# YEDITEPE UNIVERSITY FACULTY OF MEDICINE PHASE II ACADEMIC PROGRAM BOOK 2025 – 2026

Student's; Name : ..... Number : .....

# YEDİTEPE UNIVERSITY FACULTY OF MEDICINE PHASE II

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#### **COORDINATION COMMITTEE**

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#### **ACADEMIC CALENDAR 2025 - 2026**

#### **MED 203 BASIC MEDICAL SCIENCES II**

#### COMMITTEE I CARDIOVASCULAR SYSTEM (6 Weeks)

Beginning of Committee: September 08, 2025, Monday

End of Committee: October 17, 2025 Friday

Committee Exam: October 16, 2025 Thursday (Theoretical and Practical

Exams)

Committee Exam Discussion: October 17, 2025 Friday

**COMMITTEE II RESPIRATORY SYSTEM (6 Weeks)** 

Beginning of Committee: October 20, 2025, Monday

End of Committee: November 28, 2025, Friday

Committee Exam: November 28, 2025, Friday(Theoretical and Practical Exams)

Committee Exam Discussion: November 28, 2025, Friday

Republic Day: October 29, 2025, Wednesday

Commemoration of Atatürk: November 10, 2025, Monday

**COMMITTEE III GASTROINTESTINAL SYSTEM (7 Weeks)** 

Beginning of Committee: December 1, 2025, Monday

End of Committee: January 15, 2026, Thursday

Committee Exam: January 15,2026, Thursday (Theoretical and Practical

Exams)

Committee Exam Discussion: January 16, 2026, Friday

New Year: January 1, 2026, Thursday

**MIDTERM BREAK: JANUARY 19-30, 2026** 

**COMMITTEE IV NERVOUS SYSTEM (8 Weeks)** 

Beginning of Committee: February 2, 2026, Monday

End of Committee: March 27, 2026, Friday

Committee Exam: March 27, 2026, Friday (Theoretical and Practical Exams)

Committee Exam Discussion: March 28, 2025, Friday

Physicians' Day: March 14, 2026, Saturday

#### **COMMITTEE V ENDOCRINE and UROGENITAL SYSTEMS (9 Weeks)**

Beginning of Committee: March 30, 2026, Wednesday

End of Committee: June 05, 2026, Friday

Committee Exam: June 05, 2026, Friday (Theoretical and Practical Exams)

Committee Exam Discussion: June 05, 2026, Friday

National Holiday: April 23, 2026, Thursday

Labor's Day: May 1, 2026, Friday

National Holiday: May 19, 2026, Tuesday

Make-up Exam: June 9, 2026 Tuesday

Final Exam: June 23, 2026, Tuesday

Incomplete Exam: July 8, 2026, Wednesday

#### FREE ELECTIVE COURSES-Spring 2025-2026

Introduction to Elective Courses: January 09, 2026, Friday 16:00-18:00 (Online)

Beginning of Elective Courses: February 06, 2026, Friday

Midterm Exam: April 10, 2026, Friday

End of Elective Courses June 12, 2026, Friday

Make-up Exam: June 17-19, 2026 Wednesday-Friday

Final Exam: June 24-29, 2026 Wednesday-Monday

Incomplete Exam: July 13-17, 2026 Monday-Friday

#### MED 202 INTRODUCTION to CLINICAL PRACTICE II (ICP-II)

Beginning of Course: September 8, 2025, Monday

End of Course: May 22, 2026, Friday

Midterm Exam: February 12-13, 2026, Thursday-Friday

Make-up Exam: May 13, 2026, Wednesday

Final Exam: June 8-9, 2026, Wednesday-Thursday

Incomplete Exam: July 3, 2026, Tuesday

#### **THE COORDINATION COMMITTEE MEETINGS**

1<sup>st</sup> Coordination Committee Meeting: October 21, 2025, Tuesday

2<sup>nd</sup> Coordination Committee Meeting: January 13, 2026, Tuesday (With student participation)

