YEDİTEPE UNIVERSITY

FACULTY OF MEDICINE

PHASE I

ACADEMIC PROGRAM BOOK

2023 - 2024

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

YEDİTEPE UNIVERSITY

FACULTY OF MEDICINE PHASE I

CONTENT **Page**

COORDINATION COMMITTEE

(TEACHING YEAR 2023–2024)

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

ICP-I COORDINATION COMMITTEE

Güldal İzbırak MD, Prof. (Coordinator)
B. Tuvana Us, MD, Instructor (Co-Coordinator)
Duygu ALTIPARMAK, MD (Co-coordinator)
H. Yasin Delibaş, MSc (CSL Laboratory Responsible Staff)

FREE ELECTIVE COURSES COORDINATION COMMITTEE

Seda GÜLEÇ YILMAZ, PhD. Assoc. Prof. (Coordinator)
Ahmet SAÇ, MD, Instructor (Co-coordinator)

PBL COORDINATION COMMITTEE

Serdar ÖZDEMİR, MD, PhD, Assist. Prof. (Coordinator)
Tümay SADIKOĞLU, MD, Assist. Prof. (Co-coordinator)

ACADEMIC CALENDAR 2003-2024

MED 104 BASIC MEDICAL SCIENCES I		
COMMITTEE I INTRODUCTION to BASIC MEDICAL SCIENCES (7 Weeks)		
Beginning of Committee	September 18, 2023	Monday
End of Committee	November 03, 2023	Friday
Committee Medical Biology Practical Exam	November 01, 2023	Wednesday
Committee Histology & Embryology Practical Exam	November 01, 2023	Wednesday
Committee Medical Anatomy Practical Exam	November 01, 2023	Wednesday
Committee Theoretical Exam	November 03, 2023	Friday
National Holiday	**October 28$^{1/2}$- 29, 2023**	**Saturday-Sunday**
COMMITTEE II CELL (8 Weeks)		
Beginning of Committee	November 06, 2023	Monday
End of Committee	December 29, 2023	Friday
Committee Anatomy Practical Exam	December 27, 2023	Wednesday
Committee Histology & Embryology Practical Exam	December 27, 2023	Wednesday
Committee Physiology Practical Exam	December 27, 2023	Wednesday
Committee Medical Biology Practical Exam	December 27, 2023	Wednesday
Committee Theoretical Exam	December 29, 2023	Friday
Commemoration of Atatürk	**November 10, 2023**	**Friday**
COMMITTEE III TISSUE I (6 Weeks)		
Beginning of Committee	January 02, 2024	Monday
End of Committee	February 23, 2024	Friday
Committee Histology & Embryology Practical Exam	February 21, 2024	Wednesday
Committee Physiology Practical Exam	February 21, 2024	Wednesday
Committee Anatomy Practical Exam	February 21, 2024	Wednesday
Committee Theoretical Exam	February 23, 2024	Friday

New Year	**January 01, 2024**	**Monday**
MIDTERM BREAK	**January 22, 2024**	**February 2, 2024**
COMMITTEE IV TISSUE II (9 Weeks)		
Beginning of Committee	February 26, 2024	Monday
End of Committee	April 26, 2024	Friday
Committee Anatomy Practical Exam	April 24, 2024	Wednesday
Committee Medical Biology Practical Exam	April 24, 2024	Wednesday
Committee Histology & Embryology Practical Exam	April 24, 2024	Wednesday
Committee Biochemistry Practical Exam	April 24, 2024	Wednesday
Committee Theoretical Exam	April 26, 2024	Friday
Physicians' Day	**March 14, 2024**	**Thursday**
Religious Holiday	**April 09$^{1/2}$-14, 2024**	**Tuesday-Sunday**
National Holiday	**April 23,2024**	**Tuesday**
COMMITTEE V ENERGY and METABOLISM (6 Weeks)		
Beginning of Committee	April 29, 2024	Tuesday
End of Committee	June 07, 2024	Friday
Committee Biostatistics Practical Exam	June 5, 2024	Wednesday
Committee Biostatistics Practical Exam	June 5, 2024	Wednesday
Committee Histology & Embryology Practical Exam	June 5, 2024	Wednesday
Committee Anatomy Practical Exam	June 5, 2024	Wednesday
Committee Theoretical Exam	June 7, 2024	Friday
Labor's Day	**May 1, 2024**	**Wednesday**
National Holiday	**May 19, 2024**	**Sunday**
First Progress Test	**October 12,2023**	**Sunday**
Second Progress Test	**May 5,2024**	**Sunday**
Make-up Exam	June 12-13, 2024	Wednesday-Thursday
Final Exam	June 28, 2024	Friday

Incomplete Exam	July 26, 2024	Friday
FREE ELECTIVE COURSES-Spring 2023-2024		
Beginning of Elective Courses	February 16, 2024	Friday
End of Elective Courses	May 24, 2024	Friday
Midterm Exam	March 29, 2024	Friday
Final Exam	June 08-14, 2024	Saturday-Friday
Make-up Exam	21-28-June 2, 2024	Friday-Friday
Incomplete Exam	July 08-17, 2024	Monday-Wednesday
MED 102 INTRODUCTION to CLINICAL PRACTICE I (ICP-I)		
Beginning of Course	September 19, 2023	Tuesday
End of Course	June 07, 2024	Tuesday
Midterm Exam	February 13, 2024	Tuesday
Make-up Exam	June 4, 2024	Tuesday
Final Exam	July 01-02, 2024	Monday-Tuesday
Incomplete Exam	July 19, 2024	Friday
MED 103 ANATOMICAL DRAWING		
Beginning of Course	September 19, 2023	Tuesday
End of Course	May 14, 2024	Tuesday
First Midterm Exam	November 7, 2023	Tuesday
Second Midterm Exam	January 9, 2024	Tuesday
Third Midterm Exam	February 27, 2024	Tuesday
Fourth Midterm Exam	May 7, 2024	Tuesday
Final Exam	May 28, 2024	Tuesday
Incomplete Exam	June 25, 2024	Tuesday
TKL 201&202 TURKISH LANGUAGE & LITERATURE	**TKL**	

Fall Final Exam	January 11, 2024	Thursday (09:00-11:00)
Spring Final Exam	June 02, 2024	Sunday (09:00-18:00)
HTR 301&302 ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	**HTR**	
Fall Final Exam	January 12, 2024	Friday (09:00-14:00)
Spring Final Exam	June 01, 2024	Saturday (09:00-18:00)
HUM 103 HUMANITIES	**HUM**	
Fall Final Exam	January 11, 2024	Thursday (14:00-17:00)
COORDINATON COMMITTEE MEETINGS		
1. Coordination Committee Meeting	October 17, 2023	Thursday 15:00
2. Coordination Committee Meeting	January 10, 2024	Tuesday 15:00 (with student participation)
3. Coordination Committee Meeting	May 14, 2024	Tuesday 15:00 (with student participation)
4. **Coordination Committee Meeting**	July 09, 2024	Tuesday 15:00

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.

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/Ulusal-cekirdek-egitimi-programlari/mezuniyet-oncesi-tip-egitimi-cekirdek-egitimi-programi.pdf

COMPETENCY AREA-1 / Professional Practices

COMPETENCY 1.1. Health Service Provider

Competence 1.1.1. Integrates knowledge, skills, and attitudes acquired from basic and clinical medical sciences, behavioral sciences, and social sciences to provide health services.

Competence 1.1.2. Demonstrates a biopsychosocial approach that considers the individual's sociodemographic and sociocultural background without discrimination based on language, religion, race, or gender in patient management.

Competence 1.1.3. Prioritizes the protection and improvement of individuals' and community's health in the delivery of healthcare services.

Competence 1.1.4. Performs the necessary actions in the direction of maintaining and improving the state of health as considering the individual, social, social and environmental factors affecting health.

Competence 1.1.5. Provides health education to healthy/ill individuals and their families, as well as to other healthcare professionals, by recognizing the characteristics, needs, and expectations of the target audience.

Competence 1.1.6. Demonstrates a safe, rational, and effective approach in the processes of protection, diagnosis, treatment, follow-up, and rehabilitation in health service delivery.

Competence 1.1.7. Performs interventional and/or non-interventional procedures safely and effectively for the patient in the processes of diagnosis, treatment, follow-up, and rehabilitation.

Competence 1.1.8. Provides healthcare services considering patient and employee health and safety.

Competence 1.1.9. Considers changes related to the physical and socio-economic environment at both regional and global scales that affect health, as well as changes in the individual characteristics and behaviors of those who seek healthcare services.

COMPETENCY AREA-2 / Professional Values and Approaches

COMPETENCY 2.1. Adopting Professional Ethics and Principles

Competence 2.1.1. Considers good medical practices while performing the profession.

Competence 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession.

Competence 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity.

Competence 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics.

COMPETENCY 2.2. Health Advocate

Competence 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health.
Competence 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health.
Competence 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality.
Competence 2.2.4. Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it.
COMPETENCY 2.3. Leader-Manager
Competence 2.3.1. Demonstrates exemplary behavior and leadership within the healthcare team during service delivery.
Competence 2.3.2. Utilizes resources in a cost-effective, socially beneficial, and compliant manner with regulations in the planning, implementation, and evaluation processes of healthcare services as the manager in the healthcare institution.
COMPETENCY 2.4. Team Member
Competence 2.4.1. Communicates effectively within the healthcare team and takes on different team roles as necessary.
Competence 2.4.2. Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team.
Competence 2.4.3. Works collaboratively and effectively with colleagues and other professional groups in professional practice.
COMPETENCY 2.5. Communicator
Competence 2.5.1. Communicates effectively with patients, their families, healthcare professionals, and other occupational groups, institutions and organizations.
Competence 2.5.2. Communicates effectively with individuals and groups who require a special approach and have different sociocultural characteristics.
Competence 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes.
COMPETENCY AREA-3 / Professional and Personal Development
COMPETENCY 3.1. Scientific and Analytical Approach
Competence 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community.
Competence 3.1.2. Accesses and critically evaluates current literature related to their profession.

Competence 3.1.3. Applies evidence-based medicine principles in the clinical decision-making process.
Competence 3.1.4. Uses information technologies to enhance the effectiveness of healthcare, research, and education activities.
COMPETENCY 3.2. Lifelong Learner
Competence 3.2.1. Manages effectively individual study processes and career development.
Competence 3.2.2. Demonstrates skills in acquiring, evaluating, integrating new information with existing knowledge, applying to professional situations, and adapting to changing conditions throughout professional career.
Competence 3.2.3. Selects the right learning resources to improve the quality of health care and organizes the learning process.

2023-2024 CURRICULUM OF PHASE I

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE

CODE		FIRST YEAR	W	T	A	L	Y	E
MED	104	Basic Medical Sciences I	36	487		58	40	40
MED	102	Introduction to Clinical Practice I	35	22		14	5	5
MED	103	Anatomical Drawing	32	0		64	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 2023-2024 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 for 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 : The Milestones of the Life for Performance Management, 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 Communication with Hearing Impaired Patients in Turkish Sign Language, MED 636 Art Project, MED 637 Artistic Photography and Composition.

[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 University 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 the 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_2023-24_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, students 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 to anatomic models.

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 in 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 values 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, students 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 17.0 list the proper manner of action as a responsible physician when faced with legal risks
	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 in 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 –invasive 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 invasive and non invasive procedural skills on mannequins.

Each OSCE room is equipped with video cameras and microphones to record the encounter. An observation area at the center of the lab allows faculty and students to observe the encounters live or view digital recordings 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 2023-2024 ACADEMIC PROGRAM

MED 102 ICP-I			
DAY	**HOUR**	**SUBJECT**	**LECTURER**
19-Sep-23 TUESDAY	11.00-11.50	Introduction to ICP Programmes	G.İzbırak
20-Sep-23 WEDNESDAY	10.00-10.50	Hand Washing and Wearing Sterile Gloves and Masks	G.İzbırak / D.Altıparmak
03-Oct-23 TUESDAY	10.00-12.50	CSL: Hand Washing and Wearing Sterile Gloves and Masks Group A	D.Altıparmak / S.Özdemir
09-Oct-23 TUESDAY	10.00-12.50	CSL: Hand Washing and Wearing Sterile Gloves and Masks Group B	D.Altıparmak / S.Özdemir
10-Oct-23 TUESDAY	10.00-12.50	CSL: Hand Washing and Wearing Sterile Gloves and Masks Group C	D.Altıparmak / S.Özdemir
17-Oct-23 TUESDAY	10.00-12.50	CSL: Hand Washing and Wearing Sterile Gloves and Masks Group D	D.Altıparmak / B.Tuvana US
24-Oct-23 TUESDAY	10.00-12.50	CSL: Hand Washing and Wearing Sterile Gloves and Masks Group E	D.Altıparmak / B.Tuvana US
FIRST AID PROGRAMMES			
07-Nov-2023	10.00-10.50	Introduction to the First Aid Programmes	G.Gençer
TUESDAY	11.00-11.50	Basic Human Body	G.Gençer
	12.00-12.50	Scene Assessment	G.Gençer
08-Nov-2023	09:00-09:50	Basic Life Support and Heimlich Maneuver	H.Candemir
08-Nov-2023	10:00-10:50	Basic Life Support and Heimlich Maneuver	
10-Nov-2023	14:00-14:50	Shock and Bleeding Control	
10-Nov-2023	15:00-15:50	Burns, Freezing, Frostbite	H.Candemir
14-Nov-2023	09:00-09:50	Injuries	G.Gençer

TUESDAY	10:00-10:50	Foreign Objects	G.Gençer
	11:00-11:50	Fractures and Dislocation	G.Gençer
	12:00-12:50	The Unconscious Casualty	G.Gençer
15-Nov-2023	09:00-09:50	Drowning	H.Candemir
15-Nov-2023	10:00-10:50	Poisoning	H.Candemir
20-Nov-2023	10:00-10:50	Insect Bite	G.Gençer
20-Nov-2023	11:00-11:50	Patient-Casualty Transportation Techniques	
21-Nov-2023 TUESDAY	09.00-12.50	LAB: Basic Life Support and Heimlich **Group A**	Sezgin Sarıkaya / Yunus Emre Vural
28-Nov-2023 FRIDAY	09.00-12.50	LAB: Basic Life Support and Heimlich **Group B**	Sezgin Sarıkaya / Atakan Gültekin
05-Dec-2023 TUESDAY	09.00-12.50	LAB: Basic Life Support and Heimlich **Group C**	Cem Şimşek / Rabia Sarıyıldız
12-Dec-2023 FRIDAY	09.00-12.50	LAB: Basic Life Support and Heimlich **Group D**	Gökhan Gencer / Ayfer İskender
19-Dec-2023 TUESDAY	09.00-12.50	LAB: Basic Life Support and Heimlich **Group E**	Hande Candemir / Ayfer İskender
02-Jan-2024 TUESDAY	09.00-12.50	LAB: Patient-Causalty Transportation / Bandaging Techniques **Group A**	Sezgin Sarıkaya / Yunus Emre Vural
09-Jan-2024 TUESDAY	09.00-12.50	LAB: Patient-Causalty Transportation / Bandaging Techniques **Group B**	Sezgin Sarıkaya / Atakan Gültekin
10-Jan-2024 WEDNESDAY	14.00-17.50	LAB: Patient-Causalty Transportation / Bandaging Techniques **Group C**	Cem Şimşek / Ayfer İskender

