sign language, • understand the health problem of the hearing impaired patient, • give information about the treatment in sign language, • build sentences using basic vocabulary in sign language, • develop personal characteristics such as compassion, tolerance for diversity and open mindedness • improve body language, • gain understanding about the various factors which influence health in individual and community level.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm	1	40
	Final Examination	1	60
	Total		**100**

Code	Subject
MED 634	**Case Based Forensic Sciences**
Goals	This course aims to increase the awareness of students about forensic cases bypresenting them as real case presentations through forensic sciences, where some of the patients that they will examine routinely in their professional lives are forensic cases.
Content	In each lecture, brief introduction information about one of the basic forensic sciences will be given, and with the help of this forensic science, how the case is elucidated and how the process is managed, will be explained in the lectures.

Course Learning Outcomes	At the end of this course, the student should be able to • give preliminary information about what the forensic sciences are, and their relationship with medicine and each other, • give examples an idea about the types of forensic cases they may encounter in their professional routine, • gain the awareness that every patient that they examine can turn into a forensic case, • explain the liabilityof healthcare professionals against forensic cases and what kind of problems both patients and healthcare professionals mayencounter if they are omitted, • give preliminary information about the manageme nt process of the forensic case, • explain the importance of the holistic approach in the management of forensic cases , • explain the importance of professionalization and coord ination in forensic science.

Assessment		**NUMBER**	**PERCENTAGE**
	Assignments	1	50
	Final EXAM	1	50
		Total	100
	Contribution of Final Examination to Overall Grade		50
	Contribution of In-Term Studies to Overall Grade		50
		Total	100

Code	**Subject**
MED 635	**Advanced Level Communication with Hearing Impaired Patients in Turkish Sign Language**
Goals	The aim of this course is to teach the students medical vocabulary in sign language and enable them to make connected sentences; to understand the complaints of hearing-impaired patients and to explain the treatment methods to the patients.
Content	Vocabulary related to medical terms; Practices in making connected, long sentences; investigating the complaints of the hearing impaired patient; basic patient doctor interview skills with hearing impaired patient; explaining the treatment to the patient.
Course Learning Outcomes	At the end of this course, the student should be able to • tell the sign language equivalents of health terms, • show the sign language equivalents of the names of the diseases, • investigate the patient's complaint in detail during patient doctor interview using sign language, • understand the details of patient's complaint in sign language, • explain the treatment for the health problem of hea ring impaired patient in more detail, • list the names of the departments at the hospital, • make advanced connected sentences in sign language, • be more beneficial to people with disabilities bybringing their sens itivity to a professional level, • translate the patient's problem in sign language to other doctors, • be equipped professionally when they want to conduct medical studies with hearing impaired participants.

Assessment		**NUMBER**	**PERCENTAGE**
	Midterm	1	40
	Final Examination	1	60
	Total		100

A SHORT GUIDE for STUDENTS to PROBLEM-BASED LEARNING (PBL)

In Phase I besides the lectures, Problem Based Learning Sessions are implemented in the education program.

The principal idea behind PBL is that the starting point for learning should be a problem, a query, or a puzzle that the learner wishes to solve.
PBL is a learning method where students perceive their knowledge gaps, decide on learning issues and achieve these, while working in small groups on a case to solve a patient's problems.
So, PBL starts with a clinical case of a patient. While working on the patient's problems you will identify your learning needs and study these. During this whole process you will work with a group of 8 -12 stude nts and a tutor.

How it works?
You will be presented with a patient case (scenario) that has some problems and will be asked to proceed according to the information and instructions that you will receive. You will not be informed about the topic of the case in advance but will face the problem when given to you in your first session- *just like a doctor does not know what patients he/she will see when starting the day*.
Scenarios will be given to you one page at a time. When you finish discussing a page you will be given the following page with additional information about the patient.
Each PBL case will be discussed over 3 sessions, 2 hours each. You will work in a group of 8 -12 students with a tutor. One student elected by the group will work as the "scribe"(person who will write the disc ussed topics on the board). The scribe may change at every session, by group decision.
Each group will be given the same scenario but will work independently from each other.
The tutor working with you will NOT TEACH you but will only guide to on this ex citing trip. He/she will ask you questions to guide you to the problems to be solved.
Your aim will be to find out the reasons, and in some cases, the solutions of the problems presented.
It is clear (and we know) that you do not have enough knowledge to understand and solve all the problems presented to you.
Here comes the aim of PBL: **you will thus recognize WHAT YOU DO NOT KNOW and WHAT YOU SHOULD LEARN.** In other words **you will identify your knowledge gaps and try to learn them** . These are called "**learning objectives**".

In order to facilitate and direct discussions and the learning process all relevant points should be written on the board by the scribe. The board should be used as below (with examples):

Problems	**Hypotheses**	**Additional (Required) information**	**Learning issues (Learning objectives)**
Example	***Example***	***Example***	***Example***
Fever *Cough* *Pallor*	*Throat infection* *Pneumonia* *Anemia*	*Throat examination* *Chest examination* *Chest X-ray* *Blood count*	*Causes of fever* *How is body temperature controlled?* *Anatomy of the throat* *Anatomy of lungs* *What is anemia?*

The patient's problems will be listed under the **"Problems**" column.
The possible causes/reasons/mechanisms of the patient's problems will be listed under "**Hypotheses**". You can suggest and write anything that comes to your mind- you will then try to find any facts or information that can support these hypotheses. Do not be shy to suggest anything. You will not be judged for those things that you suggest.
As you will not be provided with all information about the patient you will need more information (such as, the patient's fever, physical examination findings, laboratory data, etc.). You will thus ask the scribe to write down

these on the board under "**Required Information**" heading. This means information that you want to learn about this particular patient.

During the course of these discussions you will recognize that you do not know and thus need to study and learn some topics/issues, which are called "**learning objectives**". The learning objectives will be written on the fourth column under this heading. These are the topics that you will study until the next session and present by then.

This will lead you to the second stage of PBL: learning the facts that ***you*** have decided to. You will have to **find and reach the required learning resources** (textbooks, journal articles, reliable internet sources, etc.) and **study** these in your **independent study time** . You will be given a list of possible learning resources for every discipline but you can find other sources in addition to them. However, make sure that these are reliable sources - especially web sources need cautiousness.

When you meet with your group and tutor in your second (and third) session, you will be asked to summarize the previous session, list the learning objectives and then present the knowledge that you had learned.

In this way every group member (students) will study and learn the objectives and these will be discussed during the session. There may be disagreements among students for some information reached. The group will discuss and come to a conclusion about it. The tutor will guide and moderate the group through this process - BUT WILL NOT TEACH. **The tutor will <u>not be a resource person</u> but a faculty member who will facilitate your search for correct knowledge** . ***It is YOU who will reach and learn the required topics***- the topics that you have identified as your learning objectives or knowledge gaps.

The ultimate aim of a PBL case is NOT to diagnose the patient but to learn the topics that you discover that you do not know. Although the case is a clinical problem, at this stage of your studies, you will have to focus on basic sciences. In other words, you will need/want to learn basic science topics (anatomy, physiology, biochemistry, microbiology, etc.) related to the patient's problems. **So you will learn basic sciences starting from a clinical case and thus appreciate why and where basic sciences are necessary and relevant**.

Other benefits of PBL that you gain are to:

- learn "how to learn"
- develop lifelong learning skills
- improve your communications skills
- state and defend positions with evidence and sound argument
- become more flexible in processing information and meeting obligations
- practice skills that you will need after your education
- improve your information literacy

Assessment: Your participation and contributions to the sessions will be assessed by your tutor. This will NOT be an assessment of your knowledge but your participation in the sessions, taking part in discussions, suggesti ng hypotheses, contributions by making presentations, etc. The assessment form is given below. This will comprise 5 % of that committee score.

PBL ***First*** **Session** Flow
A. Introducing activity ***(For the first session of the term)***
B. Determination of group rules ***(For the first session of the term)*** ***(Group rules will be written on the Flipchart.)***
C. Introducing the PBL Student Assessment Form to students ***(For the first session of the term)*** ***(This form will be filled in electronically via EYS by the tutors after the second session of the scenario.)***
1.1. Review of the Group Rules ***(The group rules created in the first session of the term will be remembered.)***
1.2. Warmup game
1.3. Selecting the reader and writer ***(The reader's task is to read the scenario step by step, together with the questions on the box, to the group.)*** ***(The writer's task is to write the answers to all the questions in the scenario, especially! hypotheses and learning objectives on the flipchart.)***
1.4. Reading the scenario step by step ***(The tutors will distribute the student copies of the scenario that came out of the session envelope to the students.)*** ***(The next page will not be passed until the students have finished reading a page and answering the related questions.)***
1.5. Using Dorland's Medical Dictionary for unknown medical terms. ***(Printed Dorland's Medical Dictionary will be in the PBL room.)*** ***(Also, Electronic Dorland's Medical Dictionary can be accessed as; Yeditepe University Website → Academic Drop-Down Menu → Information Center Tab → Electronic Library Drop-Down Menu → Off-Campus Access Tab → OBS user Login with username and password → Finding Dorland's Medical Dictionary among resources)*** ***(Direct link → https://login.lproxy.yeditepe.edu.tr/login)***
1.6. Discussion ***(Writing the hypotheses on the Flipchart, bringing the prior knowledge into the learning environment, reviewing the hypotheses, etc.)***
1.7. The tutor asks questions that lead students to learning objectives during the discussion
1.8. Determination of learning objectives by students ***(The learning objectives determined by the student group will be written on the Flipchart by the writer.)***
1.9. Feedback (***Each group member's thoughts on him/herself, the group, the scenario, the tutor, the PBL flow, the environment, etc.)***
1.10. Attendance ***(Students will sign the student list on the session envelope.)***
PBL ***Second*** **Session** Flow

2.1. Warmup game
2.2. Discussion of the learning objectives obtained in the previous session ***(Reading the learning objectives on the Flipchart they were written in the previous session → putting the objectives in order for discussion → in-depth discussion of all objectives by the student group.)*** ***(Important note: The second session of the scenario will not proceed until the following requirements are met. For each learning objective; it should be discussed in depth, the students' work should be shared, these discussions should be supported by the flowcharts drawn on the flipchart, the discussion of the learning objectives should not be superficial.)***
2.3. Selecting the reader ***(The reader's task is to read the scenario step by step, together with the questions on the box, to the group.)***
2.4. Reading the scenario of the second session ***(The tutors will distribute the student copies of the scenario from the session envelope to the students.)***
2.5. Discussing the psychosocial dimension of the scenario
2.6. Feedback ***(Each group member's thoughts on him/herself, the group, the scenario, the tutor, the PBL flow, the environment, etc.)***
2.7. Attendance ***(Students will sign the student list on the session envelope.)***
2.8. After the session, the Tutor Evaluation Form is filled by the students on the EYS.

PBL STUDENT ASSESSMENT FORM*

Student Name	
Phase/Committee	
PBL Scenario Name	
Tutor Name	

INTERACTION WITH GROUP/PARTICIPATION TO GROUP	**Not observed**	**Poor**	**Fair**	**Average**	**Good**	**Excellent**	**Total Point of the Part**
	0	**1**	**2**	**3**	**4**	**5**	
• Starts discussion							
• Contributes w ith valid questions and ideas							
• Balances listening and speaking roles							
• Communicates effectively in group w ork							
GAINING KNOWLEDGE	**Not observed**	**Poor**	**Fair**	**Average**	**Good**	**Excellent**	**Total Point of the Part**

	0	1	2	3	4	5	
● Determines valid learning issues							
● Finds valid sources							
● Makes independent research on learning issues							
● Show s understanding of the concepts and relationships							
COMMUNICATION/SHARING KNOWLEDGE	**Not observed**	**Poor**	**Fair**	**Average**	**Good**	**Excellent**	**Total Point of the Part**
	0	**1**	**2**	**3**	**4**	**5**	
● Selects data valid for discussion and presentation							
● Expresses ideas and know ledge clearly and in an understandable w ay							
● Draw s figures, diagrams clearly and in an understandable w ay							
● Has alw ays some additional information or data to present w henever needed							
PROBLEM SOLVING AND CRITICAL THINKING	**Not observed**	**Poor**	**Fair**	**Average**	**Good**	**Excellent**	**Total Point of the Part**
	0	**1**	**2**	**3**	**4**	**5**	
● Generates hypotheses independently							
● Review s hypotheses critically							
● Integrates basic science and clinical concepts							
● Describes the difference between normal and pathological conditions							
PROFESSIONAL ATTITUDE	**Not observed**	**Poor**	**Fair**	**Average**	**Good**	**Excellent**	**Total Point of the Part**
	0	**1**	**2**	**3**	**4**	**5**	
● Is sensitive to psychosocial factors affecting patients							
● Treats all group members as colleagues							
● Accepts feedback properly							

• Provides proper feedback to group members							
Total Score of the Student →							

Student's attendance status for PBL sessions	**Session 1**	**Session 2**	**Session 3**
	Attend ( ) / Not attend ( )	Attend ( ) / Not attend ( )	Attend ( ) / Not attend ( )

If you have any other interpretation, or thought about the student's performance in PBL sessions that you want to say PBL Coordinators, please write here. →	

Signature of the tutor	

*Assessment formshould be filled in at the end of scenario (i.e. following the completion of two consecutive sessions).

AIM and LEARNING OBJECTIVES of ANATOMICAL DRAWING (MED 103)

AIM

1.0 to convey basic knowledge on anatomical drawing rules and drawing technique.
2.0 to equip with skills of three dimensional interpretation of bones and muscles in the human body.
3.0 to equip with skills of drawing bones and muscles in the human body.
4.0 to equip them with skills of visually explaining clinical conditions to patients.

LEARNING OBJECTIVES

At the end of this course, student should be able to:

KNOWLEDGE

1.0 list rules associated with anatomical drawing.
2.0 represent a real axonometrical view under 120^0 angle based on frontal, horizontal and profile views of the human body.

SKILLS

1.0 draw frontal, horizontal and profile views of muscles in the human body.
2.0 draw frontal, horizontal and profile views of bones in the human body.
3.0 draw visually clinical conditions to patients.

ASSESSMENT PROCEDURE:

For the assessments of the medical students for the anatomical drawing class, it is calculated out of 100 points; 70 points of which comes from the 10 different drawing home works (each has equal value) and 30 points comes from the theoretical exams.

TURKISH LANGUAGE and CULTURE FOR FOREIGNERS I-II (AFYA 101-102)

Code	Subject		
AFYA 101	**Turkish Language and Culture for Foreigners 1**		
Goals	To provide the learners of Turkish Language with fundamentals of Turkish phonology , the basic grammatical structure of Turkish, certain skills necessary for basic communication, and the opportunity to explore Turkish culture		
Content	Practical knowledge of communication skills will be provided to the learners through communicative and authentic activities and materials reflecting the culture and the daily use of the language.		
Course Learning Outcomes	At the end of this course, the student should be able to ● To be able to learn and use basic grammatical structure of Turkish ● To be able to learn and use the fundamentals of Turkish phonology of Turkish ● To be able to improve basic communication skills. ● To be able to improve basic writing skills. ● To be able to improve basic reading skills.		
		NUMBER	**PERCENTAGE**
	Midterm	**1**	**20**
Assessment	Quiz	1	20
	Assignment	1	20
	Final	1	40
	Total		**100**

Code	Subject		
AFYA 102	**Turkish Language and Culture for Foreigners 2**		
Goals	To teach the basic grammatical structures of Turkish, tenses, suffixes and prefixes and certain language structures that will meet the needs of fluent communication and to provide an opportunity to get to know Turkish culture better.		
Content	Practical knowledge of communication skills will be provided to the learners through communicative and authentic activities and materials reflecting the culture and the daily use of the language.		
Course Learning Outcomes	At the end of this course, the student should be able to 1.0 To be able to learn and use basic grammatical structure of Turkish 2.0 To be able to learn and use the fundamentals of Turkish phonology of Turkish 3.0 To be able to improve basic communication skills. 4.0 To be able to improve basic writing skills. 5.0 To be able to improve basic reading skills.		
		NUMBER	**PERCENTAGE**
	Midterm	**1**	**20**
Assessment	Quiz	1	20
	Assignment	1	20

	Final	1	40
	Total		**100**

SPECIFIC SESSIONS / PANELS

Introductory Session

Aim of the session:

The session provides basic information about Yeditepe University Faculty of Medicine Undergraduate Medical Education Program (YUFM/UG-ME) and the educational phase relevant to the students. This session orients the students to the program and the phase.

Objectives of the Session:

1. To provide basic information about the YUFM/UG-ME.
2. To provide basic information about the phase.
3. To provide essential information on social programs and facilities.

Rules of the Session:

1. The session will be held in two types, conducted by Phase Coordinator and Committee Coordinator, respectively.
2. The first type will be held once in the first week of the educational phase. The second type will be held at the beginning of each committee.
3. Students should attend the session.

Implementation of the Session:

In the first type, Phase Coordinator will present brief information on the following topics:

- Organizational Chart of Yeditepe Medical Faculty Undergraduate Program in Medicine (YUFM/UG-ME), Work Descriptions and Introduction of Committees/Members,
- Directives on YUFM/UG-ME,
- YMF-GPM Program Outcomes
- Learning Objectives of the Phase
- Academic Program of the Phase
- Teaching and Learning Methods
- Learning Environments and Sources/ Resources
- Attendance
- Elective Courses (only in Phase I, II and III)
- Assessment Procedure
- Grade Point Average, Cumulative Grade Point Average (GPA, cGPA) Calculation
- Pass/Fail Conditions
- Feedback of the Previous Year and Program Improvements
- Social Programs and Facilities

In the second type, Committee Coordinator will present brief information on the following topics:

- Learning Objectives of the Committee
- Academic Program of the Committee
- Teaching and Learning Methods
- Learning Environments and Sources/Resources, References
- Attendance
- Assessment Methods and Question Distribution Table
- Committee Score Calculation Method
- Pass/Fail Conditions
- Feedback of the Previous Year and Program Improvements
- Social Programs and Facilities

COMMITTEE EVALUATION SESSION

Aim of the Session:

The aim of the session is to evaluate the committee educational program, with all its components, by the students and the committee coordinators. This session will contribute to the improvement of the educational program in general by giving the opportunity to identify the strengths of the committee educational program and revealing the areas which need improvement.

Objectives of the Program Evaluation Session are to;

- establish a platform for oral feedbacks in addition to the systematically written feedback forms
- give the opportunity to the students and the coordinators to discuss the committee period face to face
- allow the students to review the committee exam questions together with faculty members.

Process:

The total duration of the session is 60 minutes and the session consists of two parts. The first part (30 minutes) is dedicated to oral feedback by the students. All of the oral feedback will be recorded and reported by the committee coordination team. In the second part (30 minutes) committee exam questions will be reviewed and discussed by students and faculty.

Rules of the Committee Evaluation Session :

1. The **Committee Evaluation Session** will be held on the last day of each committee after the committee exam.
2. Students are required to attend the session.
3. The Committee coordinator will lead the session.
4. The faculty members who had contributed questions in the committee exam should attend the session.
5. Students must comply with the feedback rules while giving verbal feedback and all participants shall abide by rules of professional ethics.

PROGRAM IMPROVEMENT SESSION

Aim:

The aim of this session is sharing the program improvements based on the evaluation of the educational program data, with the students and the faculty members.