3<sup>rd</sup> Coordination Committee Meeting: May 12, 2026, Tuesday (With student participation)

4<sup>th</sup> Coordination Committee Meeting: July 21, 2026, Tuesday

#### **PROGRESS TEST**

1st Progress Test: 2 January 2026 Friday (ONLINE)

2<sup>nd</sup> Progress Test: 13 May 2026 Wednesday (ONLINE)

<sup>\*</sup>Participation in the Progress Test (PT) is compulsory. Students who do not complete the PT will not be eligible to progress to the next phase

#### 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"

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#### **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

#### **COMPETENCE AREA-1 / Professional Practices**

#### **COMPETENCE 1.1. Health Service Provider**

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

**Competency 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.

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

**Competency 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.

**Competency 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.

**Competency 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.

**Competency 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.

**Competency 1.1.8.** Provides healthcare services considering patient and employee health and safety.

**Competency 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.

#### **COMPETENCE AREA-2 / Professional Values and Approaches**

#### **COMPETENCE 2.1. Adopting Professional Ethics and Principles**

**Competency 2.1.1.** Considers good medical practices while performing the profession.

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

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

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

#### **COMPETENCE 2.2. Health Advocate**

**Competency 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.

**Competency 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.

**Competency 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.

**Competency 2.2.4.** Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it.

#### **COMPETENCE 2.3. Leader-Manager**

**Competency 2.3.1.** Demonstrates exemplary behavior and leadership within the healthcare team during service delivery.

**Competency 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.

#### **COMPETENCE 2.4. Team Member**

**Competency 2.4.1.** Communicates effectively within the healthcare team and takes on different team roles as necessary.

**Competency 2.4.2.** Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team.

**Competency 2.4.3.** Works collaboratively and effectively with colleagues and other professional groups in professional practice.

#### **COMPETENCE 2.5. Communicator**

**Competency 2.5.1.** Communicates effectively with patients, their families, healthcare professionals, and other occupational groups, institutions and organizations.

**Competency 2.5.2.** Communicates effectively with individuals and groups who require a special approach and have different sociocultural characteristics.

**Competency 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.

#### **COMPETENCE AREA-3 / Professional and Personal Development**

#### **COMPETENCE 3.1. Scientific and Analytical Approach**

**Competency 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.

**Competency 3.1.2.** Accesses and critically evaluates current literature related to their profession.

**Competency 3.1.3.** Applies evidence-based medicine principles in the clinical decision-making process.

**Competency 3.1.4.** Uses information technologies to enhance the effectiveness of healthcare, research, and education activities.

#### **COMPETENCE 3.2. Lifelong Learner**

**Competency 3.2.1.** Manages effectively individual study processes and career development.

**Competency 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.

Competency 3.2.3. Selects the right learning resources to

improve the quality of health care and organizes the learning process.

#### 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 human body such that macromolecule, organelle, cell, tissue, organ systems and finally introduction to pathogenesis.

- Phase I: Normal structure and function of 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 human body.

Besides 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 the phase include learning objectives of core courses. The learning objectives of committees include learning objectives of core courses' components for the committee.

#### 2025-2026 CURRICULUM OF PHASE II

#### YEDİTEPE UNIVERSITY FACULTY OF MEDICINE

COI	DE	SECOND YEAR	w	Т	Α	L	Y	E
MED	203	Basic Medical Sciences II	38	597		87		53
MED	202	Introduction to Clinical Practice II	35	5	12	18		5
MED	XXX	Free Elective Course <sup>1</sup> (SS)	14	28				2
Total Credits								60

The curriculum applies to 2024-2025 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.

Free Elective Courses. At least one free elective course offered by the Faculty of Medicine or other faculties must be selected in an academic 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... <sup>2</sup>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

NC: Non-Credit Course, FS: Fall Semester, SS: Spring Semester, W: Weeks.