16-Jan-2024 **TUESDAY**	09.00-12.50	LAB: Patient-Causalty Transportation / Bandaging Techniques **Group D**	Gökhan Gençer / Ayfer İskender
18-Jan-2024 **THURSDAY**	14.00-17.50	LAB: Patient-Causalty Transportation / Bandaging Techniques **Group E**	Hande Candemir / Rabia Sarıyıldız
COMMUNICATION SKILLS			
06-Feb-2024 **TUESDAY**	10:00-10:50	Lecture Introduction to Communication Skills	Tümay Sadıkoğlu
	11:00-11:50	Basic Communication Skills Giving Information	Tümay Sadıkoğlu
	16:00-17:50	History Taking as a Clinical Skill	Tümay Sadıkoğlu
09-Feb-2024 **FRIDAY**	11:00-11:50	The Medical Interview	Tümay Sadıkoğlu
	12:00-12:50		
13-Feb-2024 **TUESDAY**	11:00-12:50	**ICP MIDTERM EXAM**	
27-Feb-24 **TUESDAY**	09:00-12:50	Patient-Doctor Communication Skills Using **SPs** GROUP A	Güldal İzbırak & Serdar Özdemir & Duygu Altıparmak
5-Mar-24 **TUESDAY**	09:00-12:50	Patient-Doctor Communication Skills Using **SPs** GROUP B	Güldal İzbırak & Serdar Özdemir & Duygu Altıparmak
11-Mar-24 **MONDAY**	09:00-12:50	Patient-Doctor Communication Skills Using **SPs** Group C	Güldal İzbırak & Serdar Özdemir & Duygu Altıparmak
19-Mar-24 **TUESDAY**	09:00-12:50	Patient-Doctor Communication Skills Using **SPs** Group D	Güldal İzbırak & Serdar Özdemir & Duygu Altıparmak

26-Mar-24 **TUESDAY**	09:00-12:50	Patient-Doctor Communication Skills Using **SPs** Group E	Güldal İzbırak & Serdar Özdemir & Duygu Altıparmak
30- Apr-24 **TUESDAY**	09:00-12:50	Vital Signs GROUP A	Ayfer İskender
07-May-24 **TUESDAY**	09:00-12:50	Vital Signs GROUP B	Rabia Sarıyıldız
14-May-24 **TUESDAY**	09:00-12:50	Vital Signs GROUP C	Yunus Emre Vural
21-May-24 **TUESDAY**	09:00-12:50	Vital Signs GROUP D	Gökhan Gençer
28-May-24 **TUESDAY**	09:00-12:50	Vital Signs GROUP E	Hande Candemir
Beginning of Course September 19, 2023 Tuesday End of Course June 07, 2024 Friday Midterm Exam February 13, 2024 Tuesday Make-up Exam June 4, 2024 Tuesday Final Exam July 1-2, 2024 Monday-Tuesday Incomplete Exam July 19, 2024 Friday			

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 basic knowledge of reading and presenting a scientific research article.

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 characteristics of scientific research
3.0 describe process of scientific research and scientific study design
4.0 explain the search construction, boolean operators and PubMed searching
5.0 explain the parts of an article (title, abstract, introduction, aim, hypothesis, methods, results, discussion, conclusions, references)
6.0 explain the parts of an abstract
7.0 describe how to read and present an article

SKILLS

1.0 use PubMed as academic search enginee
2.0 apply critical reading of scientific article
3.0 present a scientific research 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 (ask a question, determine keywords and draw search construction (draw a chart) and search from Pubmed with boolean operators “and, or, not”) at the end of the first semester (**February 10, 2024**) and 50% will be graded on Assignment 2 (present a scientific research article) at the end of the second semester **(May 5, 2024).**

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

Please note that you may only attend Small Group Study hours in the assigned group hours. A list of groups will be published during the first week of the term.

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* $\geq$ ***60*** ***Fail;*** *FES* ***< 50*** *(barrier point), ICES* ***< 50*** *(barrier point), or/and TS* ***< 60*** *The student is exempted from FE, if the CMS is* $\geq$ ***80*** *and all CSs are* $\geq$ ***60*** *The FE and ICE barrier point is not applied to the students whose all CSs are* $\geq$ ***60***
Introduction to Clinical Practice I (MED 102)
Pass; *ICPS* $\geq$ ***60*** ***Fail;*** *ICPS* ***< 60***
Anatomical Drawing (MED 103)
Pass; *ADS* $\geq$ ***60*** ***Fail;*** *ADS* ***< 60***
Common Compulsory Courses **(HUM 103, TKL 201, TKL 202, HTR 301, HTR 302, AFYA 101, AFYA 102)**
Pass; *CCCSs* $\geq$ ***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,MED 636, MED 637)**

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.

RULES FOR COURSE ATTENDANCE OF THE STUDENTS

General Rules:

Students are required to attend the all theoretical and practical sessions such as laboratory work, discussions, seminars, area and clinical studies of courses for the term they are enrolled in. Students whose absenteeism in the theoretical and/or practical sessions exceeds 20% are not admitted to term final and incomplete examinations of the courses.

Phase I, II, and III:

BMS I, BMS II, ICS course committees

A student is required to attend a committee in full. A student who fails to fulfill the attendance requirements is not admitted to the committee examination, and is deemed to have failed that committee. The absenteeism of a student, whose absenteeism does not exceed 20% of a committee and who has a reason considered justified ad valid, may be accepted. However,a student whose absenteeism in the theoretical and/or practical sessions in a committee exceeds 20% but whose excuse is accepted by the Board of Directors, is admitted to the make-up examination of the related committee if his/her absenteeism does not exceed 20% of the total number of the course hours covering/including all the committees throughout the term.

ICP I,II,III courses

A student whose absenteeism exceeds 20% of the theoretical and/or laboratory sessions in the program until the midterm exam date will not be admitted to the ICP Mid-Term exam (MCQ and/or OSCE). However, a student whose absence exceeds 20%, but whose excuse is accepted by the Board of Directors, is admitted to the make-up examination of the ICP Mid-Term exam, if his/her absenteeism does not exceed 20% of the total course hours during the term.

For more information: https://yeditepe.edu.tr/sites/default/files/2023-02/yeditepe_university_faculty_of_medicine_training-instruction_and_examination_regulation.pdf

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.

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 students 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 discussed 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 exciting 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, suggesting 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 with valid questions and ideas							
● Balances listening and speaking roles							
● Communicates effectively in group work							
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							
● Shows 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 knowledge clearly and in an understandable way							
● Draws figures, diagrams clearly and in an understandable way							
● Has always some additional information or data to present whenever 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							
● Reviews 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 form should 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**

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.

List of Free Elective Courses

Code	Subject
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 for Business Purposes
MED 620	Art, Culture and Life Styles
MED 621	Epidemiological Research and Evidence Based Medicine
MED 622	Application of Economics in Health Care
MED 623	Visual Presentation in Medicine
MED 627	Presentation of Medicine on Media
MED 628	Healthy Living: The Milestones of the Life for Performance Management
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 Sciences
MED 635	Advanced Level Communication with Hearing Impaired Patients in Turkish Sign Language
MED 636	Art Project
MED 637	Artistic Photography and Composition

Please visit the website for more information: https://med.yeditepe.edu.tr/en/academic-program-booklets (You can reach Elective Courses Guide)

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, improvements 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	MED 104 (4E01)	MED 103 (C937)	MED 104 (4E01)	HUM 103 (FALL) MED 104 (4E01)	Elective Course (SPRING)
15:00-15:50	MED 104 (4E01)	MED 103 (C937)	MED 104 (4E01)	HUM 103 (FALL) MED 104 (4E01)	Elective Course (SPRING)
16:00-16:50	HTR 301&302 (FALL&SPRING)	AFYA 101 (FALL) & AFYA 102 (SPRING)	MED 104 (4E01)	TKL201 (FALL) &TKL202 (SPRING) AFYA 101 (FALL) & AFYA 102 (SPRING)	Elective Course (SPRING)
17:00-17:50	HTR 301&302 (FALL&SPRING)	AFYA 101 (FALL) & AFYA 102 (SPRING)	MED 104 (4E01)	TKL201 (FALL) &TKL202 (SPRING) AFYA 101 (FALL) & AFYA 102 (SPRING)	Elective Course (SPRING)
18:00-19:00					
19:00-20:00					

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 (C 937)
TKL 201 & 202	Turkish Language & Literature
AFYA 101& 102	Turkish Language for International Students ****
HTR 301 & 302	Atatürk's Principles & History of Modern Turkey (Group 1: 4E01, Group 2: Law 112)
HUM 103	Humanities
MED 611-637	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.
**** AFYA lectures will start on **03 October 2023**

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 18, 2023 – November 03, 2023
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 2 H	0	8
	MEDICAL BIOLOGY	4	0	0	4
	HEALTH LAW	10	0	0	10
	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	**67**	**4**	**9**	**80**
MED 102	ICP I	2	5 Gr x 3 H	0	5
MED 103	ANATOMICAL DRAWING	0	14	0	14
HTR 301	ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	14	0	0	14
HUM 103	HUMANITIES	14	0	0	14
TKL 201 (AFYA 101)	TURKISH LANGUAGE & LITERATURE	14	0	0	14
	INDEPENDENT LEARNING HOURS				**64**

Coordination Committee	**Head**	Ayşe ÖZER, PhD, Prof.
	Secretary	Aylin YABA UÇAR, PhD, 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. LAB: Edibe BİLİŞLİ KARA, DVM, Lecturer Ahmet SAÇ, MD, Instructor
	BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Prof.
		Alev CUMBUL, PhD, Assoc. Prof.
	MEDICAL BIOLOGY	Ayşe ÖZER, PhD, Prof.
		Soner DOĞAN, PhD, Prof.
		Deniz KIRAÇ, PhD, Prof.
		Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof.
	MEDICAL HISTORY & ETHICS	Elif VATANOĞLU-LUTZ, MD, Prof.
		Adem AZ, MD
	HEALTH LAW	Rağıp Barış ERMAN, PhD, Assist. Prof.
	ORGANIC CHEMISTRY	Cenk ANDAÇ, PhD, Assist. Prof.
	PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
		Mehtap KAÇAR, MD, PhD, Prof.
		Burcu GEMİCİ BAŞOL, PhD, Prof.
	SCIENTIFIC RESEARCH and PROJECT I	Aylin YABA UÇAR, PhD, Prof. (Responsible Faculy Member/Lecturer)
MED 102-INTRODUCTION to CLINICAL PRACTICE I (ICP- I)		Güldal İZBIRAK, MD, Prof.
		Duygu Altıparmak, MD, Specialist, Instructor
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 describe the molecular components of cell
8.0 define the concepts of medicine,disease and health in the evolutionary perspective.
9.0 explain disease and health theories in prehistoric era
10.0 define structure of atom and chemical bonds.
11.0 for organic compounds
  11.1. define functional groups
  11.2. classify possible reactions
12.0 define homeostasis
13.0 define the basic concepts of medical lawrights of the patient and physician, concept of medical intervention

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	16	4	4	24
3.0, 4.0	BIOPHYSICS	Dr. B. Güvenç Tuna	22	6	6	34
5.0, 6.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	10	3	3	16
7.0	MEDICAL BIOLOGY	Dr. Ayşe Özer Dr. S. Güleç Yılmaz	6	2	2	10
8.0, 9.0	MEDICAL HISTORY & ETHICS	Dr. E. Vatanoğlu Lutz Dr. Adem Az	15	5	5	25
10.0, 11.0, 11.1, 11.2	ORGANIC CHEMISTRY	Dr. Cenk Andaç	12	4	4	20
12.0	PHYSIOLOGY	Dr. B. Yılmaz	4	1	1	6
13.0	HEALTH LAW	Dr. Rağıp Barış Erman	15	5	5	25
		TOTAL	**100**	**30/200#**	**30/200#**	**160**

LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS
		LPE
1.0, 2.0, SKILLS 18.0	ANATOMY	60
5.0 , 6.0, SKILLS 18.0	HISTOLOGY & EMBRYOLOGY	40
	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, **30** 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 / 18 – 22 Sep 2023

	Monday 18-Sep-2023	Tuesday 19-Sep-2023	Wednesday 20-Sep-2023	Thursday 21-Sep-2023	Friday 22-Sep-2023
09.00- 09.50	**Independent Learning**	**Lecture** Introduction to Anatomy *Erdem Söztutar*	**Independent Learning**	**Lecture** Introduction to Biophysics; Medicine, Science or Art *Bilge Güvenç Tuna*	**Lecture** Center of Mass, Moment *Bilge Güvenç Tuna*
10.00- 10.50	**Introductory Session** Introduction to Faculty *Dean*	**Lecture** Terminology in Anatomy *Erdem Söztutar*	**Lecture / ICP I** Hand washing and wearing sterile gloves and masks *Duygu Altıparmak*	**Lecture** Physical Measurements and Units, Unit Standards *Bilge Güvenç Tuna*	**Lecture** Statics (Mass and Weight), Gravitation Law *Bilge Güvenç Tuna*
11.00- 11.50	**Introductory Session** Introduction to Committee I *Phase I Coordinator*	**Lecture / ICP I** Introduction to ICP Programmes *Güldal İzbırak*	**Independent Learning**	**Lecture** Introduction to Osteology *Erdem Söztutar*	**Independent Learning**
12.00- 12.50	**Independent Learning**	**Independent Learning**		**Lecture** Bones of the Soulder *Erdem Söztutar*	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Independent Learning**	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Introduction to Medical biology *Ayşe Özer*	**Common Compulsory Course** Humanities *Instructor*	**Independent Learning**
15.00- 15.50			**Lecture** Origin of Life *Seda Güleç Yılmaz*		
16:00-16:50	**Common Compulsory Course** Atatürk's Principles & History of Modern Turkey *Instructor*	**Independent Learning**	**Independent Learning**	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Independent Learning**
17:00-17:50					

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
II. WEEK / 25 Sep – 29 Sep 2023

	Monday 25-Sep-2023	Tuesday 26-Sep-2023	Wednesday 27-Sep-2023	Thursday 28-Sep-2023	Friday 29-Sep-2023
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Lecture** Newton's Laws of Motion *Bilge Güvenç Tuna*			**Lecture** Bones of the Pelvis *Erdem Söztutar*	
11.00- 11.50	**Lecture** Bones of The Upper Limb *Erdem Söztutar*	**Lecture / Scientific Research and Project I** What is Scientific Research and Scientific Methodology? *Aylin Yaba Ucar*		**Lecture** Bones of the Lower Limb *Erdem Söztutar*	**Lecture** Introduction to Histology; Basic Terminology *Alev Cumbul*
12.00- 12.50	**Lecture** Bones of The Upper Limb *Erdem Söztutar*	**Lecture / Scientific Research and Project I** Searching Scientific Literature *Aylin Yaba Ucar*		**Lecture** Bones of the Lower Limb *Erdem Söztutar*	**Lecture** Microscopy (Brightfield, Fluorescent, Confocal) *Alev Cumbul*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Independent Learning**	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**CAMPUS ORIENTATION**	**Common Compulsory Course** Humanities *Instructor*	**Independent Learning**
15.00- 15.50					
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History of Modern Turkey *Instructor*	**Independent Learning**		**Common Compulsory Course** Turkish Language & Literature *Instructor*	
17.00-17.50					

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
III. WEEK / 02 – 06 Oct 2023