Objectives:

1. To share the improvements within the educational program with the students and the faculty members.
2. To inform the students and the faculty members about the processes of the program improvement
3. To encourage student participation in the program improvement processes.

Rules:

1. Program improvement session will be implemented once a year. The implementation will be performed at the beginning of the spring semester.
2. Students are required to attend the session.
3. The phase coordinator will monitor the session. If necessary the dean, vice deans and heads of the educational boards will attend to the session.
4. All faculty members will be invited to the session.

Implementation:

Before the Session

1. Phase coordinator will report the results of the improvements of the educational program.
2. The program improvements report has three parts. The first part of the report includes improvements that have been completed, and those that are currently in progress. The second part of the report includes, improvement s that are planned in medium term, and the third part of the report includes, improvements that are planned in the long term.
3. The program improvements report also includes the program evaluation data (student feedbacks, faculty feedbacks, results of the educational boards meetings etc.) in use of improvements.

During the Session

4. The phase coordinator will present the program improvements report to the students and the faculty members.
5. Students can ask questions about, and discuss, the results of the program improvement.

Process: The total period of session is 30 minutes and has two parts. The first part (15 minutes) covers, presenting of the program improvement report. The second part (15 minutes) covers, students' questions and discussion.

After the Session

6. The program improvement brief will be published on the website of Yeditepe University Faculty of Medicine (http://med.yeditepe.edu.tr).

INDEPENDENT LEARNING

Description:

"Independent learning" is a process, a method and a philosophy of education in which a student acquires knowledge by his or her own efforts and develops the ability for inquiry and critical evaluation. It includes freedom of choice in determining one's learning objectives, within the limits of a given project or program and with the aid of a faculty adviser. It requires freedom of process to carry out the objectives, and it places increased educational responsibility on the student for the achievement of objectives and for the value of the goals (1).

Aim:

The aim of this instructional strategy is to develop the students' ability to learn individually, so they are prepared for the classroom lessons, lectures, laboratory experiences and clinical practices, exams, professional life and have the abilities needed for lifelong learning.

Objectives:

With this instructional strategy, students will develop;

- the skills that will help them to learn independently.
- self-discipline in their work habits.
- their evidence based research skills by using reliable resources.
- their teamwork skills by studying together.
- their clinical skills as self-directed working in the clinical skills laboratory.

Rules:

1. All of the students will define independent learning process according to the algorithm below.
2. All of the students will be required to fill out a form, which is a self-assessment form for independent learning (methodology: timing, sources, strategy, etc.).
3. The students' academic performance and independent learning methodology will be analyzed comparatively, and feed-back on further improvements will be provided.

What a student should do for learning independently?

1. **Analyzing:** First you will need to analyze carefully, what your problems and weaknesses are. For example, if you are studying anatomy, is your weak area broadly upper limb, lower limb, or what?
2. **Addressing:** Once you've decided your specific problems, you can list them. Which one needs to be addressed urgently? Work out your priorities. Whatever your subject area is, don't be afraid to return to the basics if necessary. It may give you more confidence in the long run to ensure you have a proper understanding of basic concepts and techniques.
3. **Accessing:** If you need reliable information, or if you need to read about a subject and put it into context, a textbook may be the best place to start. However, the Internet may be helpful if you need very up-to-date information, specific facts, or an image or video etc. If you need an academic research article, reports or case studies for your topic, then a database (Pubmed etc.) would be the best option.
4. **Timing:** In the weekly syllabus you will see, a specific time called "independent learning hour" for your independent work. In addition to these hours, the students should also have their own time schedule for their study time at home.
5. **Planning:** Your next step will be to work out a realistic study-plan for your work. What goals could you literally set for yourself? Don't make them too ambitious but set minor goals or targets that you know you will be able to achieve without having to spend a very long time working on them. How many hours will you need to achieve them? How will you know when you've achieved them?
6. **Recording:** When you work independently, it's a good idea to keep a written record of the work you've done. This can help with further planning and also give a sense of achievement as well as provide something to include in a progress file. As time goes by you may surprise yourself with what you've been able to achieve. This could motivate you to keep going, as could increase your confidence, and even improve your results
7. **Reflecting:** Reflecting on what you've done can help you decide whether the activity was really effective, whether an alternative approach might be better on another occasion, whether you spent the right amount of time and whether you have achieved the target you'd set yourself.

8. **Improving:** Once you've achieved the target, the process of planning can start again. Your needs and priorities may have changed, so think about them and then set yourself to another target.

Reminder: For further information about independent learning, please contact the Department of Medical Education.

Reference:

1. Candy, P. (1991) Self-direction for lifelong learning: a comprehensive guide to theory and practice. San Francisco: Jossey Bass.

For further reading useful resources to recommend to students:

- Burnapp, D. (2009). Getting Ahead as an International Student. London: Open University Press.
- Marshall, L. & Rowland, F. (1998) A Guide to learning independently. London: Open University Press.
- University of Southampton / UKCISA online resource 'Prepare for Success'

WEEKLY COURSE SCHEDULE and LOCATIONS

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-09:50	MED 104 (4E01)	MED 102**(CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)
10:00-10:50	MED 104 (4E01)	MED 102** (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)
11:00-11:50	MED 104 (4E01)	MED 102** (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)
12:00-12:50	MED 104 (4E01)	MED 102** (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)
13:00-13:50	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
14:00-14:50	HTR 301&302 (FALL&SPRING)	MED 103 (C937)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)
15:00-15:50	HTR 301&302 (FALL&SPRING)	MED 103 (C937)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)
16:00-16:50	TKL201 (FALL) &TKL202 (SPRING) AFYA 101 (FALL) & AFYA 102 (SPRING)	HUM 103 (FALL MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)
17:00-17:50	TKL201 (FALL) &TKL202 (SPRING) AFYA 101 (FALL) & AFYA 102 (SPRING)	HUM 103 (FALL MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)
18:00-19:00				AFYA 101 (FALL) & AFYA 102 (SPRING)	
19:00-20:00				AFYA 101 (FALL) & AFYA 102 (SPRING)	

COURSE CODES	COURSES and LOCATIONS
MED 104	Basic Medical Sciences (4E01) or Laboratories*
MED 102	Introduction to Clinical Practice I (CSL)** or (4E01)***
MED 103	Anatomical Drawing (C937)
TKL 201 & 202	Turkish Language & Literature
AFYA 101& 102	Turkish Language for International Students
HTR 301 & 302	Atatürk's Principles & History of Modern Turkey
HUM 103	Humanities
MED 611-635	Elective Courses will be announced later
PBL	Problem Based Learning
4E01	Faculty of Medicine Building , 4th Floor
C 937	Faculty of Medicine Building, 5th Floor

*MED 104 Laboratories will be in Faculty of Medicine Building, skill laboratories of related departments.
** MED 102 Practical Lectures will be in Faculty of Medicine Building, Clinical Skills Laboratory (CSL) (Base Floor)
***Theoretical lectures will be in Faculty of Medicine Building , 4th Floor 4E01 numbered classroom.

RECOMMENDED TEXTBOOKS

NO	DEPARTMENT	TEXTBOOK	AUTHOR	PUBLISHER
1	ANATOMY	Gray's Anatomy for Students	R.L. Drake et al	Churchill Livingstone
		Hollinshead's Textbook of Anatomy	Cornelius Rosse & Penelope Gaddum-Rosse	Lippincott Raven
		A Textbook of Neuroanatomy	Maria Patestas & Leslie P. Gartner	Blackwell
2	BIOCHEMISTRY	Textbook of Biochemistry with Clinical Correlations	Thomas M. Devlin	Wiley-Liss Publishing Company
		Harper's Illustrated Biochemistry	Robert K. Murray et al	Mc-Graw-Hill Companies
		Lehninger Principles of Biochemistry	David L. Nelson, Michael M. Cox	W.H. Freeman Publishing Company
3	BIOPHYSICS	Biophysics: A Physiological Approach	Patrick F. Dillon	Cambridge University Press
		Physics in Biology and Medicine (4th edition)	Paul Davidovits	Elsevier
		Introductory Biophysics: Perspectives on the Living State	J.R. Claycomb, J.P. Tran	Jones & Bartlett Publishers
4	BIOSTATISTICS	Primer of Biostatistics	Stanton Glantz	Mc-Graw-Hill Companies
5	HISTOLOGY	Junqueira's Basic Histology: Text and Atlas 13th Ed.	Anthony Mescher	Mc-Graw-Hill Companies
	EMBRYOLOGY	The Developing Human: Clinically Oriented Embryology, 10th Ed.	Keith L. Moore & T. V. N. Persaud	Saunders
6	MEDICAL BIOLOGY	Molecular Biology of the Cell	Bruce Alberts et al	Garland Science
7	MEDICAL ETHICS	Clinical Bioethics: Theory and Practice in Medical-Ethical Decision Making	James E. Drane	Sheed & Ward
	MEDICAL HISTORY	Blood and Guts: A Short History of Medicine	Roy Porter	W. W. Norton & Company
8	MICROBIOLOGY	Medical Microbiology 8th ed, 2016	P. R. Murray et al	Mosby
9	ORGANIC CHEMISTRY	Organic Chemistry	John E. McMurry	Cengage Learning
10	PHYSIOLOGY	Guyton Physiology	John E. Hall	Saunders
		Human Physiology	Stuart Fox	Mc-Graw-Hill Science
11	IMMUNOLOGY	Basic Immunology, Functions and Disorders of the Immune System	Abul Abbas Andrew H. Lichtman Shiv Pillai	Elsevier Health Sciences

MED 104-COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

DISTRIBUTION of LECTURE HOURS

September 22, 2022 – November 04, 2022

COMMITTEE DURATION: 7 WEEKS

COURSES					
MED 104	**BASIC MEDICAL SCIENCES I**	**THEO.**	**PRAC./LAB.**	**SMALL GROUP DISCUSSION**	**TOTAL**
	DISCIPLINE/COMPONENTS				
	ANATOMY	9	2 Gr x 2 H	0	11
	BIOPHYSICS	16	0	0	16
	HISTOLOGY & EMBRYOLOGY	6	2 Gr x 1 H	0	7
	MEDICAL BIOLOGY	37	4 Gr x 1 H	0	38
	MEDICAL HISTORY & ETHICS	10	0	0	10
	ORGANIC CHEMISTRY	8	0	0	8
	PHYSIOLOGY	2	0	0	2
	SCIENTIFIC RESEARCH AND PROJECT I	2	0	5 Gr x 3 H	5
	PBL			6	6
	TOTAL	**90**	**4**	**9**	**103**
MED 102	ICP I	2	5 Gr x 3 H	0	5
MED 103	ANATOMICAL DRAWING	4	8	0	12
HTR 301	ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	12	0	0	12
HUM 103	HUMANITIES	12	0	0	12
TKL 201 (AFYA 101)	TURKISH LANGUAGE & LITERATURE	12	0	0	12
	INDEPENDENT LEARNING HOURS				**64**

Coordination Committee	**Head**	Turgay İSBİR, Prof.
	Secretary	Aylin YABA UÇAR, PhD, Assoc. Prof.
	Member	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	Member	Erdem SÖZTUTAR, MD Assist. Prof.

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
LECTURERS

COURSES	DISCIPLINES	LECTURERS
MED 104- BASIC MEDICAL SCIENCES	ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
	BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Assoc. Prof.
		Alev CUMBUL, PhD, Assist. Prof.
	MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
		Soner DOĞAN, PhD, Prof.
		Deniz KIRAÇ, PhD, Assoc. Prof.
		Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof.
	MEDICAL HISTORY & ETHICS	Elif VATANOĞLU-LUTZ, MD, Prof.
	ORGANIC CHEMISTRY	Tuğçe ÖZYAZICI, PhD, Assist. Prof.
	PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
		Mehtap KAÇAR, MD, PhD, Prof.
		Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof.
	SCIENTIFIC RESEARCH and PROJECT I	Bayram YILMAZ, PhD, Prof.
		Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
MED 102-INTRODUCTION to CLINICAL PRACTICE I (ICP- I)		Özlem TANRIÖVER, MD, Prof.
		Arzu AKALIN, MD, Assist. Prof.
		Serdar Özdemir, MD, Assist. Prof.
MED 103- ANATOMICAL DRAWING		Refik AZİZ, PhD, Assist. Prof.
HTR 301-ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY		Instructor
HUM 103-HUMANITIES		Instructor
TKL 201-TURKISH LANGUAGE & LITERATURE		Instructor
AFYA 101- TURKISH LANGUAGE		Instructor

COMMITTEE I – INTRODUCTION TO BASIC MEDICAL SCIENCES

AIM and LEARNING OBJECTIVES

AIM

1. ***to convey*** basic term and concepts on medical history, anatomy, physiology, embryology, histology, medical biology, biophysics, organic chemistry.
2. ***to convey*** basic knowledge on viability.
3. ***to convey*** knowledge on cellular structure and functions**.**

LEARNING OBJECTIVES

At the end of this committee, student should be able to;

KNOWLEDGE

1.0 define fundamental concepts of anatomy
2.0 define anatomical properties and clinical implications for bones of the upper and lower limbs.
3.0 explain basic terms and concepts related to basic physics, basic biophysics, international units, biomechanics, bio-optics, bioelectronics.
4.0 explain mechanic, electrical and optical processes that are characteristics of living organisms
5.0 define basic histological terminology and describe the main types of microscopes and their uses.
6.0 explain the histological methods.
7.0 explain human genome project and the importance of the results.
8.0 explain the structure and function of eukaryotic subcellular organelles.
9.0 identify the molecules involved in the communication between the cells.
10.0 explain the mechanism of signal transduction,
11.0 describe the programmed cell death.
12.0 define the concepts of medicine,disease and health in the evolutionary perspective.
13.0 explain disease and health theories in prehistoric era
14.0 define structure of atom and chemical bonds.
15.0 for organic compounds
  15.1. define functional groups
  15.2. classify possible reactions
16.0 define homeostasis

SKILLS

1.0 apply basic laboratory techniques and use equipments
2.0 display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning

ATTITUDES

1.0. value teamwork, interpersonal skills, and significance of psychosocial issues

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER / INSTRUCTOR	DISTRIBUTION of MCQs and SbMCQ			
			CE	FE	ICE	TOTAL
1.0, 2.0	ANATOMY	Dr. E. Söztutar	10	5	5	20
3.0, 4.0	BIOPHYSICS	Dr. B. Güvenç Tuna	18	7	7	32
5.0, 6.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar	8	3	3	14
		Dr. A. Cumbul				
7.0 – 11.0	MEDICAL BIOLOGY	Dr. T. İsbir	42	17	17	76
		Dr. S. Doğan				
		Dr. D. Yat Kıraç				
		Dr. S. Güleç Yılmaz				
12.0, 13.0	MEDICAL HISTORY & ETHICS	Dr. E. Vatanoğlu Lutz	11	5	5	21
14.0, 15.0, 15.1, 15.2	ORGANIC CHEMISTRY	Dr. Tuğçe Özyazıcı	9	4	4	17
16.0	PHYSIOLOGY	Dr. B. Yılmaz	2	1	1	4
		TOTAL	**100**	**42/200#**	**42/200#**	**184**

LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS
		LPE
1.0, 2.0, SKILLS 18.0	ANATOMY	25
5.0 , 6.0, SKILLS 18.0	HISTOLOGY & EMBRYOLOGY	25
7.0 – 11.0, SKILLS 18.0	MEDICAL BIOLOGY	50
	TOTAL	**100**

Total number of MCQs are 100 (each question has equal value)
Total value of LPE is equal to 100 points
CS = 90% CE (MCQ) + 10% (LPE)

#In FE and ICE, **42** out of 200 MCQs will be from this Committee (Each question has equal value.)

Abbreviations:
MCQ: Multiple Choice Question
SbMCQ: Multiple Choice Questions which are based on a clinical, research or daily life scenario
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
I. WEEK / 19 – 23 Sep 2022

	Monday 19-Sep-2022	Tuesday 20-Sep-2022	Wednesday 21-Sep-2022	Thursday 22-Sep-2022	Friday 23-Sep-2022
09.00- 09.50	ORIENTATION DAY	ORIENTATION DAY	ORIENTATION DAY	**Independent Learning**	**Lecture** Introduction to Biophysics; Medicine, Science or Art *Bilge Güvenç Tuna*
10.00- 10.50				**Introductory Session** Introduction to Faculty *Dean*	**Lecture** Physical Measurements and Units, Unit Standards *Bilge Güvenç Tuna*
11.00- 11.50				**Introductory Session** Introduction to Committee I *Phase I Coordinator*	**Lecture** Introduction to Osteology *Erdem Söztutar*
12.00- 12.50				**Independent Learning**	**Lecture** Bones of the Soulder *Erdem Söztutar*
13.00- 13.50				**Lunch Break**	**Lunch Break**
14.00- 14.50				**Lecture** Introduction to Anatomy *Erdem Söztutar*	**Lecture** Introduction to Histology ; Basic Terminology *Alev Cumbul*
15.00- 15.50				**Lecture** Terminology in Anatomy *Erdem Söztutar*	**Lecture** Microscopy (Brightfield, Fluorescent, Confocal) *Alev Cumbul*
16:00-16:50				**Independent Learning**	**Independent Learning**
17:00-17:50					

COMMITTEEI - INTRODUCTION TO BASIC MEDICAL SCIENCES

II. WEEK / 26 Sep – 30 Sep 2022

	Monday 26-Sep-2022	Tuesday 27-Sep-2022	Wednesday 28-Sep-2022	Thursday 29-Sep-2022	Friday 30-Sep-2022
09.00- 09.50	**Independent Learning**	**Lecture** Cellular Organization of Life *Deniz Kıraç*	**Lecture** Approaches to Medicine/ Medicine in Prehistoric Times *Elif Vatanoğlu Lutz*	**Lecture** Galen *Elif Vatanoğlu Lutz*	**Lecture** Cytoskeleton *Deniz Kıraç*
10.00- 10.50	**Independent Learning**	**Lecture** Cellular Organization of Life *Deniz Kıraç*	**Lecture** Medicine in Early Civilisations (Mesopotamia, Egypt) *Elif Vatanoğlu Lutz*	**Lecture** Indian and Chinese Medicine *Elif Vatanoğlu Lutz*	**Lecture** Cytoskeleton *Deniz Kıraç*
11.00- 11.50	**Lecture** Cellular Organization of Life *Deniz Kıraç*	**Lecture / ICP I** Introduction to ICP Programmes *Özlem Tanrıöver& Arzu Akalın*	**Lecture** Greek Medicine: From Mythology to Natural Philosophy *Elif Vatanoğlu Lutz*	**Lecture** Late Antiquity: Byzantine, Arab *Elif Vatanoğlu Lutz*	**Lecture** Introduction to Medical Biology *Seda Güleç Yılmaz*
12.00- 12.50	**Lecture** Cellular Organization of Life *Deniz Kıraç*	**Lecture / ICP I** Hand washing and wearing sterile gloves and masks *Özlem Tanrıöver*	**Lecture** Hippocrates to Celsus *Elif Vatanoğlu Lutz*	**Lecture** Medicine in Abbasid Baghdad *Elif Vatanoğlu Lutz*	**Lecture** Origin of Life *Seda Güleç Yılmaz*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** The Time of Ibn Sina *Elif Vatanoğlu Lutz*	**Lecture / Scientific Research and Project I** What is Scientific Research and Scientific Methodology? *Bayram Yılmaz/ Bilge Güvenç Tuna*	**Lecture** Origin of Life *Seda Güleç Yılmaz*
15.00- 15.50			**Lecture** Seljuk and Ottoman Medicine *Elif Vatanoğlu Lutz*	**Lecture / Scientific Research and Project I** Searching Scientific Literature *Bayram Yılmaz/ Bilge Güvenç Tuna*	**Independent Learning**
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Cellular Organization of Life *Deniz Kıraç*	**Independent Learning**	
17.00-17.50			**Independent Learning**		