<sup>\*</sup>Please see <a href="https://med.yeditepe.edu.tr/sites/default/files/curriculum\_2023-24\_tr.docx">https://med.yeditepe.edu.tr/sites/default/files/curriculum\_2023-24\_tr.docx</a> for total curriculum of Faculty of Medicine.

#### **DESCRIPTION and CONTENT of PHASE II**

Normal structure and function at system and multi-system level, introduction to pathology.

Cardiovascular System, Respiratory System, Gastrointestinal System, Nervous System, Endocrine and Urogenital System, Introduction to Clinical Practice- II (ICP- II), Scientific Research and Project, Problem-Based Learning, Elective Courses

Anatomy, Physiology, Biochemistry, Histology & Embryology, Microbiology, Immunology, Biophysics, Medical Biology, Pathology, Pharmacology, Biostatistics, Family Medicine, Medical Education, Elective Courses, Scientific Research and Project Course-II.

#### AIM and LEARNING OBJECTIVES of PHASE II

#### **AIMS**

- **1. to convey** knowledge on biophysical, biological, anatomical, embryological, histological, physiological, biochemical, microbiological and immunological conditions of systems, introductory information on tissue damage and neoplasis related to systems, and basic knowledge at the introductory level for clinics, **to equip with** basic clinical skills (interventional or non-interventional) required for the practice of medical profession, and skills for making scientific research presentation
- **2. to convey** complementary educational experiences by improving biopsychosocial approach medical practice

#### **LEARNING OBJECTIVES**

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

#### **KNOWLEDGE**

- 1.0. explain basic medical knowledge for cardiovascular system, respiratory system, circulation, hemodynamics, urogenital system, gastrointestinal system, nervous system, endocrine system, immune system and immunologic response, biostatistics subjects and elective courses.
- 2.0. explain the operational principles, interactions and relation of the systems in the body.
- 3.0. of clinical conditions;
  - 3.1. explain mechanisms of damages formed at molecular, cell, tissue, organ, system and multisystem levels,
  - 3.2. describe the structural changes caused,
  - 3.3. list developmental progress in time.
- 4.0. Among factors that pose risk-to individual and community health;
  - 4.1. list biological agents,
  - 4.2. explain their mechanisms of action and outcomes.
- 5.0. explain basic principles of evidence-based medicine applications.
- 6.0. know how to discuss scientific articles in the view of literature
- 7.0. comprehend the biopsychosocial approach in medicine.
- 8.0. know how to make presentation of a scientific research.

#### **SKILLS**

- 1.0. apply basic interventional and non-interventional processes for taking individual preventive measures, drug application and diagnosis or treatment.
- 2.0. apply basic laboratory technics and use equipment.
- 3.0. prepare a presentation of a scientific research

## AIM and LEARNING OBJECTIVES of BASIC MEDICAL SCIENCES II (BMS-II) (MED 203)

#### AIM

**To convey** knowledge on biophysical, biological, anatomical, embryological, histological, physiological, biochemical, biostatistics, microbiological and immunological conditions of systems, introductory information on tissue damage and neoplasis related to systems, and basic knowledge at the introductory level for clinics, skills for scientific article presentation

#### **LEARNING OBJECTIVES**

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

#### **KNOWLEDGE**

- 1.0. explain basic medical knowledge for cardiovascular system, respiratory system, circulation, hemodynamics, urogenital system, gastrointestinal system, nervous system, endocrine system, immune system and immunologic response, biostatistics subjects.
- 2.0. explain the operational principles, interactions and relation of the systems in the body.
- 3.0. of clinical conditions:
  - 3.1. explain mechanisms of damages formed at molecular, cell, tissue, organ, system and multisystem level,
  - 3.2. describe the structural changes caused,
  - 3.3. list developmental progress in time.
- 4.0. Among factors that pose risk to individual and community health;
  - 4.1.list biological agents,
  - 4.2. explain their mechanisms of action and outcomes.
- 5.0. explain basic principles of evidence-based medicine applications.
- 6.0. know how to discuss scientific articles in the view of literature
- 7.0. know how to make presentation of a scientific research.
- 8.0. comprehend the biopsychosocial approach in medicine.