	Monday 02-Oct-2023	Tuesday 03-Oct-2023			Wednesday 04-Oct-2023	Thursday 05-Oct-2023	Friday 06-Oct-2023
09.00- 09.50	**Independent Learning**	**Independent Learning**			**Lecture** Approaches to Medicine *Adem Az*	**Independent Learning**	**Independent Learning**
10.00- 10.50		**ICP I/Clinical Skills Learning** Hand washing and wearing sterile gloves and masks *Lectures* **Group A**	**Scientific Research and Project I** Small group studies **Group B**	**Independent Learning** **Group C, D and E**	**Lecture** Approaches to Medicine *Adem Az*		
11.00- 11.50	**Lecture** Nature of Light, Electromagnetic Spectrum *Bilge Güvenç Tuna*				**Lecture** Medicine In Prehistoric Times *Adem Az*	**Lecture** Molecular Composition of Cells *Seda Güleç Yılmaz*	**Lecture** Electron microscopy *Alev Cumbul*
12.00- 12.50	**Lecture** Lenses; Lens-maker Equation *Bilge Güvenç Tuna*				**Lecture** Medicine In Prehistoric Times *Adem Az*	**Lecture** Macromolecules *Seda Güleç Yılmaz*	**Lecture** Other Histologic Methods *Alev Cumbul*
13.00- 13.50	**Lunch Break**	**Lunch Break**			**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Laboratory / Anatomy** Bones of The Upper Limb *Edibe Bilişli & Ahmet Saç* **Group A**	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*			**Lecture** Egytptian Medicine *Adem Az*	**Common Compulsory Course** Humanities *Instructor*	**Laboratory / Anatomy** Bones of The Lower Limb *Edibe Bilişli & Ahmet Saç* **Group A**
15.00- 15.50	**Laboratory / Anatomy** Bones of The Upper Limb *Edibe Bilişli & Ahmet Saç* **Group B**				**Lecture** Egytptian Medicine *Adem Az*		**Laboratory / Anatomy** Bones of The Lower Limb *Edibe Bilişli & Ahmet Saç* **Group B**
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History of Modern Turkey *Instructor*	**Independent Learning**			**Independent Learning**	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Independent Learning**
17.00-17.50							

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
IV. WEEK / 09– 13 Oct 2023

<table>
<tr><th></th><th colspan="3">Monday
09-Oct-2023</th><th colspan="3">Tuesday
10-Oct-2023</th><th>Wednesday
11-Oct-2023</th><th>Thursday
12-Oct-2023</th><th>Friday
13-Oct-2023</th></tr>
<tr><td>09.00- 09.50</td><td colspan="3">Independent Learning</td><td colspan="3">Independent Learning</td><td>Lecture
Reflection and Refraction of Light
Bilge Güvenç Tuna</td><td rowspan="2">Health Law
Basic legal concepts
Rağıp Barış ERMAN</td><td>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">ICP I/Clinical Skills Learning
Hand washing and wearing sterile gloves and masks
Lectures
Group B</td><td rowspan="3">Scientific Research and Project I
Small group studies
Group C</td><td rowspan="3">Independent Learning
Group A, D and E</td><td rowspan="3">ICP I/Clinical Skills Learning
Hand washing and wearing sterile gloves and masks
Lectures
Group C</td><td rowspan="3">Scientific Research and Project I
Small group studies
Group D</td><td rowspan="3">Independent Learning
Group A, B and E</td><td>Lecture
Bio-optics: Vision and Eye, Refraction errors
Bilge Güvenç Tuna</td><td>Introductory Session
Orientation for Committee Examinations
Phase I Coordinators</td></tr>
<tr><td>11.00- 11.50</td><td rowspan="2">Laboratory / Histology&Embryology
Microscopy
Aylin Yaba Uçar & Alev Cumbul
Group A</td><td>Lecture
Alkalens
Cenk Andaç</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>12.00- 12.50</td><td>Lecture
Alkalens
Cenk Andaç</td></tr>
<tr><td>13.00- 13.50</td><td colspan="3">Lunch Break</td><td colspan="3">Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td colspan="3">Lecture
Methods of Histology; Tissue Processing
Aylin Yaba Uçar</td><td colspan="3" rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="2">Laboratory / Histology&Embryology
Microscopy
Aylin Yaba Uçar & Alev Cumbul
Group B</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td><td>Introductory Session
Introduction to Problem Based Learning (PBL)
PBL Coordinators</td></tr>
<tr><td>15.00- 15.50</td><td colspan="3">Lecture
Methods of Histology; Immunohistochemistry
Aylin Yaba Uçar</td><td rowspan="2">Health Law
Branches of law
Rağıp Barış ERMAN</td></tr>
<tr><td>16.00- 16.50</td><td colspan="3" rowspan="2">Common Compulsory Course
Atatürk's Principles & History of Modern Turkey
Instructor</td><td colspan="3" rowspan="2">Independent Learning</td><td rowspan="2">Independent Learning</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td></tr>
<tr><td>17.00-17.50</td><td>Independent Learning</td></tr>
</table>

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
V. WEEK / 16– 20 Oct 2023

<table>
<tr><th></th><th>Monday
16-Oct-2023</th><th colspan="3">Tuesday
17-Oct-2023</th><th>Wednesday
18-Oct-2023</th><th>Thursday
19-Oct-2023</th><th>Friday
20-Oct-2023</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="2">PROBLEM BASED LEARNING ORIENTATION DAY</td><td colspan="3">Independent Learning</td><td></td><td>Lecture
Optical Properties of Microscopes
Bilge Güvenç Tuna</td><td>Lecture
Chinese Medicine
Adem Az</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">ICP I/Clinical Skills Learning Hand washing and wearing sterile gloves and masks
Lectures
Group D</td><td rowspan="3">Scientific Research and Project I
Small group studies
Group E</td><td rowspan="3">Independent Learning Group A, B and C</td><td>Lecture
Optical Aberrations
Bilge Güvenç Tuna</td><td>Lecture
Optical Properties of Microscopes
Bilge Güvenç Tuna</td><td>Lecture
Chinese Medicine
Adem Az</td></tr>
<tr><td>11.00- 11.50</td><td>Independent Learning</td><td>Lecture
Alkenes
Cenk Andaç</td><td>Lecture
Alkines
Cenk Andaç</td><td>Lecture
Assryo-Babylonian Medicine
Adem Az</td></tr>
<tr><td>12.00- 12.50</td><td rowspan="2">PROBLEM BASED LEARNING ORIENTATION DAY</td><td>Lecture
Alkenes
Cenk Andaç</td><td>Lecture
Alkines
Cenk Andaç</td><td>Lecture
Assryo-Babylonian Medicine
Adem Az</td></tr>
<tr><td>13.00- 13.50</td><td colspan="3">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">Independent Learning</td><td colspan="3" rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="2">Health Law
International legal documents
Rağıp Barış ERMAN</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td><td rowspan="2">Lecture
Introduction to Physiology and Homeostasis
Bayram Yılmaz</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Atatürk's Principles & History of Modern Turkey
Instructor</td><td colspan="3" rowspan="2">Independent Learning</td><td rowspan="2">Independent Learning</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td></tr>
</table>

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VI. WEEK / 23 – 27 Oct 2023

<table>
<tr><th></th><th>Monday
23-Oct-2023</th><th colspan="3">Tuesday
24-Oct-2023</th><th>Wednesday
25-Oct-2023</th><th>Thursday
26-Oct-2023</th><th>Friday
27-Oct-2023</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="2">Independent Learning</td><td colspan="3">Independent Learning</td><td rowspan="2">Independent Learning</td><td rowspan="2">Independent Learning</td><td rowspan="5">Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">ICP I/Clinical Skills Learning Hand washing and wearing sterile gloves and masks
Lectures
Group E</td><td rowspan="3">Scientific Research and Project I
Small group studies
Group A</td><td rowspan="3">Independent Learning
Group B, C and D</td></tr>
<tr><td>11.00- 11.50</td><td>Lecture
Membrane Impedance, Bioelectrical Activity
Bilge Güvenç Tuna</td><td>Lecture
Electric Charges, Electric Field
Bilge Güvenç Tuna</td><td>Lecture
Stereochemistry
Cenk Andaç</td></tr>
<tr><td>12.00- 12.50</td><td>Lecture
Electric Current Effects on Human Tissue
Bilge Güvenç Tuna</td><td>Lecture
Electrical Security Systems
Bilge Güvenç Tuna</td><td>Lecture
Stereochemistry
Cenk Andaç</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>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Health Law
Patients' rights
Rağıp Barış ERMAN</td><td colspan="3" rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="2">Health Law
Physicians rights and responsibilities
Rağıp Barış ERMAN</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td><td rowspan="4">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
Atatürk's Principles & History of Modern Turkey
Instructor</td><td colspan="3" rowspan="2">Independent Learning</td><td rowspan="2">Independent Learning</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td></tr>
<tr><td>17.00-17.50</td></tr>
</table>

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VII. WEEK / 30 Oct – 03 Nov 2023

	Monday 30-Oct-2023	Tuesday 31-Oct-2023	Wednesday 01-Nov-2023	Thursday 02-Nov-2023	Friday 03-Nov-2023
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	**Independent Learning**	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Assessment Session** **Anatomy,** **Histology & Embryology** **(Practical Exam)**	**Common Compulsory Course** Humanities *Instructor*	**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** Atatürk's Principles & History of Modern Turkey *Instructor*			**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Independent Learning**
17.00-17.50					

MED 104- COMMITTEE II - CELL

DISTRIBUTION of LECTURE HOURS 06 November 2023 – 29 December 2023

COMMITTEE DURATION: 8 WEEKS

COURSES					
MED 104	**BASIC MEDICAL SCIENCES I** **DISCIPLINE/COMPONENTS**	**THEO.**	**PRAC./LAB.**	**SMALL GROUP DISCUSSION**	**TOTAL**
	ANATOMY	8	2Grx3H	0	11
	BIOPHYSICS	14	0	0	14
	HISTOLOGY and EMBRYOLOGY	14	2Grx2H	0	16
	MEDICAL BIOLOGY	20	5Gx2H	0	22
	MEDICAL HISTORY & ETHICS	6		0	6
	MEDICAL MICROBIOLOGY	10	0	0	12
	ORGANIC CHEMISTRY	12	0	0	10
	PHYSIOLOGY	6	4Grx1H	0	7
	SCIENTIFIC PROJECT I	0	0	5Grx3H	3
	HEALTH LAW	18	0	0	18
	PBL	0	0	6	6
	TOTAL	**108**	**8**	**9**	**125**
MED 102	**INTRODUCTION to CLINICAL PRACTICE I (ICP- I)**	15	5Grx4H		20
MED 103	**ANATOMICAL DRAWING**	0	8		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				**73**

Coordination Committee	Head	Deniz KIRAÇ, PhD, 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	DISCIPLINES	LECTURERS
MED 104- BASIC MEDICAL SCIENCES	ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof. LAB: Edibe BİLİŞLİ KARA, DVM, Lecturer Ahmet SAÇ, MD, Instructor
	BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Prof.
		Alev CUMBUL, PhD, Assoc.Prof.
	MEDICAL BIOLOGY	Ayşe ÖZER, PhD, Prof.
		Soner DOĞAN, PhD, Prof.
		Deniz KIRAÇ, PhD, Prof.
		Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof.
	MEDICAL HISTORY & ETHICS	Elif VATANOĞLU-LUTZ, MD, Prof.
		Adem AZ, MD, Instructor
	HEALTH LAW	Rağıp Barış ERMAN, Assist. Prof.
	MEDICAL MICROBIOLOGY	Güner SÖYLETİR, MD, Prof.
		Pınar ÇIRAGİL, MD, Prof.
		Sibel ERGÜVEN, MD, Prof.
		Nilgün ÇERİKÇİOĞLU, MD, Prof.
		Pınar ÇIRAGİL, MD, Prof.
	ORGANIC CHEMISTRY	Cenk ANDAÇ, PhD, Assist. Prof.
	PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
		Mehtap KAÇAR, MD, PhD, Prof.
		Burcu GEMİCİ BAŞOL, PhD, Prof.
	SCIENTIFIC RESEARCH and PROJECT I	Aylin YABA UÇAR, PhD, Prof. (Responsible Faculy Member/Lecturer)

MED 102-INTRODUCTION to CLINICAL PRACTICE I (ICP- I)		Güldal İZBIRAK, MD, Prof.
		Serdar ÖZDEMİR, MD, Assist. Prof.
		Sezgin SARIKAYA, MD., Prof.
		Gökhan GENÇER, MD. Assist. Prof.
		Cem ŞİMŞEK, MD. Assist. Prof.
		Hande CANDEMİR, MD. Assist. Prof
		F.Atakan GÜLTEKİN, MD, Instructor
		Ayfer İSKENDER, MD, Instructor
		Rabia SARIYILDIZ, MD, Instructor
		Y.Emre VURAL, MD, Instructor
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 define molecular architecture of cell.
16.0 define human genome structure.
17.0 explain the roles of DNA and RNA in the maintance of living organism.
18.0 describe main concepts of DNA replication, translation and protein synthesis.
19.0 define control mechanisms of gene regulation.
20.0 define molecular mechanism of cell division and cell cycle.
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.
26.0 define the rights of the patient and physician, particularly the right to self determination and informed consent,protection of patients' personal data

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	7	4	4	15
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. A. S. Özer Dr. S. Doğan Dr. D. Kıraç Dr. S. Güleç Yılmaz	18	9	9	36
21.0	MEDICAL HISTORY& ETICS	Dr. A. Az	6	3	3	12
22.1, 22.2	MEDICAL MICROBIOLOGY	Dr. Söyletir Dr. Çıragil Dr. Ergüven Dr. Çerikçioğlu	11	5	5	21
23.0, 24.0	ORGANIC CHEMISTRY	Dr. C. Andaç	9	5	5	19
25.0	PBL	PBL Scenario	1	-	-	1
26.0	HEALTH LAW	Dr. Rağıp Barış ERMAN	16	8	8	32
		TOTAL	**100**	**49/200#**	**49/200#**	**198**

LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS
		LPE
1.0, SKILLS 1.0	ANATOMY	40
4.0-10.0 SKILLS 1.0	HISTOLOGY & EMBRYOLOGY	25
15.0-20.0, SKILLS 1.0	MEDICAL BIOLOGY	25
11.0-14.0, SKILLS 1.0	PHYSIOLOGY	10
	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 **49** 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
PBL-P: Evaluation of PBL Student's Performance

COMMITTEE II – CELL
I. WEEK / 06-10 Nov 2023

	Monday 06-Nov-2023	Tuesday 07-Nov-2023	Wednesday 08-Nov-2023	Thursday 09-Nov-2023	Friday 10-Nov-2023
09.00- 09.50	**PBL Session**	**Independent Learning**	**ICP I Lecture** Basic Life Support and Heimlich Maneuver *H.Candemir*	**Lecture** Nuclear Stability *Bilge Güvenç Tuna*	**Independent Learning**
10.00- 10.50		**ICP I Lecture** *Introduction to the First Aid Programmes* *G.Gençer*	**ICP I Lecture** Basic Life Support and Heimlich Maneuver *H.Candemir*	**Lecture** Radiation Biophysics: Nucleus and Radioactivity *Bilge Güvenç Tuna*	
11.00- 11.50		**ICP I Lecture** *Basic Human Body* *G.Gençer*	**Lecture** Organelles *Seda Güleç Yılmaz*	**Lecture** Nucleophilic substitution reactions *Cenk Andaç*	**Lecture** Cell; General Specification *Alev Cumbul*
12.00- 12.50	**Independent Learning**	**ICP I Lecture** *Scene Assessment* *G.Gençer*	**Lecture** Cell Membrane *Seda Güleç Yılmaz*	**Lecture** Nucleophilic substitution reactions *Cenk Andaç*	**Lecture** Cell; General Specification *Alev Cumbul*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Independent Learning**	**Common Compulsory Course** **Anatomical Drawing** *Refik Aziz*	**Health Law** Patient autonomy *Rağıp Barış ERMAN*	***Common Compulsory Course*** ***Humanities*** *Instructor*	**ICP I Lecture** Shock and Bleeding Control *H.Candemir*
15.00- 15.50	**Introductory Session** **Introduction to Committee II** *Secretary of Committee II*		**Health Law** Patient autonomy *Rağıp Barış ERMAN*		**ICP I Lecture** Burns, Freezing, Frostbite *H.Candemir*
16.00- 16.50	**Common Compulsory Course** **Atatürk's Principles & History of Modern Turkey** *Instructor*	**Independent Learning**	**Lecture** Introduction to basic microbiology and applications *Pınar Çıragil*	**Common Compulsory Course** **Turkish Language & Literature** *Instructor*	**Independent Learning**
17.00-17.50			**Independent Learning**		