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
III. WEEK / 03 – 07 Oct 2022

	Monday 03-Oct-2022	Tuesday 04-Oct-2022			Wednesday 05-Oct-2022	Thursday 06-Oct-2022	Friday 07-Oct-2022
09.00- 09.50	**Lecture** Cell Adhesion *Seda Güleç Yılmaz*	**Independent Learning**			**Independent Learning**	**Lecture** Cell Signalling Events *Seda Güleç Yılmaz*	**Lecture** Bones of the Pelvis *Erdem Söztutar*
10.00- 10.50	**Lecture** Cell Adhesion *Seda Güleç Yılmaz*	**ICP I/Clinical Skills Learning** Hand washing and wearing sterile gloves and masks *Özlem Tanrıöver & Serdar Özdemir* **Group A**	**Scientific Research and Project I** Small group studies **Group B**	**Independent Learning** **Group B, C and D**	**Lecture** Cell Adhesion *Seda Güleç Yılmaz*	**Lecture** Intercellular Cell Signalling *Seda Güleç Yılmaz*	**Lecture** Center of Mass, Moment *Bilge Güvenç Tuna*
11.00- 11.50	**Lecture** Bones of the Upper Limb *Erdem Söztutar*				**Lecture** Cell Signalling Events *Seda Güleç Yılmaz*	**Lecture** Statics (Mass and Weight), Gravitation Law *Bilge Güvenç Tuna*	**Lecture** Methods of Histology; Tissue Processing *Aylin Yaba Uçar*
12.00- 12.50	**Lecture** Bones of the Upper Limb *Erdem Söztutar*				**Lecture** Cell Signalling Events *Seda Güleç Yılmaz*	**Lecture** Newton's Laws of Motion *Bilge Güvenç Tuna*	**Lecture** Methods of Histology; Immunohistochemistry *Aylin Yaba Uçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**			**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*			**Laboratory / Anatomy** Bones of The Shoulder and Upper Limb *Erdem Söztutar* **Group A**	**Lecture** Electron microscopy *Alev Cumbul*	**Independent Learning**
15.00- 15.50					**Laboratory / Anatomy** Bones of The Shoulder and Upper Limb *Erdem Söztutar* **Group B**	**Lecture** Other Histologic Methods *Alev Cumbul*	**Independent Learning**
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Humanities *Instructor*			**Independent Learning**	**Independent Learning**	**Lecture** Cytoskeleton *Deniz Kıraç*
17.00-17.50							**Lecture** Cytoskeleton *Deniz Kıraç*

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
IV. WEEK / 10– 14 Oct 2022

	Monday 10-Oct-2022	Tuesday 11-Oct-2022	Wednesday 12-Oct-2022	Thursday 13-Oct-2022		Friday 14-Oct-2022
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture** Programmed Cell Death *Seda Güleç Yılmaz*	**Laboratory / Med. Biology** Introduction to Medical Biology *Seda Güleç Yılmaz*		**Lecture** Programmed Cell Death *Seda Güleç Yılmaz*
10.00- 10.50	**Lecture** Intercellular Cell Signalling *Seda Güleç Yılmaz*		**Lecture** Programmed Cell Death *Seda Güleç Yılmaz*			**Lecture** Programmed Cell Death *Seda Güleç Yılmaz*
11.00- 11.50	**Lecture** Intercellular Cell Signalling *Seda Güleç Yılmaz*	**Lecture** Cell Cy cle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) *Deniz Yat Kıraç*	**Laboratory / Histology&Embryology** Microscopy *Aylin Yaba Uçar & Alev Cumbul* **Group B**	**ICP I/Clinical Skills Learning** Hand washing and wearing sterile glov es and masks *Özlem Tanriöver & Serdar Özdemir* **Group B**	**Group A,C and D** **Independent Learning**	**Lecture** Nature of Light, Electromagnetic Spectrum *Bilge Güvenç Tuna*
12.00- 12.50	**Lecture** Intercellular Cell Signalling *Seda Güleç Yılmaz*	**Lecture** Cell Cy cle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) *Deniz Yat Kıraç*				**Lecture** Lenses; Lens-maker Equation *Bilge Güvenç Tuna*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**		**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Histology&Embryology** Microscopy *Aylin Yaba Uçar & Alev Cumbul* **Group A**	**Lecture** Acids & Bases *Tuğçe Özyazıcı*		**Lecture** Bones of The Lower Limb *Erdem Söztutar*
15.00- 15.50				**Lecture** Acids & Bases *Tuğçe Özyazıcı*		**Lecture** Bones of The Lower Limb *Erdem Söztutar*
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Scientific Research and Project I** Small group studies **Group C**	**Independent Learning**		**Lecture** Introduction to Phy siology and Homeostasis *Bayram Yılmaz*
17.00-17.50						**Lecture** Introduction to Phy siology and Homeostasis *Bayram Yılmaz*

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
V. WEEK / 17– 21 Oct 2022

	Monday 17-Oct-2022	Tuesday 18-Oct-2022			Wednesday 19-Oct-2022	Thursday 20-Oct-2022	Friday 21-Oct-2022
09.00- 09.50	**Lecture** Cellular Homoestosis and Cell Growth *Deniz Kıraç*	**Independent Learning**			**Lecture** Ref lection and Ref raction of Light *Bilge Güvenç Tuna*	**Lecture** Alkenes *Tuğçe Özyazıcı*	**PROBLEM BASED LEARNING ORIENTATION DAY**
10.00- 10.50	**Lecture** Cellular Homoestosis and Cell Growth *Deniz Kıraç*	**ICP I/Clinical Skills Learning** Hand washing and wearing sterile glov es and masks *Arzu Akalın & Serdar Özdemir* **Group C**	**Scientific Research and Project I** Small group studies **Group D**	**Group A and B Independent Learning**	**Lecture** Bio-optics: Vision and Ey e, Ref raction errors *Bilge Güvenç Tuna*	**Lecture** Alkenes *Tuğçe Özyazıcı*	
11.00- 11.50	**Lecture** Alkenes *Tuğçe Özyazıcı*				**Lecture** Cell Membrane *Seda Güleç Yılmaz*	**Lecture** Optical Properties of Microscopes *Bilge Güvenç Tuna*	
12.00- 12.50	**Lecture** Alkenes *Tuğçe Özyazıcı*				**Introductory Session** Introduction to Problem Based Learning (PBL) *PBL Coordinators*	**Lecture** Optical Properties of Microscopes *Bilge Güvenç Tuna*	**Independent Learning**
13.00- 13.50	**Lunch Break**	**Lunch Break**			**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*			**Laboratory / Anatomy** Bones of The Pelv is and Lower Limb *Erdem Söztutar* **Group A**	**Introductory Session** Orientation f or Committee Examinations *Phase I Coordinators*	**PROBLEM BASED LEARNING ORIENTATION DAY**
15.00- 15.50					**Laboratory / Anatomy** Bones of The Pelv is and Lower Limb *Erdem Söztutar* **Group B**	**Lecture** Cell Membrane *Seda Güleç Yılmaz*	
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Humanities *Instructor*			**Independent Learning**	**Lecture** Cell Membrane *Seda Güleç Yılmaz*	
17.00-17.50						**Independent Learning**	**Independent Learning**

COMMITTEEI - INTRODUCTION TO BASIC MEDICAL SCIENCES
VI. WEEK / 24 – 28 Oct 2022

	Monday 24-Oct-2022	Tuesday 25-Oct-2022	Wednesday 26-Oct-2022	Thursday 27-Oct-2022	Friday 28-Oct-2022
09.00- 09.50	**Lecture** Benzene & Aromaticity *Tuğçe Özyazıcı*	**Independent Learning**	**Lecture** Biological Energy Systems Enzymes and Kinetics *Seda Güleç Yılmaz*	**Lecture** Electric Current Effects on Human Tissue *Bilge Güvenç Tuna*	**Independent Learning**
10.00- 10.50	**Lecture** Benzene & Aromaticity *Tuğçe Özyazıcı*	**ICP I/Clinical Skills Learning** Hand washing and wearing sterile gloves and masks *Arzu Akalın & Serdar Özdemir* **Group D** **Scientific Research and Project I** Small group studies **Group E** **Group B and C Independent Learning**	**Lecture** Biological Energy Systems Enzymes and Kinetics *Seda Güleç Yılmaz*	**Lecture** Electric Charges, Electric Field *Bilge Güvenç Tuna*	**Lecture** Electrical Security Systems *Bilge Güvenç Tuna*
11.00- 11.50	**Lecture** Cell Regulation *Deniz Yat Kıraç*		**Lecture** Optical Aberrations *Bilge Güvenç Tuna*	**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Seda Güleç Yılmaz* **Group D**	**Independent Learning**
12.00- 12.50	**Lecture** Cell Regulation *Deniz Yat Kıraç*		**Lecture** Membrane Impedance, Bioelectrical Activity *Bilge Güvenç Tuna*	**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Seda Güleç Yılmaz* **Group C**	**Independent Learning**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**ICP I/Clinical Skills Learning** Hand washing and wearing sterile gloves and masks *Arzu Akalın & Serdar Özdemir* **Group E** **Scientific Research and Project I** Small group studies **Group A** **Independent Learning**	**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Seda Güleç Yılmaz* **Group B**	**NATIONAL HOLIDAY**
15.00- 15.50				**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Seda Güleç Yılmaz* **Group A**	
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Humanities *Instructor*		**Independent Learning**	
17.00-17.50					

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VII. WEEK / 31 Oct – 04 Nov 2022

	Monday 31-Oct-2022	Tuesday 01-Nov-2022	Wednesday 02-Nov-2022	Thursday 03-Nov- 2022	Friday 04-Nov-2022
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50					**Assessment Session** **Committee I** (MCQ)
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Assessment Session** **Anatomy,** **Medical Biology,** **Histology & Embryology** **(Practical Exam)**	**Independent Learning**	**Program Evaluation Session** Review of the Exam Questions Evaluation of the Committee I Program *Head of Committee*
15.00- 15.50					
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Humanities *Instructor*			**Independent Learning**
17.00-17.50					

MED 104- COMMITTEE II - CELL

DISTRIBUTION of LECTURE HOURS

07 November 2022 – 30 December 2022

COMMITTEE DURATION: 8 WEEKS

COURSES					
MED 104	**BASIC MEDICAL SCIENCES I**	**THEO.**	**PRAC./LAB.**	**SMALL GROUP DISCUSSION**	**TOTAL**
	DISCIPLINE/COMPONENTS				
	ANATOMY	8	2Grx3H	0	11
	BIOPHYSICS	14	0	0	14
	HISTOLOGY and EMBRYOLOGY	14	2Grx2H	0	16
	MEDICAL BIOLOGY	33	1Gx2H 4Grx3H	0	38
	MEDICAL HISTORY & ETHICS	6	0	0	6
	MEDICAL MICROBIOLOGY	12	0	0	12
	ORGANIC CHEMISTRY	10	0	0	10
	PHYSIOLOGY	6	4Grx1H	0	7
	SCIENTIFIC PROJECT I	0	0	5Grx3H	3
	PBL	0	0	6	6
	TOTAL	**103**	**11**	**9**	**123**
MED 102	**INTRODUCTION to CLINICAL PRACTICE I (ICP- I)**	17	5Grx4H		21
MED 103	**ANATOMICAL DRAWING**	0	14		14
HTR 301	**ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	14	0		14
HUM 103	**HUMANITIES**	14	0		14
TKL 201	**TURKISH LANGUAGE & LITERATURE**	14	0		14
	INDEPENDENT HOURS				**59**

Coordination Committee	Head	Deniz KIRAÇ, PhD, Assoc. Prof.
	Secretary	Seda GÜLEÇ YILMAZ, PhD,Assoc. Prof
	Member	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	Member	Alev CUMBUL, PhD, Assist. Prof.

COMMITTEE II – CELL

LECTURERS

COURSES	DISCIPLINE	LECTURERS
MED 104- BASIC MEDICAL SCIENCES I	ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
	BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Assoc. Prof.
		Alev CUMBUL, PhD, Assist. Prof.
	MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
		Soner DOĞAN, PhD, Prof.
		Deniz KIRAÇ, PhD, Assoc. Prof.
		Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof.
	MEDICAL HISTORY & ETHICS	Elif VATANOĞLU LUTZ, MD, Prof.
	MEDICAL MICROBIOLOGY	Pınar ÇIRAGİL, MD, Prof.
		Sibel ERGÜVEN, MD, Prof.
		Nilgün ÇERİKÇİOĞLU, MD, Prof.
	ORGANIC CHEMISTRY	Tuğçe ÖZYAZICI,Assist. Prof.
	PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
		Mehtap KAÇAR, MD, PhD. Prof.
		Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof.
	SCIENTIFIC RESEARCH AND PROJECT I	Bayram YILMAZ, PhD, Prof.
		Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
MED 102-INTRODUCTION to CLINICAL PRACTICE I (ICP- I)		Güldal İZBIRAK, MD, Prof.
		Özlem TANRIÖVER, MD, Prof.
		Arzu AKALIN, MD, Assist. Prof.
		Serdar ÖZDEMİR, MD, PhD, Assist. Prof.
		Elif VATANOĞLU LUTZ, MD, Prof.
		Sezgin SARIKAYA, MD., Prof.
		Pınar TURA, MD. Assist.Prof.
		Cem ŞİMŞEK, MD. Assist. Prof.
		Gökhan GENÇER, MD. Assist. Prof.
		Beşir DEMİR, MD
		Y. Emre VURAL, MD.
		Ayfer İSKENDER, MD.
		Hande CANDEMİR, MD.
MED 103- ANATOMICAL DRAWING		Refik AZİZ, PhD, Assist. Prof.
HTR 301-ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY		Instructor
HUM 103-HUMANITIES		Instructor
TKL 201-TURKISH LANGUAGE & LITERATURE		Instructor
AFYA 101- TURKISH LANGUAGE		Instructor

COMMITTEE II – CELL
AIM and LEARNING OBJECTIVES

AIM

1.0 ***to convey*** basic term and concepts on medical history, anatomy, physiology, embryology, histology, medical biology, biophysics, organic chemistry and microbiology**.**

2.0 ***to convey*** knowledge on cellular structure and functions**.**

3.0 ***to convey*** knowledge on process from zygote to formation of organs.

4.0 ***to convey*** knowledge on system-specific (bones, skull, vertebra, and thorax) anatomy and its clinical applications.

LEARNING OBJECTIVES

At the end of this committee, student should be able to;

KNOWLEDGE

1.0 define anatomical properties and clinical implications for the axial skeleton

2.0 explain basic terms and concepts about radiation biophysics, radiation safety and use of lasers.

3.0 list effects of radiation to the organism, its evaluation methods on the cellular basis and protection approaches.

4.0 define the histological characteristics of cell membrane and functions

5.0 define the cellular organelles and their functions

6.0 explain the cytoskeleton components and their functions

7.0 explain the histological characteristics of the cell nucleus

8.0 define the basic terms of embryology and list the difference between mitosis and meiosis

9.0 list the difference between male and female gametogenesis

10.0 explain the developmental events respectively from zygote to gastrulation

11.0 define cell membrane structures and explain membrane transport mechanisms

12.0 for distribution of substances in body fluids;

12.1. define intra and extracellular fluid compartments

12.2. explain the distribution and functions of electrolytes such as Na, K and Ca in body fluids

12.3. define edema

13.0 define the term osmosis and explain the conditions required for osmosis to occur and explain the dynamics of osmotic pressure.

14.0 for transport of substances through the cell membrane;

14.1. define diffusion and explain the factors that influence the rate of diffusion through cell membranes.

14.2. define the characteristics of carrier-mediated transport.

14.3 explain active transport mechanisms and describe how the Na+/K+ pump works

15.0 explain transfer mechanisms of cellular membrane and the connection of these mechanisms with material and energy requirements.

16.0 explain the roles of DNA and RNA in the maintenance of living organisms.

17.0 list the protein synthesis steps and define the mechanisms of regulation of gene expression.

18.0 define types of mutations and emphasize the importance of gene polymorphisms in human health and variability.

19.0 define plasmids and their use in molecular biology,

20.0 explain the identification methods of chromosomes and their use in medical clinics.

21.0 define the correlation of medicine, art and philosophy from prehistoric ages to date**.**

22.0 for microorganisms;

22.1. classify

22.2. list general characteristics.

23.0 define structure of organic compounds and their chemical reactions

24.0 define structures and reactions of macromolecules such as amino acid, protein, lipid and carbohydrate.

25.0 explain case scenario related basic medical science topics in a clinical context.

SKILLS

1.0 apply basic laboratory techniques and use equipments

2.0 display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning

ATTITUDES

1.0. value teamwork, interpersonal skills, and significance of psychosocial issues

COMMITTEE II – CELL
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINES	LECTURER / INSTRUCTOR	DISTRIBUTION of MCQs and SbMCQ			
			CE	FE	ICE	TOTAL
1.0	ANATOMY	Dr. E. Söztutar	8	4	4	16
2.0, 3.0	BIOPHYSICS	Dr. B. G. Tuna	13	6	6	25
4.0 – 10.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	13	6	6	25
11.0, 14.0	PHYSIOLOGY	Dr. B. Gemici Başol	6	3	3	12
15.0 -20.0	MEDICAL BIOLOGY	Dr. T. Isbir Dr. S. Doğan Dr. D. Kıraç Dr. S. Güleç Yılmaz	32	15	15	62
21.0	MEDICAL HISTORY& ETICS	Dr. E. Vatanoğlu Lutz	6	3	3	12
22.1, 22.2	MEDICAL MICROBIOLOGY	Dr. Çıragil Dr. Ergüven Dr. Çerikçioğlu	11	5	5	21
23.0, 24.0	ORGANIC CHEMISTRY	Dr. T. Özyazıcı	10	5	5	20
25.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	**100**	**47/200#**	**47/200#**	**194**

LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS
		LPE
1.0, SKILLS 1.0	ANATOMY	20
4.0-10.0 SKILLS 1.0	HISTOLOGY & EMBRYOLOGY	20
15.0-20.0, SKILLS 1.0	MEDICAL BIOLOGY	40
11.0-14.0, SKILLS 1.0	PHYSIOLOGY	20
	TOTAL	**100**

Total number of MCQs are 100 (each question has equal value)
Total value of LPE is equal to 100 points
CS = 95% of [90% CE (MCQ) + 10% (LPE)] + 5% of PBL-P

#In FE and ICE **46** out of 200 MCQs will be fromthis Committee (Each question has equal value).