#### **SKILLS**

- 1.0. apply basic interventional and non-interventional processes for taking individual preventive measures, drug application and diagnosis or treatment.
- 2.0. apply basic laboratory technics and use equipment.
- 3.0. prepare a presentation of a scientific research

## 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 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 year's 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 II (ICP-II) (MED 202)

#### AIM

1. **To equip with** basic interventional skills (nasogastric tube and urinary catheter application; intramuscular, intradermal and subcutaneous injection, intravenous cannulation, intraarterial Blood Sampling).

#### **LEARNING OBJECTIVES**

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

#### **KNOWLEDGE**

- 1. **count** nasogastric tube types, application indications, contraindications and the steps in application procedure.
- 2. **count** urinary catheter types, application indications, contraindications and the steps in application.
- 3.count application indications, contraindications and the steps in application procedure of intramuscular, intradermal and subcutaneous injections.
- 4. **count** application indications, contraindications and the steps in application procedure of intravenous injections and intravenous cannulation.
- 5. **count** application indications, contraindications and the steps in application procedure of intraarterial blood sampling

#### **SKILLS**

- 1. perform nasogastric tube application on an adult model in accordance with the skill procedure.
- 2. **perform** urinary catheter application in an adult female and male model in accordance with the skill procedure.
- **3. perform** intramuscular, intradermal, subcutaneous and intravenous injection as well as intravenous cannulation applications in an adult model in accordance with the skill procedure.
- **4. perform** intramuscular, intradermal, subcutaneous and intravenous injection in an adult model in accordance with the skill procedure.
- **5. perform** intravenous injection and intravenous cannulation applications in an adult model in accordance with the skill procedure.
- 6. perform intraarterial blood sampling in an adult model in accordance with the skill procedure.
- 7. **describe** the process to be carried out to the patient before any intervention.

#### **ATTITUDE**

- 1. value the importance of informed consent
- 2. pay attention to patient privacy
- 3. value the importance of not exceeding the limits of his/her own competency level.
- 4. pay attention to follow laboratory rules
- 5. pay attention to keep patient records regularly and properly
- 6. apply hand hygiene before and after each procedure
- 7. apply standard precaution before, during and after each procedure

#### **EARLY CLINICAL EXPOSURE**

#### **Description:**

The training program includes Phase II students' learning activities in clinical settings including primary care during the Spring semester.

#### Aim:

The aim of "Early Clinical Exposure" Educational Program is the observation of doctor-patient communication on the job in the clinical settings as well as in primary care by Phase II students, and after interviewing a patient.

#### **Learning Environment:**

- 1. Yeditepe University Hospital (Kozyatağı)
  - a. Outpatient Clinic
  - b. Inpatient Clinic
  - c. Emergency Department
- 2. Yeditepe University Student Health Center (SHC)
- **3.** Family Health Center (FHC)

#### **Duration:**

The education program is spread over a total of 5 weeks.

#### **Objectives of the Training:**

Students who complete the training program will be able to;

#### Knowledge:

- explain the steps of the patient-doctor interview.
- explain the history taking steps from the patients.
- explain the examination of vital signs and systemic examination.
- explain the role of clinical settings in daily functioning and health personnel, including primary care.
- list the administrative units in hospitals (consultant, hospital director, nursing director, quality management, patient safety unit) and function.
- explain the components of medical records.

#### Skills:

- start the interview with the patient.
- ask the patient's socio-demographic characteristics and record.
- question the main complaint and records.
- take a medical history from the patient.
- keep medical records on patients' files.
- inform the patient about the basic steps of patient-physician interview.

#### Attitude:

develop awareness to act respectful and attentive to patients, their relatives and healthcare providers.