COMMITTEE II – CELL
II. WEEK / 13– 17 Nov 2023

	Monday 13-Nov-2023	Tuesday 14-Nov-2023	Wednesday 15-Nov-2023	Thursday 16-Nov-2023	Friday 17-Nov-2023
09.00- 09.50	**PBL Session**	**ICP I Lecture** Injuries *G.Gençer*	**ICP I Lecture** Drowning *H.Candemir*	**Lecture** Cytoskeleton ***Seda Güleç Yılmaz***	**Lecture** Introduction to Embryology and Human Devopmental Period ***Alev Cumbul***
10.00- 10.50		**ICP I Lecture** Foreign Objects *G.Gençer*	**ICP I Lecture** Poisoning *H.Candemir*	**Lecture** Extracellular Matrix ***Seda Güleç Yılmaz***	**Lecture** Introduction to Embryology and Human Devopmental Period ***Alev Cumbul***
11.00- 11.50		**ICP I Lecture** Fractures and Dislocation *G.Gençer*	**Lecture** Distribution of Substances in Body Fluids ***Burcu Gemici Başol***	**Lecture** Aromatic compounds and electrophilic aromatic substitution reactions *Cenk Andaç*	**Lecture** Vertebral Column, Ribs and Sternum ***Erdem Söztutar***
12.00- 12.50	**Independent Learning**	**ICP I Lecture** The Unconscious Casualty *G.Gençer*	**Lecture** Cell Membrane ***Burcu Gemici Başol***		**Lecture** Vertebral Column, Ribs and Sternum ***Erdem Söztutar***
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Cell Cycle and Cell Death ***Alev Cumbul***	**Common Compulsory Course** **Anatomical Drawing** ***Refik Aziz***	**Lecture** Interaction of Radiation with Matter *Bilge Güvenç Tuna*	***Common Compulsory Course*** ***Humanities*** ***Instructor***	**Lecture** Classification and General Structures of Bacteria ***Pınar Çıragil***
15.00- 15.50	**Lecture** Meiosis ***Alev Cumbul***		**Lecture** Interaction of X or Gamma Rays with Matter *Bilge Güvenç Tuna*		**Lecture** Classification and General Structures of Bacteria ***Pınar Çıragil***
16.00- 16.50	**Common Compulsory Course** **Atatürk's Principles & History of Modern Turkey** *Instructor*	**Independent Learning**	**Health Law** Privacy and data protection *Rağıp Barış ERMAN*	**Common Compulsory Course** **Turkish Language & Literature** ***Instructor***	**Independent Learning**
17.00-17.50			**Health Law** Privacy and data protection *Rağıp Barış ERMAN*		

COMMITTEE II –CELL
III. WEEK / 20 - 24 November 2023

	Monday 20-Nov-2023	Tuesday 21-Nov-2023	Wednesday 22-Nov-2023	Thursday 23-Nov-2023	Friday 24-Nov-2023
09.00- 09.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Sezgin Sarıkaya / Y.Emre Vural*	**Independent Learning**	**Lecture** Photoelectric Action, Compton Action ***Bilge Güvenç Tuna***	**Laboratory / Anatomy** Vertebral Column, Ribs and Sternum ***Edibe Bilişli & Dr. Ahmet Saç*** **Group A**
10.00- 10.50	**ICP I Lecture** Insect Bite *G.Gençer*	**Group A** / **Scientific Research and Project I Small group studies Group B** / **Independent Learning**	**Lecture** Osmotic Pressure and Permeability of The Cell Membrane ***Burcu Gemici Başol***	**Lecture** Half Value Layer, Attenuation ***Bilge Güvenç Tuna***	**Laboratory / Anatomy** Vertebral Column, Ribs and Sternum ***Edibe Bilişli & Dr. Ahmet Saç*** **Group B**
11.00- 11.50	**ICP I Lecture** Patient-Casualty Transportation Techniques *G.Gençer*		**Lecture** Transport of Substances Through the Cell Membrane ***Burcu Gemici Başol***	**Lecture** Alkylhalides, alcohols and ethers *Cenk Andaç*	**Lecture** Structure of Nucleic Acids (DNA and RNA) and Replication *Ayşe Özer*
12.00- 12.50	**Lecture** Cell-cell Interactions, cell junctions ***Seda Güleç Yılmaz***		**Lecture** Human Genome Structure *Ayşe Özer*	**Lecture** Alkylhalides, alcohols and ethers *Cenk Andaç*	**Lecture** Structure of Nucleic Acids (DNA and RNA) and Replication *Ayşe Özer*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Gametogenesis; Spermatogenesis ***Alev Cumbul***	**Common Compulsory Course** **Anatomical Drawing** ***Refik Aziz***	**Health Law** Informed consent *Rağıp Barış ERMAN*	***Common Compulsory Course*** ***Humanities*** ***Instructor***	**Lecture** Bacterial Metabolism ***Nilgün ÇERİKÇİOĞLU***
15.00- 15.50	**Lecture** Gametogenesis; Spermatogenesis ***Alev Cumbul***		**Health Law** Informed consent *Rağıp Barış ERMAN*		**Independent Learning**
16.00- 16.50	**Common Compulsory Course** **Atatürk's Principles & History of Modern Turkey** *Instructor*	**Independent Learning**	**Lecture** Bacterial Genetics ***Pınar Çıragil***	**Common Compulsory Course** **Turkish Language & Literature** ***Instructor***	
17.00-17.50			**Independent Learning**		

COMMITTEE II – CELL
IV. WEEK / 27 Nov – 01 Dec 2023

<table>
<tr><th></th><th>Monday
27-Nov-2023</th><th>Tuesday
28-Nov-2023</th><th>Wednesday
29-Nov-2023</th><th>Thursday
30-Nov-2023</th><th>Friday
01-Dec-2023</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="2">Independent Learning</td><td colspan="3">Clinical Skills Learning
ICP I
Basic Life Support and Heimlich Maneuver
Sezgin Sarıkaya / F.Atakan Gültekin</td><td>Lecture
Indian Medicine
Adem Az</td><td>Lecture
Radiation Protection (Safety)
Bilge Güvenç Tuna</td><td>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Group B</td><td rowspan="3">Scientific Research and Project I
Small group studies
Group C</td><td rowspan="3">Independent Learning</td><td>Lecture
Greek Medicine
Adem Az</td><td>Lecture
Units of Radioactivity
Bilge Güvenç Tuna</td><td>Lecture
Neurocranium
Erdem Söztutar</td></tr>
<tr><td>11.00- 11.50</td><td>Lecture
Transport of Substances Through the Cell Membrane
Bucu Gemici Başol</td><td>Lecture
Greek Medicine
Adem Az</td><td>Lecture
Alkylhalides, alcohols and ethers
Cenk Andaç</td><td>Lecture
First Week of Development: Fertilization
Aylin Yaba Uçar</td></tr>
<tr><td>12.00- 12.50</td><td>Lecture
Transport of Substances Through the Cell Membrane
Bucu Gemici Başol</td><td>Lecture
Galen
Adem Az</td><td>Lecture
Aldehydes and ketones
Cenk Andaç</td><td>Lecture
First Week of Development: Cleavage and Formation of Blastocyst
Aylin Yaba Uçar</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>Lecture
Gametogenesis; Oogenesis and Folliculogenesis
Aylin Yaba Uçar</td><td colspan="3" rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Medicine In Medieval Ages and Renaissance
Adem Az</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td><td>Lecture
Classification and General Structures of Fungi
Nilgün ÇERİKÇİOĞLU</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Ovarian and Uterinal Cycle
Aylin Yaba Uçar</td><td>Lecture
Medicine In Medieval Ages and Renaissance
Adem Az</td><td>Lecture
Classification and General Structures of Fungi
Nilgün ÇERİKÇİOĞLU</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Atatürk's Principles & History of Modern Turkey
Instructor</td><td colspan="3" rowspan="2">Independent Learning</td><td>Health Law
Proving consent
Rağıp Barış ERMAN</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td><td>Health Law
Proving consent
Rağıp Barış ERMAN</td></tr>
</table>

COMMITTEE II – CELL V. WEEK / 04 - 08 Dec 2023

<table>
<tr><th></th><th>Monday
04-Dec-2023</th><th>Tuesday
05-Dec-2023</th><th>Wednesday
06-Dec-2023</th><th>Thursday
07-Dec-2023</th><th>Friday
08-Dec-2023</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="2">Independent Learning</td><td colspan="3">Clinical Skills Learning
ICP I
Basic Life Support and Heimlich Maneuver
Cem Şimşek / Rabia Sarıyıldız</td><td>Lecture
Types of Mutations
Soner Doğan</td><td rowspan="2">Laboratory / Histology&Embryology
Developing Human-I
Aylin Yaba Uçar & Alev Cumbul
Group A</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Group C</td><td rowspan="3">Scientific Research and Project I Small group studies Group D</td><td rowspan="3">Independent Learning</td><td>Lecture
DNA Damage and Repair Mechanism
Ayşe Özer</td></tr>
<tr><td>11.00- 11.50</td><td>Health Law
Presumed consent
Rağıp Barış ERMAN</td><td>Lecture
Radioisotopes in Medicine
Bilge Güvenç Tuna</td><td rowspan="2">Laboratory / Histology&Embryology
Developing Human-I
Aylin Yaba Uçar & Alev Cumbul
Group B</td><td>Laboratory / Anatomy
Neurocranium
Edibe Bilişli & Dr. Ahmet Saç
Group B</td></tr>
<tr><td>12.00- 12.50</td><td>Health Law
Presumed consent
Rağıp Barış ERMAN</td><td>Lecture
Biological mechanisms of Radiation
Bilge Güvenç Tuna</td><td>Laboratory / Anatomy
Neurocranium
Edibe Bilişli & Dr. Ahmet Saç
Group A</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>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td>Lecture
Second Week of Development: Implantation and Bilaminar Germ Disc Formation
Aylin Yaba Uçar</td><td colspan="3" rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Neurocranium
Erdem Söztutar</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td><td>Lecture
Classification and General Structures of Parasites
Sibel Ergüven</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Third Week of Development:Gastrulation; Primitive Streak, Notochord Formation
Alev Cumbul</td><td>Lecture
Neurocranium
Erdem Söztutar</td><td>Lecture
Classification and General Structures of Parasites
Sibel Ergüven</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Atatürk's Principles & History of Modern Turkey
Instructor</td><td colspan="3" rowspan="2">Independent Learning</td><td>Health Law
Forced treatment
Rağıp Barış ERMAN</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td><td>Health Law
Forced treatment
Rağıp Barış ERMAN</td></tr>
</table>

COMMITTEE II – CELL
VI. WEEK / 11 -15 December 2023

	Monday 11-Dec-2023	Tuesday 12-Dec-2023	Wednesday 13-Dec-2023	Thursday 14-Dec-2023	Friday 15-Dec-2023
09.00- 09.50	**Laboratory / Physiology** Osmosis & Diffusion ***Burcu Gemici Başol*** **Group A**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Gökhan Gencer / Ayfer İskender*	**Laboratory / Med. Biology** Nucleic Acid Purification **A. Özer, S. Doğan, D. Kıraç, S. Güleç yılmaz** **Group B**	**Laboratory / Med. Biology** Nucleic Acid Purification **A. Özer, S. Doğan, D. Kıraç, S. Güleç yılmaz** **Group E**	**Independent Learning**
10.00- 10.50	**Laboratory / Physiology** Osmosis & Diffusion ***Burcu Gemici Başol*** **Group B**	**Group D** / **Scientific Research and Project I Small group studies Group E** / **Independent Learning**			
11.00- 11.50	**Laboratory / Physiology** Osmosis & Diffusion ***Burcu Gemici Başol*** **Group C**		**Laboratory / Med. Biology** Nucleic Acid Purification **A. Özer, S. Doğan, D. Kıraç, S. Güleç yılmaz** **Group C**	**Laboratory / Med. Biology** Nucleic Acid Purification **A. Özer, S. Doğan, D. Kıraç, S. Güleç yılmaz** **Group A**	**Lecture** Protein Synthesis ***Ayşe Özer***
12.00- 12.50	**Laboratory / Physiology** Osmosis & Diffusion ***Burcu Gemici Başol*** **Group D**				**Lecture** Protein Synthesis ***Ayşe Özer***
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Transcription ***Ayşe Özer***	**Common Compulsory Course** **Anatomical Drawing** ***Refik Aziz***	**Laboratory / Med. Biology** Nucleic Acid Purification **A. Özer, S. Doğan, D. Kıraç, S. Güleç yılmaz** **Group D**	***Common Compulsory Course*** ***Humanities*** ***Instructor***	**Lecture** Classification and General Structures of Viruses ***Güner Söyletir***
15.00- 15.50	**Lecture** Transcription ***Ayşe Özer***				**Lecture** Classification and General Structures of Viruses ***Güner Söyletir***
16.00- 16.50	**Common Compulsory Course** **Atatürk's Principles & History of Modern Turkey** *Instructor*	**Independent Learning**	**Health Law** Euthanasia *Rağıp Barış ERMAN*	**Common Compulsory Course** **Turkish Language & Literature** ***Instructor***	**Independent Learning**
17.00-17.50			Euthanasia *Rağıp Barış ERMAN*		