Abbreviations:
MCQ: Multiple Choice Question
SbMCQ: Multiple Choice Questions which are based on a clinical, research or daily life scenario
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
PBL-P: Evaluation of PBL Student's Performance

COMMITTEEII – CELL
I. WEEK / 07-11 Nov 2022

	Monday 07-Nov-2022	Tuesday 08-Nov-2022	Wednesday 09-Nov-2022	Thursday 10-Nov-2022	Friday 11-Nov-2022
09.00- 09.50	PBL Session	Introductory Session Introduction to Committee II *Secretary of Committee II*	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50		ICP I Lecture *Introduction to the First Aid Programmes* *Güldal İzbırak*	Lecture Nuclear Stability ***Bilge Güvenç Tuna***	Laboratory / Med. Biology Mitosis and Meiosis ***Deniz Kıraç*** Group A	
11.00- 11.50		ICP I Lecture ***Basic Human Body*** *Arzu Akalın*	Lecture Radiation Biophysics: Nucleus and Radioactivity ***Bilge Güvenç Tuna***	Laboratory / Med. Biology Mitosis and Meiosis ***Deniz Kıraç*** Group B	Lecture Deoxyribonucleic Acid and Ribonucleic Acid ***Seda Güleç Yılmaz***
12.00- 12.50	Independent Learning	ICP I Lecture *Scene Assessment* *Arzu Akalın*	Lecture Introduction to basic microbiology and applications ***Pınar Çıragil***	Laboratory / Med. Biology Mitosis and Meiosis ***Deniz Kıraç*** *Group C*	Lecture Deoxyribonucleic Acid and Ribonucleic Acid ***Seda Güleç Yılmaz***
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Laboratory / Med. Biology Mitosis and Meiosis ***Deniz Kıraç*** Group D	Lunch Break
14.00- 14.50	Common Compulsory Course Atatürk's Principles & History of Modern Turkey *Instructor*	Common Compulsory Course Anatomical Drawing ***Refik Aziz***	Lecture Biosynthesis of Nucleotides ***Seda Güleç Yılmaz***	Lunch Break	Lecture Vertebral Column, Ribs and Sternum ***Erdem Söztutar***
15.00- 15.50			Lecture Cell Cycle and Mitosis-Meiosis ***Deniz Kıraç***	Independent Learning	Lecture Vertebral Column, Ribs and Sternum ***Erdem Söztutar***
16.00- 16.50	Common Compulsory Course Turkish Language & Literature ***Instructor***	Common Compulsory Course Humanities *Instructor*	Lecture Cell Cycle and Mitosis-Meiosis ***Deniz Kıraç***		Independent Learning
17.00-17.50			Independent Learning		

COMMITTEE II – CELL
II. WEEK / 14– 18 Nov 2022

	Monday 14-Nov-2022	Tuesday 15-Nov-2022	Wednesday 16-Nov-2022	Thursday 17-Nov-2022	Friday 18-Nov-2022
09.00- 09.50	PBL Session	**ICP I Lecture** Basic Life Support and Heimlich Maneuver *Güldal İzbırak*	**Lecture** Cell; General Specification *Alev Cumbul*	**Lecture** Alcohols and Ethers *Tuğçe Özyazıcı*	**Independent Learning**
10.00- 10.50		**ICP I Lecture** Basic Life Support and Heimlich Maneuver *Güldal İzbırak*	**Lecture** Cell; General Specification *Alev Cumbul*	**Lecture** Alcohols and Ethers *Tuğçe Özyazıcı*	**Lecture** Cell Organelles: Membranous and Nonmembranous Organelles *Aylin Yaba Uçar*
11.00- 11.50		**ICP I Lecture** Shock and Bleeding Control *Güldal İzbırak*	**Lecture** Distribution of Substances in Body Fluids *Burcu Gemici Başol*	**Lecture** Deoxyribonucleic Acid and Ribonucleic Acid *Seda Güleç Yılmaz*	**Lecture** Interaction of Radiation with Matter *Bilge Güvenç Tuna*
12.00- 12.50	**Independent Learning**	**ICP I Lecture** Burns, Freezing, Frostbite *Özlem Tanrıöver*	**Lecture** Cell Membrane *Burcu Gemici Başol*	**Lecture** Cell Cycle (Mitosis & Meiosis) and Cell Death *Alev Cumbul*	**Lecture** Interaction of X or Gamma Rays with Matter *Bilge Güvenç Tuna*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** **Atatürk's Principles & History of Modern Turkey** Instructor	**Common Compulsory Course** **Anatomical Drawing** *Refik Aziz*	**Laboratory / Anatomy** Vertebral Column, Ribs and Sternum *Erdem Söztutar* **Group A**	**Lecture** Mendelian Laws and Inheritance *Soner Doğan*	**Lecture** Classification and General Structures of Bacteria *Pınar Çıragil*
15.00- 15.50			**Laboratory / Anatomy** Vertebral Column, Ribs and Sternum *Erdem Söztutar* **Group B**	**Lecture** Mendelian Laws and Inheritance *Soner Doğan*	**Lecture** Classification and General Structures of Bacteria *Pınar Çıragil*
16.00- 16.50	**Common Compulsory Course** **Turkish Language & Literature** Instructor	**Common Compulsory Course** **Humanities** Instructor	**Lecture** Bacterial Metabolism *Pınar Çıragil*	**Independent Learning**	**Independent Learning**
17.00-17.50			**Lecture** Bacterial Genetics *Pınar Çıragil*		

COMMITTEEII –CELL

III. WEEK / 21 - 25 November 2022

	Monday 21-Nov-2022	Tuesday 22-Nov-2022	Wednesday 23-Nov-2022	Thursday 24-Nov-2022	Friday 25-Nov-2022
09.00- 09.50	**Independent Learning**	**ICP I Lecture** Injuries *Arzu Akalın*	**ICP I Lecture** Drowning *Güldal İzbırak*	**Lecture** Carbony l Compounds *Tuğçe Özyazıcı*	**Lecture** DNA Damage and Repair Mechanism *Seda Güleç Yılmaz*
10.00- 10.50		**ICP I Lecture** **Foreign Objects** *Arzu Akalın*	**ICP I Lecture** Poisoning *Arzu Akalın*	**Lecture** **Carbonyl Compounds** *Tuğçe Özyazıcı*	**Lecture** DNA Damage and Repair Mechanism *Seda Güleç Yılmaz*
11.00- 11.50	**Lecture** Cy toskeleton *Aylin Yaba Uçar*	**ICP I Lecture** Fractures and Dislocation *Özlem Tanrıöver*	**Lecture** Introduction to Embry ology and Human Dev opmental Period *Alev Cumbul*	**Lecture** Deoxy ribonucleic Acid and Ribonucleic Acid (Central Dogma) *Seda Güleç Yılmaz*	**Lecture** Photoelectric Action, Compton Action *Bilge Güvenç Tuna*
12.00- 12.50	**Lecture** Cell Nucleus *Aylin Yaba Uçar*	**ICP I Lecture** The Unconscious Casualty *Güldal İzbırak*	**Lecture** Gametogenesis; Spermatogenesis *Alev Cumbul*	**Lecture** Deoxy ribonucleic Acid and Ribonucleic Acid (Central Dogma) *Seda Güleç Yılmaz*	**Lecture** **Half Value Layer, Attenuation** *Bilge Güvenç Tuna*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** **Atatürk's Principles & History of Modern Turkey** Instructor	**Common Compulsory Course** **Anatomical Drawing** *Refik Aziz*	**Lecture** Mendelian Laws and Inheritance *Soner Doğan*	**Laboratory / Med. Biology** Population Genetics (Epigenetics) *Soner Doğan* **Group B**	**Lecture** **Gametogenesis; Oogenesis and Folliculogenesis** *Aylin Yaba Uçar*
15.00- 15.50			**Lecture** **Mendelian Laws and Inheritance** *Soner Doğan*	**Laboratory / Med. Biology** Population Genetics (Epigenetics) *Soner Doğan* **Group C**	**Lecture** **Ovarian and Uterinal Cycle** *Aylin Yaba Uçar*
16.00- 16.50	**Common Compulsory Course** **Turkish Language & Literature** Instructor	**Common Compulsory Course** **Humanities** Instructor	**Lecture** Classif ication and General Structures of Fungi *Nilgün Çerikçioğlu*	**Laboratory / Med. Biology** Population Genetics (Epigenetics) *Soner Doğan* **Group D**	**Independent Learning**
17.00-17.50			**Lecture** Classif ication and General Structures of Fungi *Nilgün Çerikçioğlu*	**Laboratory / Med. Biology** Population Genetics (Epigenetics) *Soner Doğan* **Group A**	

COMMITTEE II – CELL

IV. WEEK / 28 Nov – 02 Dec 2022

<table>
<tr><th></th><th>Monday
28-Nov-2022</th><th>Tuesday
29-Nov-2022</th><th>Wednesday
30-Nov-2022</th><th>Thursday
1-Dec-2022</th><th>Friday
2-Dec-2022</th></tr>
<tr><td>09.00- 09.50</td><td>Independent Learning</td><td>ICP I Lecture
Insect Bite
Özlem Tanrıöver</td><td>Lecture
Rise of the Hospitals
Elif Vatanoğlu Lutz</td><td rowspan="2">Laboratory / Med. Biology
Nucleic Acid Purification
Seda Güleç Yılmaz
Group C</td><td>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td>Lecture
Regulation of Gene Expression
Seda Güleç Yılmaz</td><td>ICP I Lecture
Patient-Casualty Transportation Techniques
Özlem Tanrıöver</td><td>Lecture
From Mahmud II's Mekteb-i Tıbbiye to the University Reform 1933
Elif Vatanoğlu Lutz</td><td>Lecture
Protein Synthesisand Turnover
Seda Güleç Yılmaz</td></tr>
<tr><td>11.00- 11.50</td><td>Lecture
Regulation of Gene Expression
Seda Güleç Yılmaz</td><td>ICP I Lecture
Legal Aspect of First Aid
Elif Vatanoğlu Lutz</td><td>Lecture
The Demise of Humoral Theory
Elif Vatanoğlu Lutz</td><td rowspan="2">Laboratory / Med. Biology
Nucleic Acid Purification
Seda Güleç Yılmaz
Group D</td><td>Lecture
Protein Synthesisand Turnover
Seda Güleç Yılmaz</td></tr>
<tr><td>12.00- 12.50</td><td>Lecture
Tools in Medical Biology
Deniz Kıraç</td><td>ICP I Lecture
Legal Aspect of First Aid
Elif Vatanoğlu Lutz</td><td>Lecture
Medicalisation
Elif Vatanoğlu Lutz</td><td>Lecture
Protein Synthesisand Turnover
Seda Güleç Yılmaz</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Common Compulsory Course
Atatürk's Principles & History of Modern Turkey
Instructor</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Cells and Bacteria
Elif Vatanoğlu Lutz</td><td rowspan="2">Laboratory / Med. Biology
Nucleic Acid Purification
Seda Güleç Yılmaz
Group A</td><td>Lecture
Radiation Protection (Safety)
Bilge Güvenç Tuna</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Anaesthesia, Antisepsis
Elif Vatanoğlu Lutz</td><td>Lecture
Unitsof Radioactivity
Bilge Güvenç Tuna</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td><td>Lecture
Classification and General Structures of Parasites
Sibel Ergüven</td><td rowspan="2">Laboratory / Med. Biology
Nucleic Acid Purification
Seda Güleç Yılmaz
Group B</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td><td>Lecture
Classification and General Structures of Parasites
Sibel Ergüven</td></tr>
</table>

COMMITTEE II – CELL
V. WEEK / 05 - 09 Dec 2022

	Monday 05-Dec-2022	Tuesday 06-Dec-2022	Wednesday 07-Dec-2022	Thursday 08-Dec-2022	Friday 09-Dec-2022
09.00- 09.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Serdar Özdemir* *Sezgin Sarıkaya* *Y.Emre Vural*	**Lecture** Neurocranium ***Erdem Söztutar***	**Lecture** Carboxylic Acids and Nitriles *Tuğçe Özyazıcı*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements ***Soner Doğan***
10.00- 10.50		**Group A** / **Scientific Research and Project I Small group studies Group B** / **Independent Learning**	**Lecture** Neurocranium ***Erdem Söztutar***	**Lecture** Carboxylic Acids and Nitriles *Tuğçe Özyazıcı*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements ***Soner Doğan***
11.00- 11.50	**Lecture** Osmotic Pressure and Permeability of The Cell Membrane ***Burcu Gemici Başol***		**Lecture** Neurocranium *Erdem Söztutar*	**Lecture** First Week of Development: Fertilization *Aylin Yaba Uçar*	**Lecture** Radioisotopes in Medicine ***Bilge Güvenç Tuna***
12.00- 12.50	**Lecture** Transport of Substances Through the Cell Membrane ***Burcu Gemici Başol***		**Lecture** Tools in Medical Biology *Soner Doğan*	**Lecture** First Week of Development: Fertilization *Aylin Yaba Uçar*	**Lecture** Biological mechanisms of Radiation ***Bilge Güvenç Tuna***
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** **Atatürk's Principles & History of Modern Turkey** **Instructor**	**Common Compulsory Course** **Anatomical Drawing** **Refik Aziz**	**Lecture** Genomics, Proteomics and Metabolomics ***Seda Güleç Yılmaz***	**Laboratory / Anatomy** Neurocranium ***Erdem Söztutar*** **Group B**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Serdar Özdemir* *Pınar Tura / Beşir Demir*
15.00- 15.50			**Lecture** Genomics, Proteomics and Metabolomics ***Seda Güleç Yılmaz***	**Laboratory / Anatomy** Neurocranium ***Erdem Söztutar*** **Group A**	**Group B** / **Scientific Research and Project I Small group studies Group C** / **Independent Learning**
16.00- 16.50	**Common Compulsory Course** **Turkish Language & Literature** **Instructor**	**Common Compulsory Course** **Humanities** **Instructor**	**ELECTIVE COURSE ORIENTATION**	**Independent Learning**	
17.00-17.50					

COMMITTEEII – CELL

VI. WEEK / 12 -16 December 2022

	Monday 12-Dec-2022	Tuesday 13-Dec-2022	Wednesday 14-Dec-2022	Thursday 15-Dec-2022	Friday 16-Dec-2022
09.00- 09.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Serdar Özdemir/* *Cem Şimşek /* *Y.Emre Vural*	**Lecture** Second Week of Development: Implantation and Bilaminar Germ Disc Formation ***Aylin Yaba Uçar***	**Lecture** Amines ***Tuğçe Özyazıcı***	**Lecture** Transport of Substances Through the Cell Membrane ***Bucu Gemici Başol***
10.00- 10.50	**Independent Learning**	**Group C** / **Scientific Research and Project I Small group studies Group D** / **Independent Learning**	**Lecture** Third Week of Development:Gastrulation; Primitive Streak, Notochord Formation ***Alev Cumbul***	**Lecture** Amines ***Tuğçe Özyazıcı***	**Lecture** Transport of Substances Through the Cell Membrane ***Bucu Gemici Başol***
11.00- 11.50	**Lecture** Mutation and Polymorphism ***Seda Güleç Yılmaz***		**Lecture** Lasers in Medicine ***Bilge Güvenç Tuna***	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements ***Deniz Kıraç***	**Lecture** Medical Imaging: Nuclear Medicine ***Bilge Güvenç Tuna***
12.00- 12.50	**Lecture** Mutation and Polymorphism ***Seda Güleç Yılmaz***		**Lecture** Lasers in Medicine ***Bilge Güvenç Tuna***	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements ***Deniz Kıraç***	**Lecture** Medical Imaging: Applications of X-ray Attenuation & Detection ***Bilge Güvenç Tuna***
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** **Atatürk's Principles & History of Modern Turkey** **Instructor**	**Common Compulsory Course** **Anatomical Drawing** ***Refik Aziz***	**Lecture** Classification and General Structures of Viruses ***Pınar Çıragil***	**Laboratory / Med. Biology** Gene Identification in Cancer ***Seda Güleç Yılmaz*** **Group D**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Serdar Özdemir/* *Gökhan Gencer /* *Ayfer İskender*
15.00- 15.50			**Lecture** Classification and General Structures of Viruses ***Pınar Çıragil***	**Laboratory / Med. Biology** Gene Identification in Cancer ***Seda Güleç Yılmaz*** **Group A**	**Group D** / **Scientific Research and Project I Small group studies Group E** / **Independent Learning**
16.00- 16.50	**Common Compulsory Course** **Turkish Language & Literature** **Instructor**	**Common Compulsory Course** **Humanities** **Instructor**	**Lecture** Sterilization and Disinfection ***Pınar Çıragil***	**Laboratory / Med. Biology** Gene Identification in Cancer ***Seda Güleç Yılmaz*** **Group B**	
17.00-17.50			**Independent Learning**	**Laboratory / Med. Biology** Gene Identification in Cancer ***Seda Güleç Yılmaz*** **Group C**	

COMMITTEEII – CELL
VII. WEEK / 19-23 December 2022

	Monday 19-Dec-2022	Tuesday 20-Dec-2022	Wednesday 21-Dec-2022	Thursday 22-Dec-202	Friday 23-Dec-2022
09.00- 09.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Serdar Özdemir/* *Hande Candemir /* *Ayfer İskender*	**Laboratory /** **Histology&Embryology** Dev eloping Human-I ***Aylin Yaba Uçar & Alev Cumbul*** **Group A**	**Lecture** Steroids ***Tuğçe Özyazıcı***	**Independent Learning**
10.00- 10.50	**Lecture** Viscerocranium ***Erdem Söztutar***	**Group E** / **Scientific Research and Project I Small group Group A** / **Independent Learning**		**Lecture** Steroids ***Tuğçe Özyazıcı***	
11.00- 11.50	**Lecture** Viscerocranium ***Erdem Söztutar***		**Laboratory /** **Histology&Embryology** Dev eloping Human-I ***Aylin Yaba Uçar & Alev Cumbul*** **Group B**	**Lecture** Biological Aspects of Development ***Deniz Kıraç***	
12.00- 12.50	**Lecture** Viscerocranium ***Erdem Söztutar***			**Lecture** Biological Aspects of Development ***Deniz Kıraç***	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** **Atatürk's Principles & History of Modern Turkey** **Instructor**	**Common Compulsory Course** **Anatomical Drawing** ***Refik Aziz***	**Laboratory / Anatomy** Viscerocranium ***Erdem Söztutar*** **Group B**	**Laboratory / Physiology** Osmosis & Diffusion ***Burcu Gemici Başol*** **Group A**	**Independent Learning**
15.00- 15.50			**Laboratory / Anatomy** Viscerocranium ***Erdem Söztutar*** **Group A**	**Laboratory / Physiology** Osmosis & Diffusion ***Burcu Gemici Başol*** **Group B**	
16.00- 16.50	**Common Compulsory Course** **Turkish Language & Literature** **Instructor**	**Common Compulsory Course** **Humanities** **Instructor**	**Lecture** Cell and Gene Therapy ***Soner Doğan***	**Laboratory / Physiology** Osmosis & Diffusion ***Burcu Gemici Başol*** **Group C**	
17.00-17.50			**Lecture** Cell and Gene Therapy ***Soner Doğan***	**Laboratory / Physiology** Osmosis & Diffusion ***Burcu Gemici Başol*** **Group D**	

COMMITTEE II – CELL
VIII. WEEK / 26-30 December 2022

	Monday 26-Dec-2022	Tuesday 27-Dec-2022	Wednesday 28-Dec-2022	Thursday 29-Dec-202	Friday 30-Dec-2022
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50			Assessment Session Committee II (MCQ)		
11.00- 11.50					
12.00- 12.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
13.00- 13.50	Assessment Session Anatomy, Medical Biology, Histology&Embryology, Physiology (Practical Exam)	Independent Learning	Program Evaluation Session Review of the Exam Questions Evaluation of the Committee II Program *Head of Committee*	Independent Learning	Independent Learning
14.00- 14.50			Independent Learning		
15.00- 15.50	Independent Learning				
16.00- 16.50					
17.00-17.50					

MED 104-COMMITTEE III - TISSUE I

DISTRIBUTION of LECTURE HOURS

January 02, 2023 – February 24, 2023

COMMITTEE DURATION: 6 WEEKS

COURSES					
MED 104	**BASIC MEDICAL SCIENCES I**	**THEO.**	**PRAC. /LAB.**	**SMALL GROUPS DISCUSSION**	**TOTAL**
	DISCIPLINE/ COMPONENTS				
	ANATOMY	18	2Grx5H	0	23
	BIOPHYSICS	10	0	0	10
	HISTOLOGY & EMBRYOLOGY	13	2Grx6H	0	19
	MEDICAL HISTORY & ETHICS	4	0	0	4
	PHYSIOLOGY	8	4Grx4H	0	12
	SCIENTIFIC RESEARCH AND PROJECT I	2	0	5Grx3H	5
	IMMUNOLOGY	4	0	0	4
	PBL	0	0	6	6
	TOTAL	**59**	**14**	**9**	**82**
MED 102	**INTRODUCTION to CLINICAL PRACTICE-I**	8	5Grx4H	0	12
MED 103	**ANATOMICAL DRAWING**	0	12	0	12
HTR 302	**ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	8	0	0	8
MED 611-MED 632	**FREE ELECTIVE COURSE**	6	0	0	6
TKL 202	**TURKISH LANGUAGE & LITERATURE**	6	0	0	6
	INDEPENDENT LEARNING HOURS				**75**

Coordination Committee	Head	Burcu GEMİCİ BAŞOL, PhD. Assoc. Prof.
	Secretary	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	Member	Soner DOĞAN, PhD. Prof.
	Member	Alev CUMBUL, PhD, Assist. Prof.