#### Content:

- Meeting with the patient, learning problems, giving information about the process
- Observing the history taking and physical examination
- Observing the planning of tests for diagnosis
- Observing the planning stages of treatment
- Observing the process of admission to the hospital
- Observing the Clinical process
- Observing the work area of health care workers in the hospital
- Observing certain units and functions on-site in the hospital

#### **Instructional Methods:**

Living an Experience-Field Trip-Clinical Setting (each student should encounter at least four patients in being presence twice in the clinical setting)

#### **Educational Materials:**

Checklists for the patient-physician interview (to be used during student observation)

#### Assessment

These assessments are made by the Coordinators of Early Clinical Experience.

#### The effect of ECE educational program will be considered as 10% of the ICP score.

#### **Organization of Student Groups:**

The student cycle of Phase II will be in synchronization with the ICP program.

Phase II coordinator will send the student list for the scheduled hours of training a week before the training to ECE coordinators.

Students should be in the clinical setting on the day of training during the ICP II Program.

	Group A	Group B	Group C	Group D	Group E
2 APR 2026	FHC	SHC	SRPC	Yeditepe University Hospital, Kozyatağı	ICP
9 APR 2026	ICP	FHC	SRCP	SHC	Yeditepe University Hospital, Kozyatağı
16 APR 2026	SHC	ICP	Yeditepe University Hospital, Kozyatağı	SRPC	FHC
30 APR 2026		Yeditepe University Hospital, Kozyatağı	ICP		SRPC
7 MAY 2026	SRPC	SHC	FHC	ICP	SHC
14 MAY 2026	Yeditepe University Hospital, Kozyatağı	SRPC	SHC	FHC	ICP

М	ED 202 ICP	II COURSE 2025-2026 AC	ADEMIC PROGRAM
DAY	HOUR	SUBJECT	LECTURER
11-SEP-2025 THURSDAY	14:00-17:50	CSL: Intramuscular Injection / Intradermal / Subcutaneous Injection Group A	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver

18-SEP-2025 THURSDAY	14:00-17:50	CSL: Intramuscular Injection / Intradermal / Subcutaneous Injection Group B	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver
25-SEP-2025 THURSDAY	14:00-17:50	CSL: Intramuscular Injection / Intradermal / Subcutan Injection Group C	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver
02-OCT-2025 THURSDAY	14:00-17:50	CSL: Intramuscular Injection / Intradermal / Subcutaneous Injection Group D	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver
09-OCT-2025 THURSDAY	14:00-17:50	CSL: Intramuscular Injection / Intradermal / Subcutaneous Injection Group E	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver
23-OCT-2025 THURSDAY	14.00-17.50	Intravenous Cannulation Group A	A. Eceviz / F.A.Gültekin
30-OCT-2025 THURSDAY	14.00-17.50	Intravenous Cannulation Group B	C. Şimşek / D. Tav Şimşek
06-NOV-2025 THURSDAY	14.00-17.50	Intravenous Cannulation Group C	M. Yazıcıoğlu / R. Sarıyıldız
13-NOV-2025 THURSDAY	14.00-17.50	Intravenous Cannulation Group D	E.G. Gencer / F.A. Gültekin

20-NOV-2025 THURSDAY	14.00-17.50	Intravenous Cannulation Group E	H. Candemir Ercan / R. Sarıyıldız
04-DEC-2025 THURSDAY	14.00-17.50	CSL: Nasogastric Tube Administration Group A	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver
11-DEC-2025 THURSDAY	14.00-17.50	CSL: Nasogastric Tube Administration Group B	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver
18-DEC-2025 THURSDAY	14.00-17.50	CSL: Nasogastric Tube Administration Group C	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver
25-DEC-2025 THURSDAY	14.00-17.50	CSL: Nasogastric Tube Administration Group D	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver
08-JAN-2026 THURSDAY	14.00-17.50	CSL: Nasogastric Tube Administration Group E	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver
11-FEB-2026 MONDAY	09.00-11.50	REVIEW LAB	
12-13-FEB-2026 THURSDAY, FRIDAY	09:00-17:50	0:	SCE-II MIDTERM