COMMITTEE II – CELL
VII. WEEK / 18-22 December 2023

	Monday 18-Dec-2023	Tuesday 19-Dec-2023	Wednesday 20-Dec-2023	Thursday 21-Dec-2023	Friday 22-Dec-2023
09.00- 09.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Hande Candemir / Ayfer İskender*	**Lecture** Medical Imaging: Nuclear Medicine ***Bilge Güvenç Tuna***	**Lecture** Lasers in Medicine ***Bilge Güvenç Tuna***	**Laboratory / Anatomy** Viscerocranium ***Edibe Bilişli & Dr. Ahmet Saç*** **Group A**
10.00- 10.50	**Lecture** Viscerocranium ***Erdem Söztutar***	**Group E** / **Scientific Research and Project I Small group studies Group A** / **Independent Learning**	**Lecture** Medical Imaging: Applications of X-ray Attenuation & Detection ***Bilge Güvenç Tuna***	**Lecture** Lasers in Medicine ***Bilge Güvenç Tuna***	**Laboratory / Anatomy** Viscerocranium ***Edibe Bilişli & Dr. Ahmet Saç*** **Group B**
11.00- 11.50	**Lecture** Control of Gene Expression ***Ayşe Özer***		**Lecture** Viscerocranium ***Erdem Söztutar***	**Lecture** Aldehydes and ketones ***Cenk Andaç***	**Lecture** Cell Cycle ***Soner Doğan***
12.00- 12.50	**Lecture** Control of Gene Expression ***Ayşe Özer***		**Lecture** Viscerocranium ***Erdem Söztutar***	**Lecture** Nomenclature of carboxylic acids, esters and amines ***Cenk Andaç***	**Lecture** Cell Division Kinetics ***Soner Doğan***
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Health Law** Proxy agreement and liability ***Rağıp Barış ERMAN***	**Common Compulsory Course** **Anatomical Drawing** ***Refik Aziz***	**Health Law** Contractor agreement and liability *Rağıp Barış ERMAN*	***Common Compulsory Course*** ***Humanities*** ***Instructor***	**Lecture** Mitosis and Meiosis ***Deniz Kıraç***
15.00- 15.50	**Health Law** Proxy agreement and liability ***Rağıp Barış ERMAN***		**Health Law** Contractor agreement and liability *Rağıp Barış ERMAN*		**Lecture** Mitosis and Meiosis ***Deniz Kıraç***
16.00- 16.50	**Common Compulsory Course** **Atatürk's Principles & History of Modern Turkey** *Instructor*	**Independent Learning**	**Lecture** Sterilization and Disinfection ***Pınar Çıragil***	**Common Compulsory Course** **Turkish Language & Literature** ***Instructor***	**Independent Learning**
17.00-17.50			**Independent Learning**		

COMMITTEE II – CELL
VIII. WEEK / 25-29 December 2023

<table>
<tr><th></th><th>Monday
25-Dec-2023</th><th>Tuesday
26-Dec-2023</th><th>Wednesday
27-Dec-2023</th><th>Thursday
28-Dec-2023</th><th>Friday
29-Dec-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>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Assessment Session
Anatomy, Medical Biology, Histology & Embryology, Physiology

(Practical Exam)</td><td rowspan="3">Assessment Session
Committee I I
(MCQ)</td></tr>
<tr><td>11.00- 11.50</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="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td rowspan="2">Program Evaluation Session
Review of the Exam Questions
Evaluation of the Committee II Program
Head of Committee</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Independent Learning</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td></tr>
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MED 104-COMMITTEE III - TISSUE I

DISTRIBUTION of LECTURE HOURS January 02, 2024 – February 23, 2024
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
	HEALTH LAW	14	0	0	14
	MEDICAL BIOLOGY	10	5Grx2H	0	12
	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	**83**	**17**	**9**	**109**
MED 102	**INTRODUCTION to CLINICAL PRACTICE-I**	7	5Grx4H	0	11
MED 103	**ANATOMICAL DRAWING**	0	12	0	12
HTR 302	**ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	2	0	0	2
MED 611-MED 637	**FREE ELECTIVE COURSE**	6	0	0	6
TKL 202	**TURKISH LANGUAGE & LITERATURE**	2	0	0	2
	INDEPENDENT LEARNING HOURS	0	0	0	80

Coordination Committee	Head	Burcu GEMİCİ BAŞOL, PhD. Prof.
	Secretary	ELİF ÇİĞDEM KELEŞ, PhD, Assist. Prof.
	Member	Soner DOĞAN, PhD. Prof.
	Member	Alev CUMBUL, PhD, Assoc. Prof.

COMMITTEE III –TISSUE I
LECTURERS

COURSES	DISCIPLINE	LECTURERS
MED 104-BASIC MEDICAL SCIENCES I	ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof. LAB: Edibe BİLİŞLİ KARA, DVM, Lecturer Ahmet SAÇ, MD, Instructor
	BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Prof. Dr.
		Alev CUMBUL, PhD, Assoc. Prof.
	HEALTH LAW	Rağıp Barış ERMAN, Assist. Prof.
	MEDICAL BIOLOGY	Ayşe ÖZER, PhD, Prof.
		Soner DOĞAN, PhD, Prof.
		Deniz KIRAÇ, PhD, Prof.
		Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof.
	MEDICAL HISTORY & ETHICS	Elif VATANOĞLU LUTZ, MD. Prof.
	PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
		Mehtap KAÇAR, MD, PhD, Prof.
		Burcu GEMİCİ BAŞOL, PhD, Prof. Dr.
	SCIENTIFIC RESEARCH AND PROJECT I	Aylin Yaba UÇAR, PhD, Prof. Dr. (Responsible Faculy Member/Lecturer)
	IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof.
MED 102-INTRODUCTION to CLINICAL PRACTICE I (ICP-I)		Tümay SADIKOĞLU, MD, Instructor
		Serdar ÖZDEMİR, MD, Assist. Prof.
		Sezgin SARIKAYA, MD. Prof.
		Cem ŞİMŞEK, Assist. Prof.
		Hande CANDEMİR, MD. Assist. Prof
		Gökhan GENÇER, MD. Assist. Prof.
		Rabia SARIYILDIZ, MD , Instructor
		F.Atakan GÜLTEKİN, MD, Instructor
		Y.Emre VURAL, MD, Instructor
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.
19.0 define molecular mechanism of signal transduction, cell death and cancer
20.0 define chromosome structure and abnormalities
21.0 explain tools in medical biology and their use in medical clinics
22.0 define defensive medical practices, complications, malpractice, its legal consequences and liability

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	22	8	8	38
5.0, 7.0	BIOPHYSICS	Dr. B.Güvenç Tuna	12	5	5	22
8.0 -12.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	16	6	6	28
19.0-21.0	MEDICALBIOLOGY	Soner DOĞAN, PhD, Prof. Deniz KIRAÇ, PhD, Prof.	12	5	5	22
13.0	MEDICAL HISTORY & ETHICS	Dr. E. Vatanoğlu Lutz	5	2	2	9
14.0 -16.0	PHYSIOLOGY	Dr. B. Gemici Başol	10	4	4	18
17.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	5	2	2	9
18.0	PBL	PBL Scenario	1	-	-	1
22.0	HEALTH LAW	Dr. Rağıp Barış ERMAN	17	6	6	29
		TOTAL	**100**	**38/200#**	**38/200#**	**176**

LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS
		LPE
1.0 - 4.0 SKILLS 1.0	ANATOMY	30
8.0 – 12.0 SKILLS 1.0	HISTOLOGY & EMBRYOLOGY	35
14.0 -16.0 SKILLS 1.0	PHYSIOLOGY	25
19.0-21.0 , SKILLS 1.0	MEDICAL BIOLOGY	10
	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 **38** 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

PBL-P: Evaluation of PBL Student's Performance

COMMITTEE III - TISSUE I
I. WEEK / 01 Jan –05 Jan 2024

	Monday 01-Jan-2024	Tuesday 02-Jan-2024	Wednesday 03-Jan-2024	Thursday 04-Jan-2024	Friday 05-Jan-2024
09.00- 09.50	New Year	**Clinical Skills Learning ICP I** Patient-Casualty Transportation / Bandaging Techniques *Sezgin Sarıkaya / Yunus Emre Vural*	**Introductory Session** Introduction to Committee III *Secretary of Committee III*	**Lecture** Skeletal Muscle Physiology *Burcu Gemici Başol*	**Lecture** Histology of Glandular Epithelium *Aylin Yaba Uçar*
10.00- 10.50		**Group A** / **Group B Scı. Res. & P. I Small Group Studies** / **Group B and Independent Learning**	**Lecture** Neuromuscular Transmission *Burcu Gemici Başol*	**Lecture** Membrane Potentials and Action Potentials *Burcu Gemici Başol*	**Lecture** Histology of Muscle Tissue; General Specification *Alev Cumbul*
11.00- 11.50			**Lecture** Introduction to Arthrology *Erdem Söztutar*	**Lecture** Histology of Covering Epithelium; Structure, Classification *Aylin Yaba Uçar*	**Lecture / SRPC I** Scientific Study Design and Types of Scientific Research *Aylin Yaba Uçar*
12.00- 12.50			**Lecture** Introduction to Arthrology *Erdem Söztutar*	***Lecture*** *Histology of Covering Epithelium; Surface Specification* *Aylin Yaba Uçar*	**Lecture / SRPC I** How to Prepare and Write a Scientific Project? *Aylin Yaba Uçar*
13.00- 13.50		**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Asymmetric Distribution& Transport of Ions *Bilge Güvenç Tuna*	**Lecture** Joints of the Upper Limb *Erdem Söztutar*	**Introduction to Elective Courses**
15.00- 15.50			**Lecture** Asymmetric Distribution& Transport of Ions *Bilge Güvenç Tuna*	**Lecture** Joints of the Upper Limb *Erdem Söztutar*	
16.00- 16.50		Independent Learning	**Health Law** Complication and malpractice *Rağıp Barış ERMAN*	**Lecture** Joints of the Upper Limb *Erdem Söztutar*	**Laboratory/Anatomy** Joints of the Upper Limb *Edibe Bilişli & Dr. Ahmet Saç / Gr A*
17.00-17.50				**Independent Learning**	**Laboratory/Anatomy** Joints of the Upper Limb *Edibe Bilişli & Dr. Ahmet Saç / Gr B*

COMMITTEE III - TISSUE I
II. WEEK / 08 Jan– 12 Jan 2024

	Monday 8-Jan-2024	Tuesday 09-Jan-2024	Wednesday 10-Jan-2024	Thursday 11-Jan-2024	Friday 12-Jan-2024
09.00- 09.50	**PBL Session**	**Clinical Skills Learning ICP I** Patient-Casualty Transportation / Bandaging Techniques *Sezgin Sarıkaya / Fahrettin Atakan Gültekin*	**Lecture** Histology of Striated Skeletal Muscle *Alev Cumbul*	**Independent Learning**	**Lecture** Development of the Muscular System *Alev Cumbul*
10.00- 10.50		**Group B** / **Group C Scı. Res. & P. Small Group Studies** / **Group D and A Independent Learning**	**Lecture** Histology of Heart & Smooth Muscle *Alev Cumbul*	**Laboratory/Anatomy** Joints of Lower Limb *Edibe Bilişli & Dr. Ahmet Saç* *Group B* **Laboratory / Histology&Embryology** Histology of Epithelial Tissue *Alev Cumbul & Aylin Yaba Uçar* *Group A*	**Lecture** Histology of Connective Tissue; Extracellular Matrix *Alev Cumbul*
11.00- 11.50			**Lecture** Resting Membrane Potential: Ionic Balance *Bilge Güvenç Tuna*	**Laboratory/Anatomy** Joints of Lower Limb *Edibe Bilişli & Dr. Ahmet Saç* *Group A* **Laboratory / Histology&Embryology** Histology of Epithelial Tissue *Alev Cumbul & Aylin Yaba Uçar* *Group B*	**Lecture** Biophysical Modeling of Membrane & Ion Channels *Bilge Güvenç Tuna*
12.00- 12.50	**Independent Learning**		**Lecture** Nernst and Goldman Equations *Bilge Güvenç Tuna*	**Independent Learning**	**Lecture** Action potential: Rheobase and Chronaxie *Bilge Güvenç Tuna*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Joints of the Lower Limb *Erdem Söztutar*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Clinical Skills Learning ICP I** Patient-Casualty Transportation / Bandaging Techniques *Cem Şimşek / Ayfer İskender*	**Lecture** Joints of the Vertebral Column *Erdem Söztutar*	**Lecture** Membrane Potentials and Action Potentials *Burcu Gemici Başol*
15.00- 15.50	**Lecture** Joints of the Lower Limb *Erdem Söztutar*		***Group C*** / **Group D Scı. Res. & P. I Small Group Studies** / **Independent Learning**	**Lecture** Joints of the Axial Skeleton *Erdem Söztutar*	**Lecture** Cell Death and Molecular Mechanisms *Soner Doğan*
16.00- 16.50	**Lecture** Joints of the Lower Limb *Erdem Söztutar*	**Health Law** Criminal responsibility *Rağıp Barış ERMAN*		**Lecture** Signal Transduction *Deniz Yat Kıraç*	**Lecture** Molecular Mechanisms of Cancer *Deniz Yat Kıraç*
17.00-17.50	**Independent Learning**			**Lecture** Signal Transduction *Deniz Yat Kıraç*	**Lecture** Molecular Mechanisms of Cancer *Deniz Yat Kıraç*

COMMITTEE III - TISSUE I
III. WEEK / 15 Jan – 19 Jan 2024

	Monday 15-Jan-2024	Tuesday 16-Jan-2024	Wednesday 17-Jan-2024	Thursday 18-Jan-2024	Friday 19-Jan-2024
09.00- 09.50	PBL	**Clinical Skills Learning ICP I** Patient-Casualty Transportation / Bandaging Techniques *Gökhan Gençer / Ayfer İskender*	**Laboratory / Physiology** EMG I *Group A* *Burcu Gemici Başol*	**Independent Learning** **Laboratory / Histology&Embryology** Histology of Muscle Tissue *Alev Cumbul & Aylin Yaba Uçar* *Group B*	**Lecture** Histology of Connective Tissue; Cells *Alev Cumbul*
10.00- 10.50		**Group D** **Group E Sci. Res. & P. Small Group Studies** **Group D and A Independent Learning**	**Laboratory / Physiology** EMG I *Group B* *Burcu Gemici Başol*	**Laboratory/Anatomy** Joints of the Axial Skeleton *Edibe Bilişli & Dr. Ahmet Saç* *Group A*	**Lecture** Histology of Connective Tissue Proper; Types *Alev Cumbul*
11.00- 11.50			**Laboratory / Physiology** EMG I *Group C* *Burcu Gemici Başol*	**Laboratory/Anatomy** Joints of the Axial Skeleton *Edibe Bilişli & Dr. Ahmet Saç* *Group B* **Laboratory / Histology&Embryology** Histology of Muscle Tissue *Alev Cumbul & Aylin Yaba Uçar* *Group A*	**Lecture** Introduction to Myology *Erdem Söztutar*
12.00- 12.50	**Independent Learning**		**Laboratory / Physiology** EMG I *Group D* *Burcu Gemici Başol*	**Independent Learning**	**Lecture** Introduction to Myology *Erdem Söztutar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Joints of the Cranium and Fontanelles *Erdem Söztutar*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Physiology** EMG II *Group A* *Burcu Gemici Başol*	**Clinical Skills Learning ICP I** Patient-Casualty Transportation / Bandaging Techniques *Hande Candemir / Rabia Sarıyıldız*	**Lecture** Introduction to Peripheral Nervous System *Erdem Söztutar*
15.00- 15.50	**Lecture** Joints of the Cranium and Fontanelles *Erdem Söztutar*		**Laboratory / Physiology** EMG II *Group B* *Burcu Gemici Başol*	***Group E*** **Group A Sci. Res. & P. I Small Group Studies** **Independent Learning**	**Lecture** Spinal Nerves *Erdem Söztutar*
16.00- 16.50	**Lecture** Chromosome Structure and Function *Deniz Yat Kıraç*	**Independent Learning**	**Laboratory / Physiology** EMG II *Group C* *Burcu Gemici Başol*		**Laboratory/Anatomy** Joints of the Cranium *Erdem Söztutar* *Group B*
17.00-17.50	**Independent Learning**		**Laboratory / Physiology** EMG II *Group D* *Burcu Gemici Başol*		**Laboratory/Anatomy** Joints of the Cranium *Erdem Söztutar* *Group A*