COMMITTEE III –TISSUE I
LECTURERS

COURSES	DISCIPLINE	LECTURERS
MED 104-BASIC MEDICAL SCIENCES I	ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
	BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Assoc. Prof.
		Alev CUMBUL, PhD, Assist. Prof.
	MEDICAL HISTORY & ETHICS	Elif VATANOĞLU LUTZ, MD. Prof.
	PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
		Mehtap KAÇAR, MD, PhD, Prof.
		Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof.
	SCIENTIFIC RESEARCH AND PROJECT I	Bayram YILMAZ, PhD, Prof.
		Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof.
MED 102- INTRODUCTION to CLINICAL PRACTICE I (ICP-I)		Güldal İZBIRAK, MD, Prof.
		Özlem TANRIÖVER, MD, Prof.
		Arzu AKALIN, MD, Assist. Prof.
		Serdar ÖZDEMİR, MD, Assist. Prof.
		Sezgin SARIKAYA, MD. Prof.
		Cem ŞİMŞEK, Assist. Prof.
		Hande CANDEMİR, MD. Assist. Prof.
		Abuzer KEKEÇ, MD
		Erman UYGUN, MD.
MED 103-ANATOMICAL DRAWING		Refik AZİZ, PhD, Assist. Prof.
HTR 302- ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY		Instructor
TKL 202- TURKISH LANGUAGE & LITERATURE		Instructor
AFYA 102- TURKISH LANGUAGE		Instructor

COMMITTEE III –TISSUE I
AIM AND LEARNING OBJECTIVES

AIM

1. **to convey** basic terms and concepts for anatomy, physiology, embryology, histology, immunology, biophysics, behavioral sciences, and medical ethics.
2. ***to convey*** knowledge on four fundamental tissues forming the body, cells forming these tissues.
3. ***to convey*** knowledge on excitation and contraction mechanisms of muscles.
4. ***to convey*** knowledge on system-specific (pelvis, joints of vertebrae, bones and joints of lower and upper extremities) anatomy and its clinical applications.

LEARNING OBJECTIVES

At the end of this committee, student should be able to;

KNOWLEDGE

1.0 explain anatomical characteristics of joints in general.
2.0 define anatomical properties and clinical implications for the joints of extremities..
3.0 explain anatomical characteristics of muscles and spinal nerves in general
4.0 describe anatomical properties and clinical implications for back muscles.
5.0 explain muscle contraction mechanism on the basis of Sliding Filament Theory.
6.0 define biophysical membrane model
7.0 explain steady state and equilibrium state for the cell
8.0 explain the link between structure and role of tissues.
9.0 for epithel tissue;
  9.1. describe the primary functions and characteristics of epithelial tissue
  9.2. distinguish different types of epithelium and cell to cell junctions
  9.3. define the types and functions of glandular epithelium
10.0 for muscle tissue;
  10.1. describe histological characteristics and relate main function
  10.2. summarize the main similarities and differences between three different types of muscle
  10.3. describe the embryology of muscular system
11.0 for connective tissue;
  11.1. explain the general specification
  11.2. identify the classification and specific properties of connective tissue types.
12.0 explain the morphological properties and functions of blood cells
13.0 define the correlation between ethics and philosophy in relation with main ethical theories.
14.0 for membrane potentials and action potentials
  14.1. explain how resting membrane potential is produced
  14.2. define depolarization, repolarization, and hyperpolarization and properties of action potentials.
15.0 describe the gross and microscopic structure of skeletal muscles and motor unit.
16.0 For contraction of skeletal muscle
  16.1. explain the role of Ach in the neuromuscular transmission
  16.2. explain what is meant by the sliding filament theory of contraction
  16.3. define the role of Ca2+ and the sarcoplasmic reticulum in excitation-contraction coupling
17.0 define the basics of immune response
18.0 explain case scenario related basic medical science topics in a clinical context.

SKILLS:

1.0 apply basic laboratory techniques and use equipment.
2.0 use biopsychosocial approach on medical practice.
3.0 display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.
4.0 present and write a scientific article

ATTITUDES

1.0. value teamwork, interpersonal skills, and significance of psychosocial issues

COMMITTEE III –TISSUE I
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINES	LECTURER / INSTRUCTOR	DISTRIBUTION of MCQs and SbMCQ			
			CE	FE	IE	TOTAL
1.0 - 4.0	ANATOMY	Dr. E. Söztutar	32	8	8	48
5.0, 7.0	BIOPHYSICS	Dr. B.Güvenç Tuna	16	5	5	26
8.0 -12.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	23	6	6	35
13.0	MEDICAL HISTORY & ETHICS	Dr. E. Vatanoğlu Lutz	7	2	2	11
14.0 -16.0	PHYSIOLOGY	Dr. B. Gemici Başol	14	4	4	22
17.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	7	2	2	11
18.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	**100**	**27/200#**	**27/200#**	**154**

LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS
		LPE
1.0 - 4.0 SKILLS 1.0	ANATOMY	35
8.0 – 12.0 SKILLS 1.0	HISTOLOGY & EMBRYOLOGY	40
14.0 -16.0 SKILLS 1.0	PHYSIOLOGY	25
	TOTAL	**100**

Total number of MCQs are 100 (each question has equal value)
Total value of LPE is equal to 100 points
CS = 95% of [90% CE (MCQ) + 10% (LPE)] + 5% of PBL-P
#In FE and ICE **27** out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:
MCQ: Multiple Choice Question
SbMCQ: Multiple Choice Questions which are based on a clinical, research or dailylife scenario
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
PBL-P: Evaluation of PBL Student's Performance

COMMITTEE III - TISSUE I
I. WEEK / 02 Jan –06 Jan 2023

<table>
<tr><th></th><th>Monday
02-Jan-2023</th><th>Tuesday
03-Jan-2023</th><th>Wednesday
04-Jan-2023</th><th>Thursday
05-Jan-2023</th><th>Friday
06-Jan-2023</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="3">PBL Session</td><td colspan="3">Clinical Skills Learning ICP I
Patient-Casualty Transportation / Bandaging Techniques
Serdar Özdemir/ Abuzer Kekeç</td><td>Lecture / Scientific Research And Project Course I
Scientific Study Design and Types of Scientific Research
Bayram Yılmaz/ Bilge Güvenç Tuna</td><td>Lecture
Histology of Connective Tissue; Extracellular Matrix
Alev Cumbul</td><td>Lecture
Histology of Connective Tissue; Cells
Alev Cumbul</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="2">Group A</td><td rowspan="2">Group B Sci. Res. & P. I Small Group Studies</td><td rowspan="2">Group B and C Independent Learning</td><td>Lecture / Scientific Research And Project Course I
How to Prepare and Write a Scientific Project?
Bayram Yılmaz/ Bilge Güvenç Tuna</td><td>Lecture
Histology of Connective Tissue Proper; Types
Alev Cumbul</td><td>Lecture
Histology of Muscle Tissue; General Specification
Alev Cumbul</td></tr>
<tr><td>11.00- 11.50</td><td>Lecture
Histology of Glandular Epithelium
Aylin Yaba Uçar</td><td>Lecture
Asymmetric Distribution& Transport of Ions
Bilge Güvenç Tuna</td><td>Lecture
Resting Membrane Potential: Ionic Balance
Bilge Güvenç Tuna</td></tr>
<tr><td>12.00- 12.50</td><td>Independent Learning</td><td>Independent Learning</td><td>Lecture
Asymmetric Distribution& Transport of Ions
Bilge Güvenç Tuna</td><td>Lecture
Nernst and Goldman Equations
Bilge Güvenç Tuna</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td colspan="3">Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td>Introductory Session
Introduction to Committee III
Secretary of Committee III</td><td colspan="3" rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Introduction to Arthrology
Erdem Söztutar</td><td>Lecture
Joints of the Upper Limb
Erdem Söztutar</td><td>Laboratory/Anatomy
Joints of the Upper Limb
Erdem Söztutar
Group A</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Histology of Covering Epithelium; Structure, Classification
Aylin Yaba Uçar</td><td>Lecture
Introduction to Arthrology
Erdem Söztutar</td><td>Lecture
Joints of the Upper Limb
Erdem Söztutar</td><td>Laboratory/Anatomy
Joints of the Upper Limb
Erdem Söztutar
Group B</td></tr>
<tr><td>16.00- 16.50</td><td>Lecture
Histology of Covering Epithelium; Surface Specification
Aylin Yaba Uçar</td><td colspan="2" rowspan="2">Independent Learning</td><td rowspan="2">Independent Learning</td><td>Lecture
Joints of the Upper Limb
Erdem Söztutar</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td><td>Independent Learning</td><td>Independent Learning</td></tr>
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COMMITTEE III - TISSUE I
II. WEEK / 09 Jan– 13 Jan 2023

<table>
<tr><th></th><th>Monday
9-Jan-2023</th><th colspan="3">Tuesday
10-Jan-2023</th><th>Wednesday
11-Jan-2023</th><th>Thursday
12-Jan-2023</th><th colspan="2">Friday
13-Jan-2023</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="2">PBL Session</td><td colspan="3">Clinical Skills Learning ICP I
Patient-Casualty Transportation / Bandaging Techniques
Serdar Özdemir / Erman Uygun</td><td>Independent Learning</td><td>Independent Learning</td><td>Independent Learning</td><td rowspan="2">Laboratory / Histology&Embryology
Histology of Epithelial Tissue
Alev Cumbul & Aylin Yaba Uçar
Group B</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Group B</td><td rowspan="3">Group C Sci. Res. & P. Small Group Studies</td><td rowspan="3">Group D and A Independent Learning</td><td>Lecture
Histology of Striated Skeletal Muscle
Alev Cumbul</td><td rowspan="3">PROGRESS TEST</td><td>Laboratory/Anatomy
Joints of Lower Limb
Erdem Söztutar
Group B</td></tr>
<tr><td>11.00- 11.50</td><td>Lecture
Action potential: Rheobase and Chronaxie
Bilge Güvenç Tuna</td><td>Laboratory/Anatomy
Joints of Lower Limb
Erdem Söztutar
Group A</td><td rowspan="2">Laboratory / Histology&Embryology
Histology of Epithelial Tissue
Alev Cumbul & Aylin Yaba Uçar
Group A</td></tr>
<tr><td>12.00- 12.50</td><td>Independent Learning</td><td>Lecture
Biophy sical Modeling of Membrane & Ion Channels
Bilge Güvenç Tuna</td><td>Independent Learning</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td colspan="3">Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td colspan="2">Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td>Lecture
Joints of the Lower Limb
Erdem Söztutar</td><td colspan="3" rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Joints of the Vertebral Column
Erdem Söztutar</td><td rowspan="3">PROGRESS TEST</td><td rowspan="4">Clinical Skills Learning ICP I
Patient-Casualty Transportation / Bandaging Techniques
Serdar Özdemir / Cem Şimşek
Group C</td><td rowspan="4">Group D Sci. Res. & P. I Small Group Studies</td><td rowspan="4">Independent Learning</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Joints of the Lower Limb
Erdem Söztutar</td><td>Lecture
Joints of the Axial Skeleton
Erdem Söztutar</td></tr>
<tr><td>16.00- 16.50</td><td>Lecture
Joints of the Low er Limb
Erdem Söztutar</td><td rowspan="2">Independent Learning</td><td>Lecture
Neuromuscular Transmission
Burcu Gemici Başol</td></tr>
<tr><td>17.00-17.50</td><td>Independent Learning</td><td>Lecture
Skeletal Muscle Phy siology
Burcu Gemici Başol</td><td>Independent Learning</td></tr>
</table>

COMMITTEE III - TISSUE I

III. WEEK / 16 Jan – 20 Jan 2023

<table>
<tr><th></th><th>Monday
16-Jan-2023</th><th>Tuesday
17-Jan-2023</th><th>Wednesday
18-Jan-2023</th><th>Thursday
19-Jan-2023</th><th>Friday
20-Jan-2023</th></tr>
<tr><td>09.00- 09.50</td><td>Laboratory / Physiology
EMG I
Group A
Burcu Gemici Başol</td><td colspan="3" rowspan="2">Clinical Skills Learning ICP I
Patient-Casualty Transportation / Bandaging Techniques
Serdar Özdemir/ Sezgin Sarıkaya</td><td>Laboratory / Physiology
EMG II
Group A
Burcu Gemici Başol</td><td>Lecture
Blood WBC, Blood Smear
Aylin Yaba Uçar</td><td>Independent Learning</td><td rowspan="2">Laboratory / Histology&Embryology
Connective Tissue and Blood
Alev Cumbul & Aylin Yaba Uçar
Group A</td></tr>
<tr><td>10.00- 10.50</td><td>Laboratory / Physiology
EMG I
Group B
Burcu Gemici Başol</td><td>Laboratory / Physiology
EMG II
Group B
Burcu Gemici Başol</td><td>Lecture
Blood WBC, Blood Smear
Aylin Yaba Uçar</td><td>Laboratory/Anatomy
Joints of the Lower Limb & Cranium
Erdem Söztutar
Group B</td></tr>
<tr><td>11.00- 11.50</td><td>Laboratory / Physiology
EMG I
Group C
Burcu Gemici Başol</td><td rowspan="2">Group D</td><td rowspan="2">Group E
Sci. Res. & P.
Small Group Studies</td><td rowspan="2">Group D and A
Independent Learning</td><td>Laboratory / Physiology
EMG II
Group C
Burcu Gemici Başol</td><td>Lecture
Introduction to My ology
Erdem Söztutar</td><td>Laboratory/Anatomy
Joints of the Lower Limb & Cranium
Erdem Söztutar
Group A</td><td rowspan="2">Laboratory / Histology&Embryology
Connective Tissue and Blood
Alev Cumbul & Aylin Yaba Uçar
Group B</td></tr>
<tr><td>12.00- 12.50</td><td>Laboratory / Physiology
EMG I
Group D
Burcu Gemici Başol</td><td>Laboratory / Physiology
EMG II
Group D
Burcu Gemici Başol</td><td>Lecture
Introduction to My ology
Erdem Söztutar</td><td>Independent Learning</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td colspan="3">Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td colspan="2">Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td>Lecture
Joints of the Cranium and Fontanelles
Erdem Söztutar</td><td colspan="3" rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Histology of Heart & Smooth Muscle
Alev Cumbul</td><td>Lecture
Introduction to Peripheral Nerv ous Sy stem
Erdem Söztutar</td><td rowspan="4">Clinical Skills Learning ICP I
Patient-Casualty Transportation / Bandaging Techniques
Serdar Özdemir/ Hande Candemir
Group E</td><td rowspan="4">Group A Sci. Res. & P. I Small Group Studies</td><td rowspan="4">Independent Learning</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Joints of the Cranium and Fontanelles
Erdem Söztutar</td><td>Lecture
Dev elopment of the Muscular Sy stem
Alev Cumbul</td><td>Lecture
Spinal Nerv es
Erdem Söztutar</td></tr>
<tr><td>16.00- 16.50</td><td>Lecture
Membrane Potentials and Action Potentials
Burcu Gemici Başol</td><td colspan="2" rowspan="2">Independent Learning</td><td rowspan="2">Independent Learning</td><td>Laboratory/Anatomy
Joints of the Vertebral Column and Axial Skeleton
Erdem Söztutar
Group B</td></tr>
<tr><td>17.00-17.50</td><td>Lecture
Membrane Potentials and Action Potentials
Burcu Gemici Başol</td><td>Laboratory/Anatomy
Joints of the Vertebral Column and Axial Skeleton
Erdem Söztutar
Group A</td></tr>
</table>

MIDTERM BREAK

23 JAN 2023 - 03 FEB 2023

COMMITTEE III - TISSUE I
IV. WEEK / 06 Feb – 10 Feb 2023

	Monday 06-Feb-2023	Tuesday 07-Feb-2023	Wednesday 08-Feb-2023		Thursday 09-Feb-2023	Friday 10-Feb-2022	
09.00- 09.50	**Lecture** Muscles of the Back *Erdem Söztutar*	**Lecture /ICP I** Lecture Introduction to Communication Skills *Özlem Tanrıöver*	**Lecture/ ICP I** The Medical Interview *Güldal İzbırak*		**Lecture** Smooth Muscle Physiology *Burcu Gemici Başol*	**Lecture** Physiology of Cardiac Muscle *Burcu Gemici Başol*	
10.00- 10.50	**Lecture** Muscles of the Back and Nape *Erdem Söztutar*	**Lecture/ ICP I** Basic Communication Skills *Arzu Akalın*	**Lecture/ ICP I** The Medical Interview *Güldal İzbırak*		**Lecture** Smooth Muscle Physiology *Burcu Gemici Başol*	**Lecture** Physiology of Cardiac Muscle *Burcu Gemici Başol*	
11.00- 11.50	**Lecture** What is Immunology? *Gülderen Yanıkkaya Demirel*	**Lecture/ ICP I** Basic Communication Skills *Arzu Akalın*	**Laboratory / Histology&Embryology** Histology of Muscle Tissue *Alev Cumbul & Aylin Yaba Uçar* *Group B*	**Independent Learning**	**PROGRAM IMPROVEMENT SESSION** *Phase Coordinator*	**Lecture** Muscle Mechanic; Mechanical Powers of Cardiac and Skeletal Muscle *Bilge Güvenç Tuna*	
12.00- 12.50	**Lecture** What is Immunology? *Gülderen Yanıkkaya Demirel*	**Lecture /ICP I** Giving Information *Özlem Tanrıöver*		**Laboratory / Anatomy** Muscles of the Back *Erdem Söztutar* *Group A*	**Lecture** Haematopoiesis *Aylin Yaba Uçar*	**Lecture** Biophysics of Smooth Muscle Contraction *Bilge Güvenç Tuna*	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**		**Lunch Break**	**Lunch Break**	
14.00- 14.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Histology&Embryology** Histology of Muscle Tissue *Alev Cumbul & Aylin Yaba Uçar* *Group A*	**Laboratory / Anatomy** Muscles of the Back *Erdem Söztutar* *Group B*	**Lecture** Contractile Machinery; Sliding Filament Theory *Bilge Güvenç Tuna*	**ELECTIVE WEEK I**	**Independent Learning**
15.00- 15.50				**Independent Learning**	**Lecture** Impulse Propagation *Bilge Güvenç Tuna*		
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Independent Learning**	**Independent Learning**		**Independent Learning**	**Independent Learning**	**ELECTIVE WEEK I**
17.00-17.50							