19-FEB-2026 THURSDAY	14:0-17:50	Intraarterial Blood Sampling Group A	Dr. Ezgi Aytaç
26-FEB-2026 THURSDAY	14:00-17:50	Intraarterial Blood Sampling Group B	Dr. Ezgi Aytaç
5-MAR-2026 THURSDAY	14:00-17:50	Intraarterial Blood Sampling Group C	Dr. Ezgi Aytaç
12-MAR-2026 THURSDAY	14:00-17:50	Intraarterial Blood Sampling Group D	Dr. Ezgi Aytaç
2-APR-2026 THURSDAY	14:00-17:50	Intraarterial Blood Sampling Group E	Dr. Ezgi Aytaç
9-APR-2026 THURSDAY	14:00-17:50	Bladder Catheterization  Group A	C. Şimşek / D. Tav Şimşek
16-APR-2026 THURSDAY	14:00-17:50	Bladder Catheterization Group B	M. Yazıcıoğlu/ F.A. Gültekin
30-APR-2026 THURSDAY	14:00-17:50	Bladder Catheterization Group C	A. Eceviz / R. Sarıyıldız
7-MAY-2026 THURSDAY	14:00-17:50	Bladder Catheterization Group D	E.G. Gencer / F.A. Gültekin

|--|

Midterm Exam: February 12-13, 2026 Wedneyday-Thursday
Make-up Exam: May 13, 2026 Wedneyday
Final Exam: June 08-09, 2026 Monday-Tuesday
Incomplete Exam: July 3, 2026 Friday

## AIM and LEARNING OBJECTIVES of SCIENTIFIC RESEARCH and PROJECT COURSE- II

#### **AIM**

The aim of the Scientific Research and Project Course— II (SRPC) is to equip second-year medical students to convey basic knowledge of scientific research and methodology, to equip them with skills in searching scientific literature from different reliable sources, and then convey students' knowledge and skills to write a scientific review paper and present it as a poster.

#### **LEARNING OBJECTIVES**

#### **KNOWLEDGE**

- 1.0. find reliable scientific research articles and literature from different sources
- 2.0. decide on a topic of interest related to scientific research
- 3.0. explain the structure of a scientific review paper
- 4.0. Explain the different types of review papers
- 5.0. explain the basic structure of the poster presentation
- 6.0. present a review or research paper as a poster

#### **SKILLS**

- 1.0. decide on the topic of scientific research interest
- 2.0. browse reliable sources to find reliable scientific literature
- 3.0. write a review paper
- 4.0. prepare poster

#### The Scientific Research and Project Course (SRPC)

#### Aim, objectives, and explanation of the course

The Scientific Research and Project Course (SRPC) is crafted to offer medical students the chance to dive into research that is based on hypotheses, aiming to boost their analytical thinking abilities, increase their intellectual sharpness, and encourage a deeper sense of curiosity. It is designed to nurture top-notch skills in research, clinical, and teaching scholars. Students will explore various topics across different fields, including the biomedical sciences, clinical sciences, humanities, arts, and more. Additionally, students will learn and implement key professional values, ethical standards, communication strategies, and teamwork skills throughout their research journey.

The purpose of the course is to introduce students to the scientific inquiry process, showing them how to pose questions that can be answered and the methods needed to find the right answers. The SRPC is integrated into the medical school education and curriculum.

The discussion section of a scientific manuscript is essential for interpreting the study's findings and placing them in the context of existing medical knowledge. It teaches medical students to think critically, assess limitations, and understand the broader implications of research. By connecting results to clinical practice, it helps bridge the gap between science and patient care. Additionally, it encourages reflection on what questions remain unanswered, guiding future research.