MIDTERM BREAK

22 JAN 2024 - 02 FEB 2024

COMMITTEE III - TISSUE I
IV. WEEK / 05 Feb – 09 Feb 2023

	Monday 05-Feb-2024	Tuesday 06-Feb-2024	Wednesday 07-Feb-2024		Thursday 08-Feb-2024	Friday 09-Feb-2024
09.00- 09.50	**Lecture** Muscles of the Back *Erdem Söztutar*	**Independent Learning**	**Lecture** Contractile Machinery; Sliding Filament Theory *Bilge Güvenç Tuna*		**Lecture** Smooth Muscle Physiology *Burcu Gemici Başol*	**Lecture** Tools in Medical Biology *Deniz Yat Kıraç*
10.00- 10.50	**Lecture** Muscles of the Back and Nape *Erdem Söztutar*	**Lecture /ICP I** Lecture Introduction to Communication Skills *Tümay Sadıkoğlu*	**Lecture** Impulse Propagation *Bilge Güvenç Tuna*		**Lecture** Smooth Muscle Physiology *Burcu Gemici Başol*	**Lecture** Muscle Mechanic; Mechanical Powers of Cardiac Smooth and Skeletal Muscle *Bilge Güvenç Tuna*
11.00- 11.50	**Lecture** What is Immunology? *Gülderen Yanıkkaya Demirel*	**Lecture/ ICP I** Basic Communication Skills *Tümay Sadıkoğlu*	**Laboratory / Histology&Embryology** Histology of Connective Tissue and RBC *Alev Cumbul & Aylin Yaba Uçar Group B*	**Independent Learning**	**PROGRAM IMPROVEMENT SESSION** *Phase Coordinator*	**Lecture/ ICP I** The Medical Interview *Tümay Sadıkoğlu*
12.00- 12.50	**Lecture** What is Immunology? *Gülderen Yanıkkaya Demirel*	**Lecture /ICP I** Giving Information *Tümay Sadıkoğlu*		**Laboratory / Anatomy** Muscles of the Back *Edibe Bilişli & Dr. Ahmet Saç Group A*	**Lecture** Haematopoiesis *Aylin Yaba Uçar*	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**		**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Blood; RBC and Platelets *Aylin Yaba Uçar*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Histology&Embryology** Histology of Connective Tissue and RBC *Alev Cumbul & Aylin Yaba Uçar Group A*	**Laboratory / Anatomy** Muscles of the Back *Edibe Bilişli & Dr. Ahmet Saç Group B*	**Lecture** Smooth Muscle *Bilge Güvenç Tuna*	**Independent Learning**
15.00- 15.50	**Lecture** Blood WBC, Blood Smear *Aylin Yaba Uçar*			**Independent Learning**	**Lecture** Tools in Medical Biology *Soner Dogan*	
16.00- 16.50	**Lecture** Chromosomal Abnormalities *Deniz Yat Kıraç*	**Lecture** History Taking as a Clinical Skill *Tümay Sadıkoğlu*	**Health Law** Clinical trials *Rağıp Barış ERMAN*		**Health Law** Abortion and sterilisation *Rağıp Barış ERMAN*	
17.00-17.50	**Lecture** Chromosomal Abnormalities *Deniz Yat Kıraç*					

COMMITTEE III - TISSUE I

V. WEEK / 12 Feb – 16 Feb 2024

	Monday 12-Feb-2024	Tuesday 13-Feb-2024	Wednesday 14-Feb-2024	Thursday 15-Feb-2024		Friday 16-Feb-2024	
09.00- 09.50	**Lecture** Genetic Medicine *Adem Az*	**Independent Learning**	**Lecture** Physiology of Cardiac Muscle *Burcu Gemici Başol*	**Laboratory / Physiology** Smooth Muscle Contractility *Burcu Gemici Başol* *Group B*	**Laboratory / Medical Biology** Gene Identification in Cancer A. Özer, S. Doğan, D. Kıraç, S. Güleç yılmaz *Group A*	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Burcu Gemici Başol* *Group C*	**Laboratory / Medical Biology** Gene Identification in Cancer A. Özer, S. Doğan, D. Kıraç, S. Güleç yılmaz *Group B*
10.00- 10.50	**Lecture** History of our Future *Adem Az*			**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.) *Adem Az*	**ICP MIDTERM EXAM**	**Health Law** False documentation *Rağıp Barış ERMAN*	**Laboratory / Physiology** Smooth Muscle Contractility *Burcu Gemici Başol* *Group D*	**Laboratory / Medical Biology** Gene Identification in Cancer A. Özer, S. Doğan, D. Kıraç, S. Güleç yılmaz *Group C*	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Burcu Gemici Başol* *Group A*	**Laboratory / Medical Biology** Gene Identification in Cancer A. Özer, S. Doğan, D. Kıraç, S. Güleç yılmaz *Group D*
12.00- 12.50	**Lecture** Antibiotics, Cancer Therapy *Adem Az*			**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	**Health Law** Gender affirming care and surgery *Rağıp Barış ERMAN*	**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Health Law** Health tourism *Rağıp Barış ERMAN*	**Lecture** Cells and Tissues of Immune System *Gülderen Yanıkkaya Demirel*		**ELECTIVE WEEK I**	**Independent Learning**
15.00- 15.50				**Lecture** Cells and Tissues of Immune System *Gülderen Yanıkkaya Demirel*			
16.00- 16.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Laboratory / Medical Biology** Gene Identification in Cancer A. Özer, S. Doğan, D. Kıraç, S. Güleç yılmaz *Group E*		**Independent Learning**	**ELECTIVE WEEK I**
17.00-17.50							

COMMITTEE III - TISSUE I
VI. WEEK / 19 Feb – 23 Feb 2024

<table>
<tr><th></th><th>Monday
19-Feb-2024</th><th>Tuesday
20-Feb-2024</th><th>Wednesday
21-Feb-2024</th><th>Thursday
22-Feb-2024</th><th colspan="2">Friday
23-Feb-2024</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, Physiology, Anatomy,Medical Biology
(Practical Exam)</td><td colspan="2" rowspan="3">Assessment Session
Committee III
(MCQ)</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 colspan="2">Program Evaluation Session
Review of the Exam Questions
Evaluation of the Committee III Program
Head of Committee</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Independent Learning</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="4">Independent Learning</td><td rowspan="2"></td><td rowspan="2">ELECTIVE WEEK II</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
Ataturk's Principles &
History of Modern Turkey
Instructor</td><td rowspan="2">Independent Learning</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td><td rowspan="2">Independent Learning</td><td rowspan="2">ELECTIVE WEEK II</td></tr>
<tr><td>17.00-17.50</td></tr>
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MED 104-COMMITTEE IV - TISSUE II

DISTRIBUTION of LECTURE HOURS

Feb 26, 2024 - April 26, 2024

COMMITTEE DURATION: 9 WEEKS

COURSES					
MED 104	**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	7	2Grx2H	0	9
	MEDICAL BIOLOGY	9	5Grx2H	0	11
	IMMUNOLOGY	4	0	0	4
	SCIENTIFIC RESEARCH AND PROJECT	0	0	5GrX3H	3
	PBL			6	6
	TOTAL	**111**	**17**	**9**	**137**
MED 103	**ANATOMICAL DRAWING**	0	14	0	14
MED 102	**INTRODUCTION to CLINICAL PRACTICE-I**	0	5GrX4H	0	4
HTR 302	**ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	18	0	0	18
TKL 202	**TURKISH LANGUAGE & LITERATURE**	14	0	0	14
MED 611-637	**FREE ELECTIVE COURSE**	14	0	0	14
	INDEPENDENT LEARNING HOURS				**98**

Coordination Committee	Head	İnci ÖZDEN, PhD, Prof.
	Secretary	Ahmet SAÇ, MD,Instructor
	Member	Deniz KIRAÇ, PhD, Assoc. Prof.
	Member	Aylin YABA UÇAR, PhD, Prof.

COMMITTEE IV – TISSUE II
LECTURERS

COURSES		
MED 104-BASIC MEDICAL SCIENCES I	**DISCIPLINE**	**LECTURES**
	ANATOMY	Erdem SÖZTUTAR, MD. Assist. Prof. LAB: Edibe BİLİŞLİ KARA, DVM, Lecturer Ahmet SAÇ, MD,Instructor
	BEHAVIORAL SCIENCES	Instructor
	BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof. LAB: Jale ÇOBAN, MD, Prof. Yeşim ÖZARDA, PhD, 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, Prof.
		Alev CUMBUL, PhD, Assoc. Prof.
	MEDICAL BIOLOGY	Ayşe ÖZER, PhD, Prof.
		Soner DOĞAN, PhD, Prof.
		Deniz KIRAÇ, PhD, Prof.
		Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof.
	IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof.
	SCIENTIFIC RESEARCH AND PROJECT I	Aylin Yaba UÇAR, PhD, Prof. (Responsible Faculy Member/Lecturer)
MED 102- INTRODUCTION to CLINICAL PRACTICE I (ICP-I)		Güldak İZBIRAK, MD, 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 for medical biology,
15.1 define basic concepts of inherited diseases
15.2 explain the epigenetics, nutrigenomics and pharmacogenetics
15.3 explain fundamental concepts of stem cell and gene therapy
15.4 define the biological aspects of development

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 Lecturer	13	6	6	25
7.0 – 9.0	BIOCHEMISTRY	Dr. İ. Özden	28	14	14	58
10.0	BIOPHYSICS	Dr. B.G. Tuna	4	3	3	10
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	3	3	13
15.0	MEDICAL BIOLOGY	Dr. S. Doğan Dr. D. Kıraç Dr. S. Güleç Yılmaz	8	4	4	16
16.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	4	2	2	8
17.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	**100**	**49/200#**	**49/200#**	**200**

LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS LPE
1.0 – 2.0 SKILLS. 1.0	ANATOMY	70
7.0 – 9.0 SKILLS. 1.0	BIOCHEMISTRY	10
13.0 – 14.0 SKILLS. 1.0	HISTOLOGY & EMBRYOLOGY	10
15.0 SKILLS. 1.0	MEDICAL BIOLOGY	10
	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+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 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

COMMITTEE IV -TISSUE II - WEEK I /
26 Feb – 1 March 2024

<table>
<tr><th></th><th>Monday
26-Feb-2024</th><th colspan="3">Tuesday
27-Feb-2024</th><th>Wednesday
28-Feb-2024</th><th>Thursday
29-Feb-2024</th><th colspan="2">Friday
1-Mar-2024</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="3">PBL Session</td><td colspan="3">Clinical Skills Learning ICP I
Patient-Doctor Communication Skills Using SPs
Gİzbırak&S Özdemir & D Altıparmak</td><td>Lecture
Glycerophospholipids, Sphingophospholipids
İnci Özden</td><td>Lecture
Epigenetics, Nutrigenetics
Soner Doğan</td><td colspan="2">Lecture
Histology of Adipose Tissue
Alev Cumbul</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Group A</td><td rowspan="3">Scı. Res.
& P.
Small Group
Studies
Group B</td><td rowspan="3">Independent Learning</td><td>Lecture
Glycerophospholipids, Sphingophospholipids
İnci Özden</td><td>Lecture
Epigenetics, Nutrigenetics
Soner Doğan</td><td colspan="2">Lecture
Histology of Cartilage Tissue
Alev Cumbul</td></tr>
<tr><td>11.00- 11.50</td><td>Lecture
Frequency Distributions
E. Çiğdem Keleş</td><td>Lecture
Muscles of the Arm
Erdem Söztutar</td><td colspan="2">Laboratory / Anatomy
Muscles of the Shoulder Girdle and Axilla
Ahmet Saç/Edibe Bilişli
Group A</td></tr>
<tr><td>12.00- 12.50</td><td>Introductory Session
Introduction to Committee IV
Head of Committee IV</td><td>Lecture
Frequency Distributions
E. Çiğdem Keleş</td><td>Lecture
Muscles of the Arm
Erdem Söztutar</td><td colspan="2">Laboratory / Anatomy
Muscles of the Shoulder Girdle and Axilla
Ahmet Saç/Edibe Bilişli
Group B</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
Main Concepts in Biostatistics
E. Çiğdem Keleş</td><td colspan="3">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Muscles of the Shoulder Girdle and Axilla
Erdem Söztutar</td><td>Behavioral Science / Lecture
Life Cycle: Pregnancy through Preschool
Instructors</td><td rowspan="2">ELECTIVE WEEK III</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Main Concepts in Biostatistics
E. Çiğdem Keleş</td><td colspan="3">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Muscles of the Shoulder Girdle and Axilla
Erdem Söztutar</td><td>Behavioral Science / Lecture
Life Cycle; School Age, Adolescence and Adulthood
Instructors</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Atatürk's Principles & History Of Modern Turkey (HTR 302)
Instructor</td><td colspan="3" rowspan="2">Independent Learning</td><td>Lecture
Pharmacogenetics
Seda Güleç Yılmaz</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature (TKL202)
Instructor</td><td rowspan="2">Independent Learning</td><td rowspan="2">ELECTIVE WEEK III</td></tr>
<tr><td>17.00-17.50</td><td>Lecture
Single Gene Inheritence
Seda Güleç Yılmaz</td></tr>
</table>

COMMITTEE IV - TISSUE II - WEEK II /
4 – 8 March 2024

	Monday 4-Mar-2024	Tuesday 5-Mar -2024			Wednesday 6-Mar -2024	Thursday 7-Mar-2024	Friday 8-Mar-2024	
09.00- 09.50	**PBL Session**	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills Using SPs *Gİzbırak&S Özdemir & D Altıparmak*			**Lecture** Classification of Carbohydrates, General Features of Carbohydrates *İnci Özden*	**Laboratory / Anatomy** Muscles of the Arm *Ahmet Saç/Edibe Bilişli* **Group B**	**Lecture** Glycosaminoglycans, Structures and Functions *İnci Özden*	
10.00- 10.50		***Group B***	**Scı. Res. & P. Small Group Studies Grou p C**	**Indepen dent Learnin g**	**Lecture** Monosaccharide Derivatives, Disaccharides, Polysaccharides, Starch, Glycogen *İnci Özden*	**Laboratory / Anatomy** Muscles of the Arm *Ahmet Saç/Edibe Bilişli* **Group A**	**Lecture** Monosaccharide Derivatives, Disaccharides, Polysaccharides, Starch, Glycogen *İnci Özden*	
11.00- 11.50					**Lecture** Graphics *E. Çiğdem Keleş*	**Lecture** Muscles of the Hand *Erdem Söztutar*	**Laboratory / Anatomy** Muscles of the Forearm *Ahmet Saç/Edibe Bilişli* **Group A**	
12.00- 12.50	**Independent Learning**				**Lecture** Central Tendency measurements *E. Çiğdem Keleş*	**Lecture** Muscles of the Hand *Erdem Söztutar*	**Laboratory / Anatomy** Muscles of the Forearm *Ahmet Saç/Edibe Bilişli* **Group B**	
13.00- 13.50	**Lunch Break**	**Lunch Break**			**Lunch Break**	**Lunch Break**	**Lunch Break**	
14.00- 14.50	**Lecture** Histology of Bone Tissue; Microscopic Structure *Alev Cumbul*	**Common Compulsory Course** Anatomical Drawing Refik Aziz			**Lecture** Muscles of the Forearm *Erdem Söztutar*	**Behavioral Science / Lecture** The Biological Bases of Behavior *Instructors*	**ELECTIVE WEEK IV**	**Independent Learning**
15.00- 15.50	**Lecture** Histology of Bone Tissue; Ossification *Alev Cumbul*	**Common Compulsory Course** Anatomical Drawing Refik Aziz			**Lecture** Muscles of the Forearm *Erdem Söztutar*	**Behavioral Science / Lecture** The Biological Bases of Behavior *Instructors*		
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 301, 302) *Instructor*	**Independent Learning**			**Lecture** Digital recording of biomedical signals *Bilge Güvenç Tuna*	**Common Compulsory Course** Turkish Language & Literature (TKL 201, 202) *Instructor*	**Independent Learning**	**ELECTIVE WEEK IV**
17.00-17.50					**Lecture** Digital recording of biomedical signals *Bilge Güvenç Tuna*			