COMMITTEE III - TISSUE I
V. WEEK / 13 Feb – 17 Feb 2023

	Monday 13-Feb-2023	Tuesday 14-Feb-2023	Wednesday 15-Feb-2023	Thursday 16-Feb-2023	Friday 17-Feb-2022	
09.00- 09.50	**Lecture** Genetic Medicine *Elif Vatanoğlu Lutz*	**Independent Learning**	**Laboratory / Physiology** Smooth Muscle Contractility *Burcu Gemici Başol* *Group B*	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Burcu Gemici Başol* *Group C*	**Independent Learning**	
10.00- 10.50	**Lecture** History of our Future *Elif Vatanoğlu Lutz*		**Laboratory / Physiology** Smooth Muscle Contractility *Burcu Gemici Başol* *Group C*	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Burcu Gemici Başol* *Group D*		
11.00- 11.50	**Lecture** Heyday and Crisis (20 th C.) *Elif Vatanoğlu Lutz*	**ICP MIDTERM EXAM**	**Laboratory / Physiology** Smooth Muscle Contractility *Burcu Gemici Başol* *Group D*	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Burcu Gemici Başol* *Group A*		
12.00- 12.50	**Lecture** Antibiotics, Cancer Therapy *Elif Vatanoğlu Lutz*		**Laboratory / Physiology** Smooth Muscle Contractility *Burcu Gemici Başol* *Group A*	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Burcu Gemici Başol* *Group B*		
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	
14.00- 14.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Lecture** Cells and Tissues of Immune System *Gulderen Yanıkkaya Demirel*	**Lecture /ICP I** History Taking as a Clinical Skill *Güldal İzbırak*	**ELECTIVE WEEK II**	**Independent Learning**
15.00- 15.50			**Lecture** Cells and Tissues of Immune System *Gulderen Yanıkkaya Demirel*	**Lecture /ICP I** History Taking as a Clinical Skill *Güldal İzbırak*		
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**ELECTIVE WEEK II**
17.00-17.50						

COMMITTEE III - TISSUE I
VI. WEEK / 20 Feb – 24 Feb 2023

	Monday 20-Feb-2023	Tuesday 21-Feb-2023	Wednesday 22-Feb-2023	Thursday 23-Feb-2023	Friday 24-Feb-2023	
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	
10.00- 10.50			**Assessment Session** Histology&Embryology, Physiology, Anatomy (Practical Exam)		**Assessment Session** **Committee III** (MCQ)	
11.00- 11.50			**Independent Learning**			
12.00- 12.50						
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Program Evaluation Session** Review of the Exam Questions Evaluation of the Committee III Program *Head of Committee*	
14.00- 14.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Independent Learning**	**Independent Learning**	**ELECTIVE WEEK III**	**Independent Learning**
15.00- 15.50						
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Independent Learning**			**Independent Learning**	**ELECTIVE WEEK III**
17.00-17.50						

MED 104-COMMITTEE IV - TISSUE II

DISTRIBUTION of LECTURE HOURS

Feb 27, 2023 - April 28, 2023

COMMITTEE DURATION: 8 WEEKS

COURSES					
	BASIC MEDICAL SCIENCES I	**THEO.**	**PRAC./LAB.**	**SMALL GROUPS DISCUSSION**	**TOTAL**
	DISCIPLINE/COMPONENTS				
	ANATOMY	27	2Grx11H	0	38
	BEHAVIORAL SCIENCES	14	0	0	14
	BIOCHEMISTRY	32	4Grx2H	0	34
	BIOPHYSICS	6	0	0	6
	BIOSTATISTICS	12	0	0	12
	HISTOLOGY & EMBRYOLOGY	8	2Grx2H	0	10
MED 104	MEDICAL BIOLOGY	7	4Grx1H	0	8
	IMMUNOLOGY	4	0	0	4
	SCIENTIFIC RESEARCH AND PROJECT	0	0	5GrX3H 4Grx3H	6
	PBL			6	6
	TOTAL	**110**	**16**	**12**	**138**
MED 103	**ANATOMICAL DRAWING**	0	14	0	14
MED 102	**INTRODUCTION to CLINICAL PRACTICE-I**	0	5GrX4H 4Grx4H	0	8
HTR 302	**ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	16	0	0	16
TKL 202	**TURKISH LANGUAGE & LITERATURE**	16	0	0	16
MED 611-632	**FREE ELECTIVE COURSE**	14	0	0	14
	INDEPENDENT LEARNING HOURS				**107**

Coordination Committee	Head	İnci ÖZDEN, PhD, Prof.
	Secretary	Seda Güleç YILMAZ, PhD, Assist. Prof.
	Member	Deniz KIRAÇ, PhD, Assoc. Prof.
	Member	Aylin YABA UÇAR, PhD, Assoc. Prof.

COMMITTEE IV – TISSUE II
LECTURERS

COURSES		
MED 104-BASIC MEDICAL SCIENCES I	**DISCIPLINE**	**LECTURES**
	ANATOMY	Erdem SÖZTUTAR, MD. Assist. Prof.
	BEHAVIORAL SCIENCES	Instructor
	BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof.
		Jale ÇOBAN, MD, Prof.
		Müge KOPUZ ALVAREZ NOVAL, PhD, Assist. Prof.
	BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	BIOSTATISTICS	E. Çiğdem KELEŞ, PhD, Assist. Prof.
	HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Assoc. Prof.
		Alev CUMBUL, PhD, Assist. Prof.
	MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
		Soner DOĞAN, PhD, Prof.
		Deniz KIRAÇ, PhD, Assoc. Prof.
		Seda Güleç YILMAZ, PhD, Assoc. Prof.
	IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof.
	SCIENTIFIC RESEARCH AND PROJECT I	Bayram YILMAZ, PhD, Prof.
		Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
MED 102- INTRODUCTION to CLINICAL PRACTICE I (ICP-I)		Güldak İZBIRAK, MD, Prof.
		Özlem TANRIÖVER, MD, Prof.
		Arzu AKALIN, MD, Assist. Prof.
		Serdar ÖZDEMİR, MD, PhD, Assist. Prof.
MED 103- ANATOMICAL DRAWING		Refik AZİZ, PhD, Assist. Prof.
HTR 302- ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY		Instructor
TKL 202- TURKISH LANGUAGE & LITERATURE		Instructor
AFYA 102- TURKISH LANGUAGE		Instructor

COMMITTEE IV – TISSUE II
AIM AND LEARNING OBJECTIVES

AIM

1. **to convey** basic terms and concepts for anatomy, embryology, histology, immunology, biostatistics, biophysics, biochemistry, behavioral sciences, and medical biology.
2. **to convey** knowledge on four fundamental tissues forming the body, cells forming these tissues and the intercellular material.
3. **to convey** knowledge on system-specific (upper extremities, back and chest area muscles, vascular and nervous innervations) anatomy and its clinical applications.
4. ***to convey*** knowledge on basic metabolic pathways of the body.

LEARNING OBJECTIVES

KNOWLEDGE

At the end of this committee, student should be able to;

1.0 describe anatomical properties of the upper extremity and axial muscles.
2.0 describe the clinical implications of the anatomical features of the upper extremity and axial muscles.
3.0 describe the Milestones of development (Pregnancy through old age), Piaget's cognitive development theory,approaches on personality development: Psychoanalytic-Theory and Defense mechanisms, Humanistic Theories
4.0 describe the biology of behavior including genetic influences, behavioral neuroanatomy and neurotransmission; substance related disorders
5.0 define consciousness, stages of sleep and sleep-related disorders, and neurophysiology of perception
6.0 explain forms of learning (sensitization/habituation, sensory and motor learning, classical and operant conditioning, reinforcement, extinction, social-cognitive learning, observational learning) and neural bases of memory formation
7.0 for biomolecules;
  7.1. define structural and biochemical functions of carbohydrates, lipids, proteins and nucleotides
8.0 for enzymes;
  8.1. list basic properties and classes of enzymes,
  8.2. describe regulatory functions of enzymes,
  8.3. define the functions of enzymes in different metabolic pathways
9.0 describe the ATP production by substrate level phosphorylation and oxidative phosphorylation
10.0 for biophysics,
  10.1. explain basic physical properties of biomaterials (such as bone and vessels)
  10.2. know basic properties of digital biomedical signals
11.0 for main concepts of biostatistics
  11.1. explain the main concepts of statistic
  11.2. list the names of the data types
  11.3 list the types of the graphics
  11.4. describe a frequency distribution
12.0 list the types of descriptive statistics for cartilage and bone tissue;
13.0. For cartilage, bone and adipose tissue;
  13.1. explain general microscopic characteristics
  13.2. summarize the main similarities and differences between different types of cartilage
  13.3. explain histological characteristics of the bone cells
  13.4. describe the main similarities and differences between different types of bone
  13.5. explain steps of the ossification types
  13.6. explain the developmental stages of bone formation
14.0. For nervous tissue;

14.1. define the general histological structure of nervous tissue
14.2. define the structure and function of neuronal and glial cells.
15.0 recognize the components of extracellular matrix and their interactions with each other.
16.0 define the basics of immune response
17.0 explain case scenario related basic medical science topics in a clinical context.

SKILLS

1.0 apply basic laboratory techniques and use equipments.
2.0 for biostatistics,
2.1 apply descriptive statistics for a given data set.
2.2. demostrate a given data set using graphics.
3.0 use biopsychosocial approach on medical practice.
3.1. display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.
3.2. present and write a scientific article

ATTITUDES

1.0. value teamwork, interpersonal skills, and significance of psychosocial issues

COMMITTEE IV – TISSUE II
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINES	LECTURER / INSTRUCTOR	DISTRIBUTION of MCQs and SbMCQ			
			CE	FE	IE	TOTAL
1.0 – 2.0	ANATOMY	Dr. E. Söztutar	24	12	12	48
3.0 – 6.0	BEHAVIORAL SCIENCE	Behavioral Science Lecture	13	6	6	25
7.0 – 9.0	BIOCHEMISTRY	Dr. İ. Özden	29	15	15	59
10.0	BIOPHYSICS	Dr. B.G. Tuna	5	2	2	9
11.0,12.0	BIOSTATISTICS	Dr. Ç. Keleş	11	5	5	21
13.0, 14.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	7	4	4	15
15.0	MEDICAL BIOLOGY	Dr. T. İsbir	6	3	3	12
16.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	4	2	2	8
17.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	**100**	**49/200#**	**49/200#**	**198**

LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS
		LPE
1.0 – 3.0 SKILLS. 1.0	ANATOMY	50
8.0 – 10.0 SKILLS. 1.0	BIOCHEMISTRY	10
14.0 – 15.0 SKILLS. 1.0	HISTOLOGY & EMBRYOLOGY	30
16.0 SKILLS. 1.0	MEDICAL BIOLOGY	10
	TOTAL	**100**

Total number of MCQs are 89 (each question has equal value)
Total value of LPE is equal to 100 points
CS = 95% of [90% CE (MCQ+EQ) + 10% (LPE)] + 5% of PBL-P
#In FE and ICE **49** out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:
MCQ: Multiple Choice Question
SbMCQ: Multiple Choice Questions w hich are based on a clinical, research or daily life scenario
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
PBL-P: Evaluation of PBL Student's Performance

COMMITTEE IV -TISSUE II - WEEK I /
27 Feb – 3 March 2023

	Monday 27-Feb-2023	Tuesday 28-Feb-2023			Wednesday 1-Mar-2023	Thursday 2-Mar-2023	Friday 3-Mar-2023	
09.00- 09.50	PBL Session	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver &Arzu Akalın*			**Lecture** Glycerophospholipids, Sphingophospholipids *İnci Özden*	**Lecture** Extracellular Matrix *Turgay İsbir*	**Lecture** Histology of Adipose Tissue *Alev Cumbul*	
10.00- 10.50		*Group A*	Sci. Res. & P. Small Group Studies Group B	Independent Learning	**Lecture** Glycerophospholipids, Sphingophospholipids *İnci Özden*	**Lecture** Extracellular Matrix *Turgay İsbir*	**Lecture** Histology of Cartilage Tissue *Alev Cumbul*	
11.00- 11.50					**Lecture** Muscles of the Shoulder Girdle *Erdem Söztutar*	**Lecture** Muscles of the Arm *Erdem Söztutar*	**Laboratory / Anatomy** Muscles of the Shoulder Girdle and Axilla *Erdem Söztutar* **Group A**	
12.00- 12.50	**Introductory Session** Introduction to Committee IV ***Head of Committee IV***				**Lecture** Muscles of the Shoulder Girdle and Axilla *Erdem Söztutar*	**Lecture** Muscles of the Arm *Erdem Söztutar*	**Laboratory / Anatomy** Muscles of the Shoulder Girdle and Axilla *Erdem Söztutar* **Group B**	
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Common Compulsory Course** Anatomical Drawing Refik Aziz			Independent Learning	**Lecture** Main Concepts in Biostatistics *E. Çiğdem Keleş*	ELECTIVE WEEK IV	Independent Learning
15.00- 15.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Common Compulsory Course** Anatomical Drawing Refik Aziz			Independent Learning	**Lecture** Main Concepts in Biostatistics *E. Çiğdem Keleş*		
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	Independent Learning			Independent Learning	**Behavioral Science / Lecture** Life Cycle: Pregnancy through Preschool *Instructors*	Independent Learning	ELECTIVE WEEK IV
17.00-17.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	Independent Learning			Independent Learning	**Behavioral Science / Lecture** Life Cycle; School Age, Adolescence and Adulthood ***Instructors***		

COMMITTEE IV - TISSUE II - WEEK II /
6 – 10 March 2023

	Monday 6-Mar-2023	Tuesday 7-Mar -2023			Wednesday 8-Mar -2023	Thursday 9-Mar-2023	Friday 10-Mar-2023	
09.00- 09.50	PBL Session	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver &Arzu Akalın*			**Lecture** Classif ication of Carbohy drates, General Features of Carbohy drates *İnci Özden*	**Lecture** Extracellular Matrix *Turgay İsbir*	**Lecture** Gly cosaminogly cans, Structures and Functions *İnci Özden*	
10.00- 10.50		***Group B***	**Sci. Res. & P. Small Group Studies Grou p C**	**Independent Learning**	**Lecture** Monosaccharide Deriv ativ es, Disaccharides, Poly saccharides, Starch, Gly cogen *İnci Özden*	**Lecture** Extracellular Matrix *Turgay İsbir*	**Lecture** Monosaccharide Deriv ativ es, Disaccharides, Poly saccharides, Starch, Gly cogen *İnci Özden*	
11.00- 11.50					**Lecture** Muscles of the Forearm *Erdem Söztutar*	**Lecture** Muscles of the Hand *Erdem Söztutar*	**Laboratory / Anatomy** Muscles of the Forearm *Erdem Söztutar* **Group A**	
12.00- 12.50	**Independent Learning**				**Lecture** Muscles of the Forearm *Erdem Söztutar*	**Lecture** Muscles of the Hand *Erdem Söztutar*	**Laboratory / Anatomy** Muscles of the Forearm *Erdem Söztutar* **Group B**	
13.00- 13.50	**Lunch Break**	**Lunch Break**			**Lunch Break**	**Lunch Break**	**Lunch Break**	
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Common Compulsory Course** Anatomical Drawing Ref ik Aziz			**Lecture** Frequency Distributions *E. Çiğdem Keleş*	**Lecture** Histology of Bone Tissue; Microscopic Structure *Alev Cumbul*	**ELECTIVE WEEK V**	**Independent Learning**
15.00- 15.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Common Compulsory Course** Anatomical Drawing Ref ik Aziz			**Lecture** Frequency Distributions *E. Çiğdem Keleş*	**Lecture** Histology of Bone Tissue; Ossif ication *Alev Cumbul*		
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Lecture** Digital recording of biomedical signals *Bilge Güvenç Tuna*			**Laboratory / Anatomy** Muscles of the Arm *Erdem Söztutar* **Group B**	**Behavioral Science / Lecture** The Biological Bases of Behav ior *Instructors*	**Independent Learning**	**ELECTIVE WEEK V**
17.00-17.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Lecture** Mechanical Properties of Biomaterials *Bilge Güvenç Tuna*			**Laboratory / Anatomy** Muscles of the Arm *Erdem Söztutar* **Group A**	**Behavioral Science / Lecture** The Biological Bases of Behav ior *Instructors*		

COMMITTEE IV - TISSUE II - WEEK III /
13-17 March 2023

	Monday 13-Mar-2023	Tuesday 14-Mar-2023	Wednesday 15-Mar-2023	Thursday 16-Mar-2023	Friday 17-Mar-2023	
09.00- 09.50	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver &Arzu Akalın &*	**Independent Learning**	**Lecture** Classification of Lipids, General Features of Lipids *İnci Özden*	**Lecture** Extracellular Matrix ***Turgay İsbir***	**Lecture** Saturated and Unsaturated Fatty Acids, Essential Fatty Acids *İnci Özden*	
10.00- 10.50	***Group C*** / **Scı. Res. & P. I Small Group Studies Group D** / **Independent Learning**		**Lecture** Classif ication of Lipids, General Features of Lipids *İnci Özden*	**Lecture** Biology of Oxidative Stress ***Turgay İsbir***	**Lecture** Saturated and Unsaturated Fatty Acids, Essential Fatty Acids *İnci Özden*	
11.00- 11.50			**Lecture** Brachial Plexuss *Erdem Söztutar*	**Lecture** Digital recording of biomedical signals *Bilge Güvenç Tuna*	**Lecture** Cerv ical Muscles and Triangles Erdem Söztutar	
12.00- 12.50			**Lecture** Brachial Plexus *Erdem Söztutar*	**Lecture** Stress-Strain, Stif f ness *Bilge Güvenç Tuna*	**Lecture** Cerv ical Muscles Erdem Söztutar	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Independent Learning**	**Lecture** Graphics *E. Çiğdem Keleş*	**Lecture** Nerv es of the Upper Limb *Erdem Söztutar*	**ELECTIVE WEEK VI**	**Independent Learning**
15.00- 15.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*		**Lecture** Measures of Central Tendencies *E. Çiğdem Keleş*	**Lecture** Vasculature of the Upper Limb *Erdem Söztutar*		
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*		**Laboratory / Anatomy** Muscles of the Hand *Erdem Söztutar* **Group B**	**Behavioral Science / Lecture** Lif e Cy cle; Aging, Death and Bereav ement *Instructors*	**Independent Learning**	**ELECTIVE WEEK VI**
17.00-17.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*		**Laboratory / Anatomy** Muscles of the Hand *Erdem Söztutar* **Group A**	**Behavioral Science / Lecture** Lif e Cy cle; Aging, Death and Bereav ement *Instructors*		

COMMITTEE IV - TISSUE II - WEEK IV / 20–24 Mar 2023

	Monday 20-Mar-2023	Tuesday 21-Mar-2023	Wednesday 22-Mar-2023	Thursday 23-Mar-2023	Friday 24-Mar-2023
09.00- 09.50	**Lecture** Eicosanoids *İnci Özden*	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver &Arzu Akalın*	**Lecture** Isoprene Derivatives, Steroids, Bile Acids *İnci Özden*	**Lecture** *Nucleotides* *İnci Özden*	**Lecture** Histology of Nerve Tissue: General Specification *Aylin Yaba Uçar*
10.00- 10.50	**Lecture** Eicosanoids *İnci Özden*	**Group D** / **Group E Sci. R. And P.I Small Group Studies** / **Group A,D and E Independent Learning**	**Lecture** Isoprene Derivatives, Steroids, Bile Acids *İnci Özden*	**Lecture** ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation *İnci Özden*	**Lecture** Histology of Nerve Tissue: Neuron Types *Aylin Yaba Uçar*
11.00- 11.50	**Laboratory / Anatomy** Brachial Plexus, Nerves and Vasculature of the Upper Limb *Erdem Söztutar* **Group B**		**Lecture** Muscles of the Head and Scalp ***Erdem Söztutar***	**Lecture** Development of the Axial Skeleton and Limb *Alev Cumbul*	**Lecture** Amino Acids, General Features, Classification ***İnci Özden***
12.00- 12.50	**Laboratory / Anatomy** Brachial Plexus, Nerves and Vasculature of the Upper Limb *Erdem Söztutar* **Group A**		**Lecture** Muscles of the Head and Scalp ***Erdem Söztutar***	***Lecture*** Histology of Nerve Tissue: Glia Types *Aylin Yaba Uçar*	**Lecture** Amino Acids, General Features, Classification ***İnci Özden***
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver &Arzu Akalın*	**Lecture** Cervical Plexus ***Erdem Söztutar***	**ELECTIVE Midterm Exam** / **Independent Learning**
15.00- 15.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Group E** / **Group A Sci. R. And P.I Small Group Studies** / **Group A,B and C Independent Learning**	**Lecture** Nerves and Vasculature of the Neck ***Erdem Söztutar***	
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Laboratory / Anatomy** Cervical Muscles and Triangles *Erdem Söztutar* **Group A**		**Behavioral Science / Lecture** Sleep and Sleep Disorders ***Instructors***	**Independent Learning** / **ELECTIVE Midterm Exam**
17.00-17.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Laboratory / Anatomy** Cervical Muscles and Triangles *Erdem Söztutar* **Group B**		**Behavioral Science / Lecture** Substance Releated Disorders ***Instructors***	

COMMITTEE IV - TISSUE II - WEEK V / 27 March-31 March 2023

	Monday 27-Mar-2023	Tuesday 28-Mar -2023			Wednesday 29-Mar-2023		Thursday 30-Mar-2023	Friday 31-Mar -2023	
09.00- 09.50	**Laboratory / Anatomy** Muscles of Head and Scalp *Erdem Söztutar* **Group B**	**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Özlem Tanrıöver &Arzu Akalın & Serdar Özdemir*			**Laboratory / Histology&Embryology** Histology of Cartilage Tissue and Bone Tissue *Alev Cumbul & Aylin Yaba Uçar* **Group B**	**Independent Learning**	**Independent Learning**	**Laboratory / Anatomy** Nerv es and Vasculature of the Head *Erdem Söztutar* **Group B**	
10.00- 10.50	**Laboratory / Anatomy** Muscles of Head and Scalp *Erdem Söztutar* **Group A**	**Group A**	**Group B Sc ı. R. And P.I Small Group Studies**	**Group A,B and C Independent Learning**		**Laboratory / Anatomy** Cerv ical Plexus, Nerv es and Vasculature of the Neck *Erdem Söztutar* **Group A**	**Lecture** Biology of Oxidative Stress ***Turgay İsbir***	**Laboratory / Anatomy** Nerv es and Vasculature of the Head *Erdem Söztutar* **Group A**	
11.00- 11.50	**Lecture** Nerves of the Head ***Erdem Söztutar***				**Laboratory / Histology&Embryology** Histology of Cartilage Tissue and Bone Tissue *Alev Cumbul & Aylin Yaba Uçar* **Group A**	**Laboratory / Anatomy** Cerv ical Plexus, Nerv es and Vasculature of the Neck *Erdem Söztutar* **Group B**	**Lecture** Muscles of the Abdominal Wall and Inguinal Canal *Erdem Söztutar*	**Lecture** Elasticity *Bilge Güvenç Tuna*	
12.00- 12.50	**Lecture** Vasculature of the Head ***Erdem Söztutar***					**Independent Learning**	**Lecture** Muscles of the Abdominal Wall *Erdem Söztutar*	**Lecture** Shear Stress, Poisson's Law *Bilge Güvenç Tuna*	
13.00- 13.50	**Lunch Break**	**Lunch Break**			**Lunch Break**		**Lunch Break**	**Lunch Break**	
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Lecture** International Enzyme Commission Classification of Enzymes *İnci Özden*			***Lecture*** Triacylglycerols *İnci Özden*		**Lecture** Innate Immunity *Gülderen Yanıkkaya Demirel*	**ELECTIVE WEEK VIII**	**Independent Learning**
15.00- 15.50		**Lecture** ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation *İnci Özden*			***Lecture*** Triacylglycerols *İnci Özden*		**Lecture** Innate Immunity *Gülderen Yanıkkaya Demirel*		
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Common Compulsory Course** Anatomical Drawing Ref ik Aziz			**Independent Learning**		**Behavioral Science / Lecture** Psychoanalythic Theory and Defense Mechanism *Instructors*	**Independent Learning**	**ELECTIVE WEEK VIII**
17.00-17.50					**Independent Learning**		**Behavioral Science / Lecture** Psychoanalythic Theory and Defense Mechanism *Instructors*		

COMMITTEE IV - TISSUE II
WEEK VI / 3-7 April 2023

	Monday 3-Apr -2023	Tuesday 4-Apr -2023	Wednesday 5-Apr -2023	Thursday 6-Apr -2023	Friday 7-Apr -2023
09.00- 09.50	**Lecture** Glycoproteins, Collagen, α keratin *İnci Özden*	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Özlem Tanrıöver &Arzu Akalın & Serdar Özdemir*	**Independent Learning**	**Laboratory / Med. Biology** Oxidative Stress and Antioxidant System *Turgay İsbir* **Group D** **Laboratory / Biochemistry** Spectrophotometry *Jale Çoban & Müge Kopuz* **Group A**	**Laboratory / Anatomy** Muscles of Thoraco-Abdominal Wall *Erdem Söztutar* **Group A**
10.00- 10.50	**Lecture** Glycoproteins, Collagen, α keratin *İnci Özden*	**Group B** / **Group C Scı. R. And P.I Small Group Studies** / **Group C,D and E Independent Learning**	**Independent Learning**	**Group A** / **Group D**	**Laboratory / Anatomy** Muscles of Thoraco-Abdominal Wall *Erdem Söztutar* **Group B**
11.00- 11.50	**Lecture** *Nucleotides* *İnci Özden*		**Independent Learning**	**Group B** / **Group C**	**Lecture** Measures of Central Dispersion *E. Çiğdem Keleş*
12.00- 12.50	**Lecture** Muscles of the Thoracic Wall *Erdem Söztutar*		**Lecture** Spectrophotometry *Jale Çoban & Müge Kopuz*	**Group C** / **Group B**	**Lecture** Rates and Ratios *E. Çiğdem Keleş*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Lecture** Primary, Secondary, Tertiary, Quaternary Structures of Proteins *İnci Özden*	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Özlem Tanrıöver &Arzu Akalın & Serdar Özdemir*	**Lecture** Measures of Central Tendencies *E.Çiğdem Keleş*	**ELECTIVE WEEK IX** / **Independent Learning**
15.00- 15.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Lecture** Primary, Secondary, Tertiary, Quaternary Structures of Proteins *İnci Özden*	**Group C** / **GroupD Scı. R. And P.I Small Group Studies** / **Group C,D and E Independent Learning**	**Lecture** Measures of Central Tendencies *E.Çiğdem Keleş*	
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Common Compulsory Course** Anatomical Drawing Refik Aziz		**Behavioral Science / Lecture** Sleep and Sleep Disorders *Instructors*	**Independent Learning** / **ELECTIVE WEEK IX**
17.00-17.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Common Compulsory Course** Anatomical Drawing Refik Aziz		**Behavioral Science / Lecture** Substance Releated Disorders ***Instructors***	

COMMITTEE IV - TISSUE II
WEEK VII / 10- 14 Apr 2023

	Monday 10-Apr -2023	Tuesday 11-Apr -2023			Wednesday 12-Apr-2023		Thursday 13 Apr-2023	Friday 14-Apr-2023	
09.00- 09.50	**Lecture** Enzymes, Kinetics,Regulatory Enzymes *İnci Özden*	**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Özlem Tanrıöver &Arzu Akalın & Serdar Özdemir*			**Lecture** Oxidative Decarboxylation İnci Özden		**Lecture** Measures of Central Dispersion *E. Çiğdem Keleş*	**Independent Learning**	
10.00- 10.50	**Lecture** Enzymes, Kinetics, Regulatory Enzymes *İnci Özden*	**Group D**	**Group E** **Scı. R. And P.I** **Small Group Studies**	**Group A,B and E** **Independent Learning**	**Independent Learning**		**Lecture** Standardization of Disease Rates *E. Çiğdem Keleş*		
11.00- 11.50	**Lecture** *Nerves and Vasculature of the Thoracic Wall* *Erdem Söztutar*				**Independent Learning**		***Lecture*** *Adaptive Immunity* *Gülderen Yanıkkaya Demirel*		
12.00- 12.50	**Lecture** *Nerves and Vasculature of the Abdominal Wall* *Erdem Söztutar*				**Independent Learning**		***Lecture*** *Adaptive Immunity* *Gülderen Yanıkkaya Demirel*		
13.00- 13.50	**Lunch Break**	**Lunch Break**			**Lunch Break**		**Lunch Break**	**Lunch Break**	
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) ***Instructor***	**Lecture** International Enzyme Commission Classification of Enzymes İnci Özden			**Independent Learning**	**Laboratory / Histology&Embryology** Histology of Nerve Tissue *Alev Cumbul & Aylin Yaba Uçar* **Group A**	**Discussion (Large Group)** Overview ***Erdem Söztutar***	**ELECTIVE WEEK X**	**Independent Learning**
15.00- 15.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) ***Instructor***	**Lecture** ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation İnci Özden			**Laboratory / Anatomy** Nerv es and Vasculature of Thoraco-Abdominal Wall *Erdem Söztutar* **Group B**		**Discussion (Large Group)** Overview ***Erdem Söztutar***		
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*			**Laboratory / Anatomy** Nerv es and Vasculature of Thoraco-Abdominal Wall *Erdem Söztutar* **GroupA**	**Laboratory / Histology&Embryology** Histology of Nerve Tissue *Alev Cumbul & Aylin Yaba Uçar* **Group B**	**Behavioral Science / Lecture** Perception ***Instructors***	**Independent Learning**	**ELECTIVE WEEK X**
17.00-17.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) ***Instructor***	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*			**Independent Learning**		**Behavioral Science / Lecture** Emotion ***Instructors***		

COMMITTEE IV - TISSUE II
VIII. WEEK 17-21 Apr 2023

<table>
<tr><th></th><th>Monday
17-Apr-2023</th><th>Tuesday
18-Apr-2023</th><th>Wednesday
19-Apr-2023</th><th>Thursday
20-Apr-2023</th><th>Friday
21-Apr-2023</th></tr>
<tr><td>09.00-
09.50</td><td rowspan="3">Independent Learning</td><td rowspan="3">Independent Learning</td><td rowspan="3">Independent Learning</td><td rowspan="3">Independent Learning</td><td rowspan="8">RELIGIOUS HOLIDAY</td></tr>
<tr><td>10.00-
10.50</td></tr>
<tr><td>11.00-
11.50</td></tr>
<tr><td>12.00-
12.50</td><td rowspan="2">Lunch Break</td><td rowspan="2">Lunch Break</td><td rowspan="2">Lunch Break</td><td rowspan="2">Lunch Break</td></tr>
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13.50</td></tr>
<tr><td>14.00-
14.50</td><td rowspan="2">Common Compulsory Course
Atatürk's Principles &
History Of Modern Turkey
(HTR 302)
Instructor</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="4">Independent Learning</td><td rowspan="4">RELIGIOUS HOLIDAY</td></tr>
<tr><td>15.00-
15.50</td></tr>
<tr><td>16.00-
16.50</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature (TKL202)
Instructor</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td></tr>
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COMMITTEE IV - TISSUE II
IX. WEEK 24-28 Apr 2023

<table>
<tr><th></th><th>Monday
24-Apr-2023</th><th>Tuesday
25-Apr-2023</th><th>Wednesday
26-Apr-2023</th><th>Thursday
27-Apr-2023</th><th colspan="2">Friday
28-Apr-2023</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td>Independent Learning</td><td rowspan="4">Independent Learning</td><td colspan="2">Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td>Assessment Session
Histology&Embryology
Medical Biology
Anatomy
Biochemistry
(Practical Exam)</td><td colspan="2" rowspan="2">Assessment Session
Committee IV
(MCQ)</td></tr>
<tr><td>11.00- 11.50</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>12.00- 12.50</td><td colspan="2">Program Evaluation Session
Review of the Exam Questions
Evaluation of the Committee IV Program
Head of Committee</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td colspan="2">Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Common Compulsory Course
Atatürk's Principles &
History Of Modern Turkey
(HTR 302)
Instructor</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="3">Independent Learning</td><td rowspan="3">Independent Learning</td><td rowspan="2">ELECTIVE
WEEK XI</td><td rowspan="2">Independent
Learning</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature (TKL202)
Instructor</td><td rowspan="2">Independent Learning</td><td rowspan="2">Independent
Learning</td><td rowspan="2">ELECTIVE
WEEK XI</td></tr>
<tr><td>17.00-17.50</td></tr>
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MED 104 - COMMITTEE V - ENERGY and METABOLISM

DISTRIBUTION of LECTURE HOURS

May 2, 2023 – June 9, 2023

COMMITTEE DURATION: 6 WEEKS

COURSES		THEO.	PRAC./LAB	SMALL GROUPS DISCUSSION	TOTAL
MED 104	**BASIC MEDICAL SCIENCES I**				
	DISCIPLINE/COMPONENTS				
	ANATOMY	14	2Grx5H	0	19
	BEHAVIORAL SCIENCES	10	0	0	10
	BIOCHEMISTRY	22	4Grx2H	0	24
	BIOSTATISTICS	12	4Grx1H	0	13
	HISTOLOGY and EMBRYOLOGY	9	2Grx2H	0	11
	MEDICAL BIOLOGY	7	0	0	7
	IMMUNOLOGY	4	0	0	4
	SCIENTIFIC RESEARCH AND PROJECT	0	0	1GRx3H 5GrX3H	6
	PBL	0	0	6	6
	TOTAL	**77**	**10**	**12**	**99**
MED 102	**INTRODUCTION to CLINICAL PRACTICE- I**	1	1GRx4H 5GrX3H		8
MED 103	**ANATOMICAL DRAWING**	0	6		6
HTR 302	**ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	4	0		4
TKL 202	**TURKISH LANGUAGE & LITERATURE**	4	0		4
MED 611-632	**FREE ELECTIVE COURSE**	6	0		6
	INDEPENDENT LEARNING HOURS				**82**

Coordination Committee	Head	Alev CUMBUL, PhD, Assist. Prof.
	Secretary	Aikaterini PANTELI, MD, Assist. Prof.
	Member	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	Member	Erdem Söztutar, MD, Assist. Prof.

COMMITTEE V - ENERGY AND METABOLISM

LECTURERS

COURSES	DISCIPLINES	LECTURERS
MED 104-BASIC MEDICAL SCIENCES I	ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof
	BEHAVIORAL SCIENCES	Instructor
	BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof.
		Jale SARIÇOBAN, MD, Prof.
		Müge KOPUZ ALVAREZ NOVAL, PhD, Assist. Prof.
	BIOSTATISTICS	E. Çiğdem KELEŞ, PhD, Assist. Prof.
	HISTOLOGY & EMBRYOLOGY	Aylin Yaba UÇAR, PhD, Assoc. Prof.
		Alev CUMBUL, PhD, Assist. Prof.
	IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof.
	MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
		Soner DOĞAN, PhD, Prof.
		Deniz KIRAÇ, PhD, Assoc. Prof.
		Seda Güleç YILMAZ, PhD, Assoc. Prof.
	SCIENTIFIC RESEARCH AND PROJECT I	Bayram YILMAZ, PhD, Prof.
		Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
MED 102-INTRODUCTION to CLINICAL PRACTICE I (ICP-I)		Güldal İzbırak, MD, Prof.
		Özlem TANRIÖVER, MD, Prof.
		Arzu AKALIN, MD, Assist. Prof.
		Serdar ÖZDEMİR, MD, Assist. Prof.
		Cem ŞİMŞEK, MD, Assist. Prof.
		Gökhan GENÇER, MD. Assist. Prof.
MED 103-ANATOMICAL DRAWING		Refik AZİZ, PhD, Assist. Prof.
HTR 302-ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY		Instructor
TKL 202-TURKISH LANGUAGE & LITERATURE		Instructor
AFYA 102-TURKISH LANGUAGE		Instructor

COMMITTEE V - ENERGY AND METABOLISM
AIMS AND LEARNING OBJECTIVES

AIM

1.0 ***to convey*** basic terms and concepts of medical biology, biostatistics, embryology, histology, immunology, biochemistry, behavioral sciences, and medical biology.
2.0 ***to convey*** knowledge on basic energy mechanisms of the body.
3.0 ***to convey*** knowledge on the process from zygote to formation of organs**.**
4.0 ***to convey*** knowledge on system-specific (lower extremities, muscles, vascular and nervous innervations) anatomy and its clinical applications.

LEARNING OBJECTIVES

At the end of this committee, student should be able to;

KNOWLEDGE

1.0 describe anatomical properties of the lower extremity muscles.
2.0 describe the clinical implications of the anatomical features of the lower extremity muscles..
3.0 understand the physiological bases of emotions and related behavior, human sexuality and the influences of culture in illness;
4.0 define abnormality; compare and contrast psychological disorders on the DSM system; determination of violence and abuse; legal and ethical issues in medicine and appropriate physician-patient relationship.
5.0 explain ATP synthesis in the human organism and enzymatic system that this synthesis occurs by.