COMMITTEE IV - TISSUE II - WEEK III /
11-15 March 2024

	Monday 11-Mar-2024	Tuesday 12-Mar-2024	Wednesday 13-Mar-2024	Thursday 14-Mar-2024	Friday 15-Mar-2024	
09.00- 09.50	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills Using SPs *Gİzbırak&S Özdemir & D Altıparmak*	**Lecture** Brachial Plexuss *Erdem Söztutar*	**Lecture** Classification of Lipids, General Features of Lipids *İnci Özden*		**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** Brachial Plexus *Erdem Söztutar*	**Lecture** Classification of Lipids, General Features of Lipids *İnci Özden*		**Lecture** Saturated and Unsaturated Fatty Acids, Essential Fatty Acids *İnci Özden*	
11.00- 11.50		**Laboratory / Anatomy** Muscles of the Hand *Ahmet Saç/Edibe Bilişli* **Group B**	**Lecture** Central Tendency measurements *E. Çiğdem Keleş*		**Lecture** Cervical Muscles and Triangles Erdem Söztutar	
12.00- 12.50		**Laboratory / Anatomy** Muscles of the Hand *Ahmet Saç/Edibe Bilişli* **Group A**	**Lecture** Central Tendency measurements *E. Çiğdem Keleş*		**Lecture** Cervical Muscles and Triangles Erdem Söztutar	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**		**Lunch Break**	
14.00- 14.50	**Behavioral Science / Lecture** Life Cycle; Aging, Death and Bereavement *Instructors*	**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Lecture** Nerves of the Upper Limb *Erdem Söztutar*		**ELECTIVE WEEK V**	**Independent Learning**
15.00- 15.50	**Behavioral Science / Lecture** Life Cycle; Aging, Death and Bereavement *Instructors*		**Lecture** Vasculature of the Upper Limb *Erdem Söztutar*			
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Independent Learning**	**Lecture** Mechanical Properties of Biomaterials *Bilge Güvenç Tuna*		**Independent Learning**	**ELECTIVE WEEK V**
17.00-17.50			**Independent Learning**			

COMMITTEE IV - TISSUE II - WEEK IV / 18–22 Mar 2024

	Monday 18-Mar-2024	Tuesday 19-Mar-2024	Wednesday 20-Mar-2024	Thursday 21-Mar-2024	Friday 22-Mar-2024
09.00-09.50	**Lecture** Eicosanoids *İnci Özden*	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills Using SPs *Gİzbırak&S Özdemir & D Altıparmak*	**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 Scı. R. And P.I Small Group Studies** / **Group A,D and E Indepe ndent Learnin g**	**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 *Ahmet Saç/Edibe Bilişli* **Group B**		**Lecture** Central Dispersion measurements *E.Çiğdem Keleş*	**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 *Ahmet Saç/Edibe Bilişli* **Group A**		**Lecture** Central Dispersion measurements *E.Çiğdem Keleş*	**Lecture** Stress-Strain, Stiffness *Bilge Güvenç Tuna*	**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	**Lecture** Muscles of the Head and Scalp ***Erdem Söztutar***	**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Lecture** Cervical Plexus ***Erdem Söztutar***	**Behavioral Science / Lecture** Sleep and Sleep Disorders ***Instructors***	**ELECTIVE WEEK VI** / **Independent Learning**
15.00-15.50	**Lecture** Muscles of the Head and Scalp ***Erdem Söztutar***	**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Lecture** Nerves and Vasculature of the Neck ***Erdem Söztutar***	**Behavioral Science / Lecture** Substance Releated Disorders ***Instructors***	
16.00-16.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Independent Learning**	**Laboratory / Anatomy** Cervical Muscles and Triangles *Ahmet Saç/Edibe Bilişli* **Group A**	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Independent Learning** / **ELECTIVE WEEK VI**
17.00-17.50			**Laboratory / Anatomy** Cervical Muscles and Triangles *Ahmet Saç/Edibe Bilişli* **Group B**		

COMMITTEE IV - TISSUE II - WEEK V / 25 March-29 March 2024

	Monday 25-Mar-2024	Tuesday 26-Mar -2024			Wednesday 27-Mar-2024		Thursday 28-Mar-2024	Friday 29-Mar -2024	
09.00- 09.50	**Laboratory / Anatomy** Muscles of Head and Scalp *Ahmet Saç/Edibe Bilişli* **Group B**	**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills Using SPs *Gİzbırak&S Özdemir & D Altıparmak*			**Laboratory / Histology&Embryology** Histology of Cartilage Tissue and Bone Tissue *Alev Cumbul & Aylin Yaba Uçar* **Group B**	**Independent Learning**	***Lecture*** Triacylglycerols *İnci Özden*	**Laboratory / Anatomy** Nerves and Vasculature of the Head *Ahmet Saç/Edibe Bilişli* **Group B**	
10.00- 10.50	**Laboratory / Anatomy** Muscles of Head and Scalp *Ahmet Saç/Edibe Bilişli* **Group A**	**Group E**	**Group C Sci. R. And P.I Small Group Studies**	**Group C,D and E Independent Learning**		**Laboratory / Anatomy** Cervical Plexus, Nerves and Vasculature of the Neck *Ahmet Saç/Edibe Bilişli* **Group A**	***Lecture*** Triacylglycerols *İnci Özden*	**Laboratory / Anatomy** Nerves and Vasculature of the Head *Ahmet Saç/Edibe Bilişli* **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** Cervical Plexus, Nerves and Vasculature of the Neck *Ahmet Saç/Edibe Bilişli* **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 and Inguinal Canal *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	**Lecture** Innate Immunity *Gülderen Yanıkkaya Demirel*	**Common Compulsory Course** Anatomical Drawing Refik Aziz			**Lecture** International Enzyme Commission Classification of Enzymes *İnci Özden*		**Behavioral Science / Lecture** Psychoanalythic Theory and Defense Mechanism *Instructors*	**ELECTIVE Midterm Exam**	**Independent Learning**
15.00- 15.50	**Lecture** Innate Immunity *Gülderen Yanıkkaya Demirel*	**Common Compulsory Course** Anatomical Drawing Refik Aziz			**Lecture** ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation *İnci Özden*		**Behavioral Science / Lecture** Psychoanalythic Theory and Defense Mechanism *Instructors*		
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Independent Learning**			**Lecture** Muscles of the Thoracic Wall *Erdem Söztutar*		**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Independent Learning**	**ELECTIVE Midterm Exam**
17.00-17.50					**Independent Learning**				

COMMITTEE IV - TISSUE II
WEEK VI / 1-5 April 2024

	Monday 1-Apr -2024	Tuesday 2-Apr -2024	Wednesday 3-Apr -2024	Thursday 4-Apr -2024	Friday 5-Apr -2024	
09.00- 09.50	**Independent Learning**	**Lecture** Primary, Secondary, Tertiary, Quaternary Structures of Proteins *İnci Özden*	**Lecture** Stem Cells ***Soner Doğan***	**Laboratory / Biochemistry** Spectrophotometry *J Çoban & Y Özarda & M Kopuz* **Group A**	**Laboratory / Anatomy** Muscles of Thoraco-Abdominal Wall *Ahmet Saç/Edibe Bilişli* **Group A**	
10.00- 10.50	**Lecture** Glycoproteins, Collagen, α keratin *İnci Özden*	**Lecture** Primary, Secondary, Tertiary, Quaternary Structures of Proteins *İnci Özden*	**Lecture** Gene Therapy ***Soner Doğan***	**Laboratory / Biochemistry** Spectrophotometry *J Çoban & Y Özarda & M Kopuz* **Group B**	**Laboratory / Anatomy** Muscles of Thoraco-Abdominal Wall *Ahmet Saç/Edibe Bilişli* **Group B**	
11.00- 11.50	**Lecture** *Nucleotides* *İnci Özden*	**Lecture** *Nerves and Vasculature of Thoracic and Abdominal Wall* *Erdem Söztutar*	**Lecture** Rates and Ratios *E. Çiğdem Keleş*	**Laboratory / Biochemistry** Spectrophotometry *J Çoban & Y Özarda & M Kopuz* **Group C**	**Lecture** Biological Aspects of Development *Deniz Kıraç*	
12.00- 12.50	**Lecture** Multifactorial Genetic Disorders ***Seda Güleç Yılmaz***	**Lecture** *Nerves and Vasculature of Thoracic and Abdominal Wall* *Erdem Söztutar*	**Lecture** Standardization of Disease Rates *E. Çiğdem Keleş*	**Laboratory / Biochemistry** Spectrophotometry *J Çoban & Y Özarda & M Kopuz* **Group D**	**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	**Laboratory / Med. Biology** Population Genetics A. Özer, S. Doğan, D. Kıraç, S. Güleç Yılmaz **Group A**	**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Lecture** Enzymes, Kinetics,Regulatory Enzymes *İnci Özden*	**Behavioral Science / Lecture** Sleep and Sleep Disorders *Instructors*	**ELECTIVE WEEK VIII**	**Independent Learning**
15.00- 15.50		**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Lecture** Enzymes, Kinetics, Regulatory Enzymes *İnci Özden*	**Behavioral Science / Lecture** Substance Releated Disorders ***Instructors***		
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Independent Learning**	**Laboratory / Biochemistry** Spectrophotometry **All Groups** *J Çoban & Y Özarda & M Kopuz*	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Independent Learning**	**ELECTIVE WEEK VIII**
17.00-17.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*		**Independent Learning**	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*		

COMMITTEE IV - TISSUE II
WEEK VII / 8 - 12 Apr 2024

	Monday 8-Apr -2024	Tuesday 9-Apr -2024	Wednesday 10-Apr-2024	Thursday 11-Apr-2024	Friday 12-Apr-2024
09.00- 09.50	Independent Learning	Independent Learning	RELIGIOUS HOLIDAY	RELIGIOUS HOLIDAY	RELIGIOUS HOLIDAY
10.00- 10.50					
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break	Lunch Break			
14.00- 14.50	Independent Learning	RELIGIOUS HOLIDAY			
15.00- 15.50					
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) ***Instructor***				
17.00-17.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) ***Instructor***				

COMMITTEE IV - TISSUE II
VIII. WEEK 15-19 Apr 2024

	Monday 15-Apr-2024	Tuesday 16-Apr-2024	Wednesday 17-Apr-2024	Thursday 18-Apr-2024	Friday 19-Apr-2024	
09.00- 09.50	**Laboratory / Med. Biology** Population Genetics A. Özer, S. Doğan, D. Kıraç, S. Güleç Yılmaz **Group B**	**Laboratory / Med. Biology** Population Genetics A. Özer, S. Doğan, D. Kıraç, S. Güleç Yılmaz **Group E**	**Lecture** Glycoproteins, Collagen, α keratin *İnci Özden*	***Lecture*** *Adaptive Immunity* *Gülderen Yanıkkaya Demirel*	**Laboratory / Anatomy** Nerves and Vasculature of Thoraco-Abdominal Wall *Ahmet Saç/Edibe Bilişli* **Group B**	
10.00- 10.50			**Lecture** Oxidative Decarboxylation İnci Özden	***Lecture*** *Adaptive Immunity* *Gülderen Yanıkkaya Demirel*	**Laboratory / Anatomy** Nerves and Vasculature of Thoraco-Abdominal Wall *Ahmet Saç/Edibe Bilişli* **Group A**	
11.00- 11.50	**Laboratory / Med. Biology** Population Genetics A. Özer, S. Doğan, D. Kıraç, S. Güleç Yılmaz **Group C**	**Lecture** ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation İnci Özden	**Independent Learning**	**Behavioral Science / Lecture** Emotion ***Instructors***	**Discussion (Large Group)** Overview ***Erdem Söztutar***	
12.00- 12.50		**Lecture** International Enzyme Commission Classification of Enzymes İnci Özden		**Behavioral Science / Lecture** Perception ***Instructors***	**Discussion (Large Group)** Overview ***Erdem Söztutar***	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	
14.00- 14.50	**Laboratory / Med. Biology** Population Genetics A. Özer, S. Doğan, D. Kıraç, S. Güleç Yılmaz **Group D**	**Common Compulsory Course** Anatomical Drawing Refik Aziz	**Laboratory / Histology&Embryology** Histology of Nerve Tissue *Alev Cumbul & Aylin Yaba Uçar* **Group A**	**Behavioral Science / Lecture** Emotion ***Instructors***	**ELECTIVE WEEK IX**	**Independent Learning**
15.00- 15.50				**Behavioral Science / Lecture** Perception ***Instructors***		
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) ***Instructor***	**Independent Learning**	**Laboratory / Histology&Embryology** Histology of Nerve Tissue *Alev Cumbul & Aylin Yaba Uçar* **Group B**	**Common Compulsory Course** Turkish Language & Literature (TKL202) ***Instructor***	**Independent Learning**	**ELECTIVE WEEK IX**
17.00-17.50						

COMMITTEE IV - TISSUE II
IX. WEEK 22-26 Apr 2024

	Monday 22-Apr-2024	Tuesday 23-Apr-2024	Wednesday 24-Apr-2024	Thursday 25-Apr-2024	Friday 26-Apr-2024	
09.00- 09.50	Independent Learning		Independent Learning	Independent Learning	Independent Learning	
10.00- 10.50			Assessment Session Histology&Embryology Medical Biology Anatomy Biochemistry **(Practical Exam)**		Assessment Session Committee IV (MCQ)	
11.00- 11.50			Independent Learning			
12.00- 12.50					Program Evaluation Session Review of the Exam Questions Evaluation of the Committee IV Program *Head of Committee*	
13.00- 13.50	Lunch Break		Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Independent Learning		Independent Learning	Independent Learning	ELECTIVE WEEK X	Independent Learning
15.00- 15.50						
16.00- 16.50	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) ***Instructor***			Common Compulsory Course Turkish Language & Literature (TKL202) ***Instructor***	Independent Learning	ELECTIVE WEEK X
17.00-17.50						

MED 104 - COMMITTEE V - ENERGY and METABOLISM

DISTRIBUTION of LECTURE HOURS

May 2, 2024 – June 9, 2024

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	11
	HISTOLOGY and EMBRYOLOGY	9	2Grx2H	0	11
	MEDICAL BIOLOGY	2	5Grx2H	0	4
	IMMUNOLOGY	4	0	0	4
	SCIENTIFIC RESEARCH AND PROJECT	0	0	5GrX3H	3
	PBL	0	0	6	6
	TOTAL	**73**	**12**	**9**	**94**
MED 102	**INTRODUCTION to CLINICAL PRACTICE- I**	1	5GrX4H		4
MED 103	**ANATOMICAL DRAWING**	0	6		6
HTR 302	**ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	14	0		14
TKL 202	**TURKISH LANGUAGE & LITERATURE**	14	0		14
MED 611-637	**FREE ELECTIVE COURSE**	16	0		16
	INDEPENDENT LEARNING HOURS				**82**

Coordination Committee	Head	Alev CUMBUL, PhD, Assoc. 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 LAB: Edibe BİLİŞLİ KARA, DVM, Lecturer Ahmet SAÇ, MD, Instructor
	BEHAVIORAL SCIENCES	Instructor
	BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof. LAB: Jale ÇOBAN, MD, Prof. Yeşim ÖZARDA, PhD, 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, Assoc. Prof.
	IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof.
	MEDICAL BIOLOGY	Ayşe Özer, PhD, Prof.
		Soner DOĞAN, PhD, Prof.
		Deniz KIRAÇ, PhD, Prof.
		Seda Güleç YILMAZ, PhD, Assoc. Prof.
	SCIENTIFIC RESEARCH AND PROJECT I	Aylin Yaba UÇAR, PhD, Prof. (Responsible Faculy Member/Lecturer)
MED 102-INTRODUCTION to CLINICAL PRACTICE I (ICP-I)		Ayfer İskender, MD, Instructor
		Rabia Sarıyıldız, MD, Instructor
		Yunus Emre Vural, MD, Instructor
		Gökhan GENÇER, MD. Assist. Prof.
		Hande Candemir, 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
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	19	7	7	34
3.0, 4.0	BEHAVIORAL SCIENCE	Behavioral Science	14	5	5	24
5.0 - 8.0	BIOCHEMISTRY	Dr. İ. Özden	30	10	10	50
9.0-11.0	BIOSTATISTICS	Dr. Ç. Keleş	16	5	5	26
12.0 - 16.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	12	4	4	20
17.0	MEDICAL BIOLOGY	Dr. Soner Doğan	3	1	1	5
18.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	5	2	2	10
19.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	**100**	**34/200#**	**34/200#**	**168**

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
17.0 SKILLS. 1.0	MEDICAL BIOLOGY	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+EQ) + 10% (LPE)] + 5% of PBL-P

#In FE and ICE, **34** 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

COMMITTEE V -ENERGY and METABOLISM
I. WEEK 29 Apr–03 May 2024

<table>
<tr><th></th><th>Monday
29-Apr-2024</th><th colspan="3">Tuesday
30-Apr-2024</th><th>Wednesday
01-May-2024</th><th>Thursday
02-May-2024</th><th colspan="2">Friday
03-May-2024</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="3">PBL Session</td><td colspan="3">Lecture ICP
Vital Signs
Ayfer İskender</td><td rowspan="8">NATIONAL HOLIDAY</td><td>Lecture
Gluconeogenesis
İnci Özden</td><td colspan="2">Lecture
Third to Eight Weeks: Embryonic Period (Neurulation; Neuroectoderm Organization; Angiogenesis)
Alev Cumbul</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Vital signs Group A
Ayfer İskender</td><td rowspan="3">Group B Scı. Res. & P. I Small Group Studies</td><td rowspan="3">Independent Learning</td><td>Lecture
Gluconeogenesis
İnci Özden</td><td colspan="2">Lecture
Third to Eight Weeks: Embryonic Period (Neurulation; Neuroectoderm Organization; Angiogenesis)
Alev Cumbul</td></tr>
<tr><td>11.00- 11.50</td><td>Lecture
Muscles of the Pelvic Girdle (Gluteal Region)
Erdem Söztutar</td><td colspan="2">Lecture
Probability
E. Çiğdem Keleş</td></tr>
<tr><td>12.00- 12.50</td><td>Introductory Session
Introduction to Committee V
Secretary of Committee V</td><td>Lecture
Muscles of the Pelvic Girdle (Gluteal Region)
Erdem Söztutar</td><td colspan="2">Lecture
Probability
E. Çiğdem Keleş</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td colspan="3">Lunch Break</td><td>Lunch Break</td><td colspan="2">Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td>Lecture
Digestion and Absorption of Carbohydrates
İnci Özden</td><td colspan="3" rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Behavioral Science / Lecture
Culture and Illness
Instructors</td><td rowspan="2">ELECTIVE WEEK XI</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Digestion and Absorption of Carbohydrates
İnci Özden</td><td>Behavioral Science / Lecture
Culture and Illness
Instructors</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Atatürk's Principles & History Of Modern Turkey (HTR 302)
Instructor</td><td colspan="3" rowspan="2">Independent Learning</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature (TKL202)
Instructor</td><td rowspan="2">Independent Learning</td><td rowspan="2">ELECTIVE WEEK XI</td></tr>
<tr><td>17.00-17.50</td></tr>
</table>

COMMITTEE V -ENERGY and METABOLISM
II. WEEK 06 –10 May 2024

	Monday 06- May-2024	Tuesday 07- May -2024			Wednesday 08- May -2024	Thursday 09- May -2024	Friday 10- May -2024	
09.00- 09.50	**PBL Session**	**Lecture ICP** **Vital Signs** *Rabia Sarıyıldız*			**Lecture** Signal Transduction in Immunity *Gülderen Yanıkkaya Demirel*	**Lecture** Muscles of the Leg *Erdem Söztutar*	**Lecture** Glucogenolysis *İnci Özden*	
10.00- 10.50		**Clinical Skills Learning** **ICP I** Vital Signs *Rabia Sarıyıldız* **Group B**	**Group A** **Scı. Res.** **& P. I** **Small Group** **Studies**	**Group C,D,E** **IL**	**Lecture** Cytokines and Immune Markers *Gülderen Yanıkkaya Demirel*	**Lecture** Muscles of the Leg *Erdem Söztutar*	**Lecture** Glucogenolysis *İnci Özden*	
11.00- 11.50					**Lecture** Muscles of the Thigh *Erdem Söztutar*	**Lecture** Theoretical Distributions *E. Çiğdem Keleş*	**Laboratory/ Anatomy** Muscles of the Leg *Ahmet Saç/Edibe Bilişli* *Group B*	
12.00- 12.50	**Independent Learning**				**Lecture** Muscles of the Thigh *Erdem Söztutar*	**Lecture** Theoretical Distributions *E. Çiğdem Keleş*	**Laboratory/ Anatomy** Muscles of the Leg *Ahmet Saç/Edibe Bilişli* *Group A*	
13.00- 13.50	**Lunch Break**	**Lunch Break**			**Lunch Break**	**Lunch Break**	**Lunch Break**	
14.00- 14.50	**Laboratory/Anatomy** Muscles of the Pelvic Girdle (Gluteal Region) *Ahmet Saç/Edibe Bilişli* *Group A*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*			**Lecture** Foldings and Body cavities *Alev Cumbul*	**Behavioral Science / Lecture** Human Sexuality *Instructors*	**ELECTIVE WEEK XII**	**Independent Learning**
15.00- 15.50	**Laboratory/Anatomy** Muscles of the Pelvic Girdle (Gluteal Region) *Ahmet Saç/Edibe Bilişli* *Group B*				**Lecture** 3rd month to birth: Organogenesis and Fetal Period *Aylin Yaba Uçar*	**Behavioral Science / Lecture** Violence and Abuse *Instructors*		
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Independent learning**			**Independent learning**	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Independent learning**	**ELECTIVE WEEK XII**
17.00-17.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*					**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*		

COMMITTEE V -ENERGY and METABOLISM
III. WEEK / 13 – 17 May 2023

	Monday 13-May- 2024	Tuesday 14-May--2024	Wednesday 15-May--2024	Thursday 16-May-2024	Friday 17-May-2024
09.00- 09.50	**Lecture** Glycogenesis *İnci Özden*	**Lecture ICP** **Vital Signs** *Yunus Emre Vural*	**Lecture** Extraembryonic Structures: Placenta, Chorion, Amnion *Aylin Yaba Uçar*	**Laboratory / Histology&Embryology** Developing Human **II** *Alev Cumbul & Aylin Yaba Uçar* ***Group B***	**Lecture** Glucolysis *İnci Özden*
10.00- 10.50	**Lecture** Glycogenesis *İnci Özden*	**Clinical Skills Learning ICP I** Vital Signs *Yunus Emre Vural* **Group C** **Group D Sci. R. An P.I Small Group Studies** **Group A,B,E Independent Learning**	**Lecture** Twins and Parturition *Aylin Yaba Uçar*		**Lecture** Glucolysis *İnci Özden*
11.00- 11.50	**Lecture** Theoretical Distributions *E. Çiğdem Keleş*		**Lecture** Diagnostic Testing *E. Çiğdem Keleş*	**Laboratory / Histology&Embryology** Developing Human **II** *Alev Cumbul & Aylin Yaba Uçar* ***Group A***	**Laboratory/Anatomy** Muscles of the Thigh *Ahmet Saç/Edibe Bilişli* *Group A*
12.00- 12.50	**Lecture** Theoretical Distributions *E. Çiğdem Keleş*		**Lecture** The Description of Epidemiology *E. Çiğdem Keleş*		**Laboratory/Anatomy** Muscles of the Thigh *Ahmet Saç/Edibe Bilişli* *Group B*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Mitochondrial Genome *Soner Doğan*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Muscles of the Foot *Erdem Söztutar*	**Behavioral Science / Lecture** The Physician-Patient Relationship *Instructors*	**ELECTIVE WEEK XIII** **Independent Learning**
15.00- 15.50	**Lecture** Mitochondrial Genome *Soner Doğan*		**Lecture** Muscles of the Foot *Erdem Söztutar*	**Behavioral Science / Lecture** The Physician-Patient Relationship *Instructors*	
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*	**Independent Learning**	**Lecture** Antigen-Antibody Reactions *Gülderen Yanıkkaya Demirel*	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Independent Learning** **ELECTIVE WEEK XIII**
17.00-17.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*		**Lecture** Antigen-Antibody Reactions *Gülderen Yanıkkaya Demirel*	**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	

COMMITTEE V -ENERGY and METABOLISM
IV. WEEK 20 –24 May 2024

	Monday 20- May-2024	Tuesday 21-May-2024	Wednesday 22-May-2024	Thursday 23-May-2024	Friday 24-May-2024
09.00- 09.50	**Lecture** Infertility and Contraception *Aylin Yaba Uçar*	**Lecture ICP** **Vital Signs** *E. Gökhan Gencer*	**Lecture** Pentose phosphate pathway *İnci Özden*	**Laboratory/ Anatomy** Muscles of the Foot *Ahmet Saç/Edibe Bilişli* *Group A*	**Lecture** Regulation of Glycogenesis and Glycogenolysis *İnci Özden*
10.00- 10.50	**Lecture** Assisted Reproductive Technology *Aylin Yaba Uçar*	**Clinical Skills Learning ICP I** Vital Signs *E. Gökhan Gencer* **Group D** **Group C Sci. R. And P.I Small Group Studies** **Group A,B,E**	**Lecture** Pentose phosphate pathway *İnci Özden*	**Laboratory/ Anatomy** Muscles of the Foot *Ahmet Saç/Edibe Bilişli* *Group B*	**Lecture** Regulation of Glycogenesis and Glycogenolysis *İnci Özden*
11.00- 11.50	**Lecture** Lumbosacral Plexus *Erdem Söztutar*		**Lecture** Epidemiological Research Methods and Calculation of the Risk *E. Çiğdem Keleş*	**Lecture** Vasculature of the Lower Limb *Erdem Söztutar*	**Laboratory/ Anatomy** Lumbosacral plexus, Nerves and vessels of the lower limbs *Ahmet Saç/Edibe Bilişli* *Group A*
12.00- 12.50	**Lecture** Lumbosacral Plexus *Erdem Söztutar*		**Lecture** Sampling in Epidemiology *E. Çiğdem Keleş*	**Lecture** Nerves of the Lower Limb *Erdem Söztutar*	**Laboratory/ Anatomy** Lumbosacral plexus, Nerves and vessels of the lower limbs *Ahmet Saç/Edibe Bilişli* *Group B*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Glucolysis *İnci Özden*	**Independent Learning**	**Lecture** Congenital Anomalies and Teratology *Alev Cumbul*	**Behavioral Science/Lecture** Legal and Ethical Issues in Medicine *Instructors*	**ELECTIVE WEEK XIV** **Independent Learning**
15.00- 15.50	**Lecture** Glucolysis *İnci Özden*		**Independent Learning**	**Behavioral Science/Lecture** Legal and Ethical Issues in Medicine *Instructors*	
16.00- 16.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*			**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	**Independent Learning** **ELECTIVE WEEK XIV**
17.00-17.50	**Common Compulsory Course** Atatürk's Principles & History Of Modern Turkey (HTR 302) *Instructor*			**Common Compulsory Course** Turkish Language & Literature (TKL202) *Instructor*	

COMMITTEE V -ENERGY and METABOLISM
V. WEEK 27 May- 31 May 2024

	Monday 27-May-2024	Tuesday 28-May-2024	Wednesday 29- May-2024	Thursday 30-May-2024	Friday 31-May-2024
09.00- 09.50	**Lecture** Transport Through Biological Membranes *İnci Özden*	**Clinical Skills Learning** **ICP I** Vital Signs *Hande Candemir*	**Lecture** Transport Through Biological Membranes *İnci Özden*	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel **Group D** *E. Çiğdem Keleş*	Discussion (Large Group) Overview *Erdem Söztutar*
10.00- 10.50	**Lecture** Transport Through Biological Membranes *İnci Özden*	**Group E** / **Group D Sci. R. And P.I Small Group Studies** / **Group B,C and A**	**Lecture** Transport Through Biological Membranes *İnci Özden*	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel **Group C** *E. Çiğdem Keleş*	Discussion (Large Group) Overview *Erdem Söztutar*
11.00- 11.50	**Lecture** Diagnostic Testing *E. Çiğdem Keleş*		**Laboratory / Biochemistry** Glucose Determination in Blood, Occult Blood in Feces **All Groups** *J Çoban & Y Özarda & M Kopuz*	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel **Group B** *E. Çiğdem Keleş*	**Lecture** Transport Through Biological Membranes *İnci Özden*
12.00- 12.50	**Lecture** The Description of Epidemiology *E.Çiğdem Keleş*		**Laboratory / Biochemistry** Glucose Determination in Blood, Occult Blood in Feces *J Çoban & Y Özarda & M Kopuz* **Group A**	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel **Group A** *E. Çiğdem Keleş*	**Lecture** Transport Through Biological Membranes *İnci Özden*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Independent Learning**	**Lecture** Epidemiological Research Methods and Calculation of the Risk *E. Çiğdem Keleş*	Glucose Determination in Blood, Occult Blood in Feces, *J Çoban & Y Özarda & M Kopuz* **Group B**	**Behavioral Science / Lecture** Introduction to Psychopathology *Instructors*	**Independent Learning**
15.00- 15.50			Glucose Determination in Blood, Occult Blood in Feces *J Çoban & Y Özarda & M Kopuz* **Group C**	**Behavioral Science / Lecture** Introduction to Psychopathology *Instructors*	
16.00- 16.50			Glucose Determination in Blood, Occult Blood in Feces *J Çoban & Y Özarda & M Kopuz* **Group D**	**Independent Learning**	
17.00- 17.50			**Independent Learning**		

COMMITTEE V -ENERGY and METABOLISM
VI. WEEK / 03 – 07 June 2024

<table>
<tr><th></th><th>Monday
03- June-2024</th><th>Tuesday
04- June-2024</th><th>Wednesday
05- June-2024</th><th>Thursday
06- June-2024</th><th>Friday
07- June- 2024</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="3">Assessment Session
Committee V</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td></tr>
<tr><td>17.00-17.50</td><td>Program Evaluation Session
Review of the Exam Questions
Evaluation of the Committee V Program
Head of Committee</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

*** Student counseling is conducted through the Yeditepe University Faculty of Medicine Education Management System (EYS). The names of the assigned advisors can be accessed via the EMS platform."**

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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