6.0 list enzymes involved in blood clotting and their functions.
7.0 explain glycogen and glucose metabolisms**.**
8.0 for transport mechanisms in biological membranes;
  8.1. the permeability of biological membranes
  8.2. explain its correlation with ATP usage**.**
9.0 for probability
  9.1. describe the term of probability
  9.2. explain the rules of the probability
  9.3. list the probability distributions
10.0 for diagnosing tests
  10.1. list the names of the measurements that used to evaluate the accuracy of a diagnostic test. ,
  10.2 to explain the meanings of the values of these measurements.
11.0 for epidemiology,
  11.1. to explain the meaning of epidemiology,
  11.2. list the names of epidemiological studies.
  11.3. list the risk measurements that are used in epidemiological studies.
12.0 list developmental events respectively from somitogenesis to neurulation
13.0 Describe the process of foldings, angiogenesis and list developmental events respectively from organogenesis to parturition
14.0 explain developmental link between embryonic layers and tissues that form organs.
15.0 explain infertility, contraception and assisted reproductive techniques
16.0 explain the development of congenital anomalies
17.0 define the features of the mitochondrial genome and mutated mitochondrial genes.
18.0 define the basics of immune response
19.0 explain case scenario related basic medical science topics in a clinical context.

SKILLS

1.0 apply basic laboratory techniques and use of equipment.

2.0 for biostatistics,

2.1. apply probability techniques for a given problem

2.2. apply the measurements to evaluate the accuracy of a diagnostic test.

2.3 apply risk measurements to evaluate the risk of the exposure in a given study.

3.0 use biopsychosocial approach on medical practice.

4.0 display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.

5.0 present and write a scientific article

ATTITUDES

1.0. value teamwork, interpersonal skills, and significance of psychosocial issues.

COMMITTEE V - ENERGY AND METABOLISM
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER / INSTRUCTOR	DISTRIBUTION of MCQ			
			CE	FE	IE	TOTAL
1.0, 2.0	ANATOMY	Dr. E. Söztutar	18	6	6	30
3.0, 4.0	BEHAVIORAL SCIENCE	Behavioral Science	13	5	5	23
5.0 - 8.0	BIOCHEMISTRY	Dr. İ. Özden	27	10	10	47
9.0-11.0	BIOSTATISTICS	Dr. Ç. Keleş	15	5	5	25
12.0 - 16.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	12	4	4	20
17.0	MEDICAL BIOLOGY	Dr. T. İsbir	9	3	3	15
18.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	5	2	2	9
19.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	**100**	**35/200#**	**35/200#**	**170**

LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS
		LPE
1.0 - 2.0 SKILLS. 1.0	ANATOMY	60
5.0 - 8.0 SKILLS. 1.0	BIOCHEMISTRY	10
9.0-11.0 SKILLS. 2.0	BIOSTATISTICS	10
12.0 - 16.0 SKILLS. 1.0	HISTOLOGY & EMBRYOLOGY	20
	TOTAL	**100**

Total number of MCQs are 85 (each question has equal value)
Total value of LPE is equal to 100 points
CS = 95% of [90% CE (MCQ+EQ) + 10% (LPE)] + 5% of PBL-P

#In FE and ICE, **36** out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:
MCQ: Multiple Choice Question
SbMCQ: Multiple Choice Questions which are based on a clinical, research or daily life scenario
EQ: Essay Questions * Biostatistics exam will be given separately before the committee exam date.
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
PBL-P: Evaluation of PBL Student's Performance

COMMITTEEV -ENERGY and METABOLISM
I. WEEK 01 –05 May 2023

	Monday 01-May-2023	Tuesday 02-May-2023	Wednesday 03-May-2023	Thursday 04-May-2023	Friday 05-May-2023
09.00- 09.50	NATIONAL HOLIDAY	Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Özlem Tanrıöver &Arzu Akalın & Serdar Özdemir*	**PBL Session**	**Lecture** Muscles of the Pelvic Girdle (Gluteal Region) *Erdem Söztutar*	**Lecture** Transport Through Biological Membranes *İnci Özden*
10.00- 10.50		**Group E** / **Group A Sci. Res. & P. I Small Group Studies** / **Independent Learning**		**Lecture** Muscles of the Pelvic Girdle (Gluteal Region) *Erdem Söztutar*	**Lecture** Transport Through Biological Membranes *İnci Özden*
11.00- 11.50				**Lecture** Probability *E. Çiğdem Keleş*	**Lecture** Muscles of the Thigh *Erdem Söztutar*
12.00- 12.50			**Independent Learning**	**Lecture** Probability *E. Çiğdem Keleş*	**Lecture** Muscles of the Thigh *Erdem Söztutar*
13.00- 13.50		**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Introductory Session** Introduction to Committee V *Secretary of Committee V*	**Lecture** Third to Eight Weeks: Embryonic Period (Somitogenesis, Mesoderm Organisation) *Alev Cumbul*	**ELECTIVE WEEK XII** / **Independent Learning**
15.00- 15.50			**Lecture** Transport Through Biological Membranes *İnci Özden*	**Lecture** Third to Eight Weeks: Embryonic Period (Neurulation; Neuroectoderm Organization; Angiogenesis) *Alev Cumbul*	
16.00- 16.50		**Independent Learning**	**Lecture** Transport Through Biological Membranes *İnci Özden*	**Behavioral Science / Lecture** Culture and Illness *Instructors*	**Independent Learning** / **ELECTIVE WEEK XII**
17.00-17.50			**Independent Learning**	**Behavioral Science / Lecture** Culture and Illness *Instructors*	

COMMITTEEV -ENERGY and METABOLISM
II. WEEK 08 –12 May 2023

	Monday 08- May-2023	Tuesday 09- May -2023			Wednesday 10- May -2023	Thursday 11- May -2023	Friday 12- May -2023	
09.00- 09.50	PBL Session	Lecture ICP Vital Signs *Özlem Tanrıöver*			**Lecture** Digestion and Absorption of Carbohydrates *İnci Özden*	**Lecture** Foldings and Body cavities *Alev Cumbul*	Independent Learning	
10.00- 10.50		Clinical Skills Learning ICP I Vital Signs Vital Signs *Cem Şimşek & Serdar Özdemir* Group A	Group B Sci. Res. & P. I Small Group Studies	Group B,C,D IL	**Lecture** Digestion and Absorption of Carbohydrates *İnci Özden*	**Lecture** Genome of Mitochondria *Turgay İsbir*	**Lecture** Extraembryonic Structures: Placenta, Chorion, Amnion *Aylin Yaba Uçar*	
11.00- 11.50					**Lecture** Muscles of the Leg *Erdem Söztutar*	**Lecture** Genome of Mitochondria *Turgay İsbir*	**Laboratory/Anatomy** Muscles of the Thigh *Erdem Söztutar* *Group A*	
12.00- 12.50	Independent Learning				**Lecture** Muscles of the Leg *Erdem Söztutar*	**Lecture** Genome of Mitochondria *Turgay İsbir*	**Laboratory/Anatomy** Muscles of the Thigh) *Erdem Söztutar* *Group B*	
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*			**Lecture** Foldings and Body cavities *Alev Cumbul*	**Lecture** Signal Transduction in Immunity *Gülderen Yanıkkaya Demirel*	ELECTIVE WEEK XIII	Independent Learning
15.00- 15.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*				**Lecture** 3rd month to birth: Organogenesis and Fetal Period *Aylin Yaba Uçar*	**Lecture** Cytokines and Immune Markers *Gülderen Yanıkkaya Demirel*		
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Laboratory/Anatomy** Muscles of the Pelvic Girdle (Gluteal Region) *Erdem Söztutar* *Group A*			**Lecture** Theoretical Distributions *E. Çiğdem Keleş*	**Behavioral Science / Lecture** Human Sexuality *Instructors*	Independent learning	ELECTIVE WEEK XIII
17.00-17.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Laboratory/Anatomy** Muscles of the Pelvic Girdle (Gluteal Region) *Erdem Söztutar* *Group B*			**Lecture** Theoretical Distributions *E. Çiğdem Keleş*	**Behavioral Science / Lecture** Violence and Abuse *Instructors*		

COMMITTEEV -ENERGY and METABOLISM
III. WEEK / 15 – 19 May 2023

	Monday 15-May- 2023	Tuesday 16-May--2023			Wednesday 17-May--2023	Thursday 18-May-2023	Friday 19-May-2023
09.00- 09.50	**Lecture** Epidemiological Research Methods and Calculation of the Risk *E. Çiğdem Keleş*	**Independent Learning**			**Independent Learning**	**Lecture** Biology of Energy and Energy Balance *Turgay İsbir*	**NATIONAL HOLIDAY**
10.00- 10.50	**Lecture** Epidemiological Research Methods and Calculation of the Risk *E. Çiğdem Keleş*	**Clinical Skills Learning** **ICP I** Vital Signs *Cem Şimşek & Serdar Özdemir* **Group B**	**Group B** **Scı. R. And P.I** **Small Group Studies**	**Group A,D,E** **Independent Learning**	**Independent Learning**	**Lecture** Biology of Energy and Energy Balance *Turgay İsbir*	
11.00- 11.50	**Lecture** Biology of life span *Turgay Isbir*				**Lecture** Antigen-Antibody Reactions *Gülderen Yanıkkaya Demirel*	**Laboratory/ Anatomy** Muscles of the Foot *Erdem Söztutar* *Group A*	
12.00- 12.50	**Lecture** Biology of life span *Turgay Isbir*				**Lecture** Antigen-Antibody Reactions *Gülderen Yanıkkaya Demirel*	**Laboratory/ Anatomy** Muscles of the Foot *Erdem Söztutar* *Group B*	
13.00- 13.50	**Lunch Break**	**Lunch Break**			**Lunch Break**	**Lunch Break**	
14.00- 14.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*			**Lecture** Muscles of the Foot *Erdem Söztutar*	**Lecture** Theoretical Distributions *E. Çiğdem Keleş*	
15.00- 15.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*				**Lecture** Muscles of the Foot *Erdem Söztutar*	**Lecture** Theoretical Distributions *E. Çiğdem Keleş*	
16.00- 16.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Laboratory/ Anatomy** Muscles of the Leg *Erdem Söztutar* *Group B*			**Lecture** Twins and Parturition *Aylin Yaba Uçar*	**Behavioral Science / Lecture** The Physician-Patient Relationship *Instructors*	
17.00-17.50	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Laboratory/ Anatomy** Muscles of the Leg *Erdem Söztutar* *Group A*			**Independent Learning**	**Behavioral Science / Lecture** The Physician-Patient Relationship *Instructors*	

COMMITTEEV -ENERGY and METABOLISM
IV. WEEK 22 –26 May 2023

	Monday 22- May-2023	Tuesday 23-May-2023	Wednesday 24-May-2023	Thursday 25-May-2023	Friday 26-May-2023
09.00- 09.50	**Lecture** Regulation of Glycogenesis and Glycogenolysis *İnci Özden*	**Independent Learning**	**Lecture** Gluconeogenesis *İnci Özden*	**Independent Learning** **Laboratory / Histology&Embryology** Developing Human **II** *Alev Cumbul & Aylin Yaba Uçar* ***Group B***	**Lecture** Fibrinolysis, Fibrinolytic and Antifibrinolytic Agents *İnci Özden*
10.00- 10.50	**Lecture** Regulation of Glycogenesis and Glycogenolysis *İnci Özden*		**Lecture** Gluconeogenesis *İnci Özden*	**Laboratory/ Anatomy** Lumbosacral plexus, Nerves and vessels of the lower limbs *Erdem Söztutar* *Group A*	**Lecture** Fibrinolysis, Fibrinolytic and Antifibrinolytic Agents *İnci Özden*
11.00- 11.50	**Lecture** Lumbosacral Plexus *Erdem Söztutar*		**Lecture** Diagnostic Testing *E. Çiğdem Keleş*	**Laboratory/ Anatomy** Lumbosacral plexus, Nerves and vessels of the lower limbs *Erdem Söztutar* *Group B*	**Lecture** Infertility and Contraception *Aylin Yaba Uçar*
12.00- 12.50	**Lecture** Lumbosacral Plexus *Erdem Söztutar*		**Lecture** The Description of Epidemiology *E. Çiğdem Keleş*	**Independent Learning** **Laboratory / Histology&Embryology** Developing Human **II** *Alev Cumbul & Aylin Yaba Uçar* ***Group A***	**Lecture** Assisted Reproductive Technology *Aylin Yaba Uçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Vital Signs *Gökhan Gençer & Serdar Özdemir*	**Lecture** Congenital Anomalies and Teratology *Alev Cumbul*	**Lecture** Gluconeogenesis *İnci Özden*	**ELECTIVE WEEK XIV** **Independent Learning**
15.00- 15.50	**Independent Learning**	**Group C** **Group D** **Sci. R. And P.I** **Small Group Studies** **Group A,B,C IL**	**Lecture** Vasculature of the Lower Limb *Erdem Söztutar*	**Lecture** Gluconeogenesis *İnci Özden*	
16.00- 16.50	**Independent Learning**		**Lecture** Nerves of the Lower Limb *Erdem Söztutar*	**Behavioral Science/Lecture** Legal and Ethical Issues in Medicine *Instructors*	**Independent Learning** **ELECTIVE WEEK XIV**
17.00-17.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Behavioral Science/Lecture** Legal and Ethical Issues in Medicine *Instructors*	

COMMITTEEV -ENERGY and METABOLISM
V. WEEK 29 May- 02 June 2023

	Monday 29-May-2023	Tuesday 30-May-2023	Wednesday 31- May-2023	Thursday 01-June-2023	Friday 02-June-2023
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture** Secondary Hemostasis, Procoagulation, Anticoagulation *İnci Özden*	**Lecture** Glycolysis *İnci Özden*	Discussion (Large Group) Ov erv iew *Erdem Söztutar*
10.00- 10.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Vital Signs *E. Gökhan Gencer & Serdar Özdemir*	**Lecture** Secondary Hemostasis, Procoagulation, Anticoagulation *İnci Özden*	**Lecture** Glycolysis *İnci Özden*	Discussion (Large Group) Ov erv iew *Erdem Söztutar*
11.00- 11.50	**Lecture** Pentose phosphate pathway *İnci Özden*	**Group E** / **Group A Scı. R. And P.I Small Group Studies** / **Group B,C and D IL**	**Lecture** Glucose Determination in Blood, Occult Blood in Feces *Müge Kopuz*	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel **Group D** *E. Çiğdem Keleş*	**Lecture** Epidemiological Research Methods and Calculation of the Risk *E. Çiğdem Keleş*
12.00- 12.50	**Lecture** Pentose phosphate pathway *İnci Özden*		**Laboratory / Biochemistry** Glucose Determination in Blood, Occult Blood in Feces *Jale Çoban & Müge Kopuz* **Group A**	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel **Group C** *E. Çiğdem Keleş*	**Lecture** Sampling in Epidemiology *E.Çiğdem Keleş*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Clinical Skills Learning** **ICP I** Vital Signs *E. Gökhan Gencer & Serdar Özdemir*	**Lecture** Gly cogenoly sis *İnci Özden*	Glucose Determination in Blood, Occult Blood in Feces, *Jale Çoban & Müge Kopuz* **Group B**	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel **Group B** *E. Çiğdem Keleş*	**Independent Learning**
15.00- 15.50	**Group D** / **Group E Scı. R. And P.I Small Group Studies** / **Group B,C and D IL**	**Lecture** Gly cogenoly sis *İnci Özden*	Glucose Determination in Blood, Occult Blood in Feces *Jale Çoban & Müge Kopuz* **Group C**	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel **Group A** *E. Çiğdem Keleş*	
16.00- 16.50		**Independent Learning**	Glucose Determination in Blood, Occult Blood in Feces *Jale Çoban & Müge Kopuz* **Group D**	**Behavioral Science / Lecture** Introduction to Psy chopathology *Instructors*	
17.00-17.50	**Independent Learning**		**Independent Learning**	**Behavioral Science / Lecture** Introduction to Psy chopathology *Instructors*	

COMMITTEEV -ENERGY and METABOLISM
VI. WEEK / 05 – 09 June 2023

<table>
<tr><th></th><th>Monday
05- June-2023</th><th>Tuesday
06- June-2023</th><th>Wednesday
07- June-2023</th><th>Thursday
08- June-2023</th><th>Friday
09- June- 2023</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td>Independent Learning</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td>Assessment Session
Histology&Embryology
Physiology
Anatomy
Biostatistics
(Practical Exam)</td></tr>
<tr><td>11.00- 11.50</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>12.00- 12.50</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td rowspan="2">Assessment Session
Committee V</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Program Evaluation Session
Review of the Exam Questions
Evaluation of the Committee V Program
Head of Committee</td></tr>
<tr><td>17.00-17.50</td></tr>
</table>

STUDENT COUNSELING

Student counseling is a structured development process established between the student and the consultant that aims to maximize student success by focusing the student to her/his target. Although the major component of this relationship is the student, the faculties also take part by bringing the requirements of this interaction to their systems. The targeted outcomes of the consultant -student interaction are success in the exams, success in the program, and preparation for the professional life.

The aim of counseling is to help students to solve their problems, to give professional guidance, to provide coaching, to contribute to adopting the habit of lifelong learning, to provide information about the University and Faculty, to follow their success and failure and to help them select courses.

The consultants selected among Basic Medical Sciences instructors for the first three years transfer the students to Clinical Sciences instructors for the following three years.

The topics that will be addressed by the consultants are as follows:

a) Inform students about the university, faculty and surrounding facilities
b) Inform students about the courses and help them select courses
c) Inform students about the education and assessment regulations
d) Follow students attendance to lectures and success
e) In case of failure, investigate the causes and cooperate with the students to overcome them
f) Help students in career planning
g) Contribute to students adapting the habit of lifelong learning
h) Guide students to counseling services of the university
i) Set a role model as long as the professional susceptibility, professional guidance, intellectual responsibility, interaction with peers, ethics, professional values are concerned
j) Contribute to cultivation of professional and intellectual development in a rapidly changing world
k) Inform the coordinator when there are unsolved problems of the students
l) Consultant-student relationship is a dynamic and mutual process carried out within the campus and the hospital. It is recommended that the consultant and the student meet at least twice during a semester.

The expectations from the student are as follows:

a) Contribute to improvement of satisfaction level in the problem areas
b) Report the social and economic conditions that require consultant's help
c) Specify expectations from the education and the department from which this training is taken
d) Give feedback on the counseling services regarding their satisfaction level

Student counsellors will be appointed after finalization of the class list and will be announced to the students.

After the announcement of the counsellors on the information board, each student is expected to contact his/her counsellor until the end of the current committee.

The student counseling lists are announced through the Google Classroom pages of the respective phase.

PEER ADVISING PROGRAM

In addition to the Student Counseling program which lasts throughout the six years in the Faculty of Medicine, the Office of Individual and Academic Development under the Dean of Students of Yeditepe University runs a peer advising program for the first-year medical students in cooperation with the Faculty of Medicine.

The aim of the peer advising program is to facilitate the adaptation process of new undergraduate students (first year or freshmen) to the University environment.

Within the scope of the program, each student is assigned a peer advisor who is from upper classes of the same major/ faculty as the freshman. The duration of the peer advising is one academic year during which, peer advisors help students assigned to them for basic questions related to their university education.

Peer advisors gain leadership skills (such as team building, time management, problem-solving, mentoring) that will benefit them in their future professional life/ career while helping first year/ new-comer students by their adaptation process to the university academic life.

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