- Identify a significant scientific or clinical question to explore.
- Review, analyze, and use scientific literature related to the selected question.
- Critical evaluation and discussion of a scientific article in journal discussion.
- Create a project hypothesis based on the latest research and theories in the scientific area.
- Discover suitable methods to tackle the question, following established standards in the relevant disciplines.
- Plan, carry out, and analyze the outcomes of their projects, focusing on the question and hypothesis.
- Determine how the project connects to medicine and healthcare.
- Express ideas clearly through speaking and writing.
- Uphold ethical standards and professionalism throughout the project.

The SRPC is designed to ignite curiosity, enhance understanding, and encourage research activities among students in their undergraduate medical studies. To accomplish these objectives, the SRPC program is structured into three main parts:

- 1. A classroom-based part that includes lectures, small group study & discussions, and collaborative learning activities,
- 2. Guidance from teachers in acquiring the abilities needed to create and articulate a research question, a related hypothesis, and the approach to carry out the research,
- 3. A student project.

#### Instructional methods

Team-based learning (TBL) will be used as an active learning strategy for SRPC to promote critical thinking, knowledge application, teamwork, and collaboration. Each TBL session should include prereading materials for students to review before attending the class. These materials should help students grasp the fundamental ideas of the session. Instructors will outline the goals of the session before or during the readings and create tests to assess these goals. When students arrive for the TBL session, they will take an Individual Readiness Assurance Test (IRAT). This test ensures each student has understood the assigned readings and is usually a true/false/multiple-choice quiz (20% of final grade). Students may also have a Team Readiness Assurance Test (TRAT) at the start of class to address any misunderstandings or issues (20% of final grade). The instructor will look for any misunderstandings and promote discussions but will not provide answers or solutions, instead focusing on explaining complex concepts as necessary. Students will be responsible for their own homework (60% of final grade), as their individual scores will be factored into their final score for SRPC.

#### **ASSESSMENT PROCEDURE**

For the assessments of the medical students for the SRPC, it is calculated out of 100 points; 60% of the total grade will be on enlarged abstract writing (600 words) and drawing a graphical abstract by the end of the first semester **(TBA)** and 60% will be on poster presentation at the end of the second semester **(TBA)**. Poster presentation will be held on June 8, 2026.

	Percentage of final grade
Individual Readiness Assurance Test (IRAT) and journal discussion	10%

Team Readiness Assurance Test (TRAT) and journal discussion	10%
Homework	80%

Any assignments, including enlarged abstract writing, drawing graphical abstract, and poster presentation, should be done by the student herself or himself and should not be "copied and pasted" by others. Similarities of more than 35% in Turnitin or a similar search engine will be considered plagiarism, and students (the ones who give and the ones who receive) will get zero (0) points for the total score for the SRP course.

Students are strongly encouraged to attend the small group meetings and discussions since it will help them to complete the tasks on time. Students could attend only in their small groups. Attending with other small groups will be considered absent.

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 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. There will be no acceptance of assignments after the pre-scheduled dates.

Turning in assignments on time: Any assignments given by the instructor should be turned in on the date and time decided by the instructor. Assignments turned in after the deadline will not be accepted, and students will receive zero points.

Note: The instructor has the right to change the assignments and assessment portions of the assignments.

#### **ASSESSMENT PROCEDURE**

The Assessment Procedure of Phase II covers exams and scores and their abbreviations shown below.

- 1. Exams:
  - Committee Exam (CE)
  - Mid-term Exam (MTE)
  - Final Exam (FE)
  - Incomplete Exam (ICE)
  - Make-up Exam (MUE)
- 2. 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 (SRPCS)
- Final Exam Score (FES)
- Incomplete Exam Score (ICES)
- Term Score (TS)

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

score types,	score types, are shown below table.				
Assessment Approaches	ssessment Methods	Question Types / Assessment Tools	Exams	Derived Scores	
		MCQ: Multiple Choice Questions	CE, MTE, FE, ICE	CS, ICPS, FES, ICES, ECSs, SRPCS	
Knowledge- based Assessment	WE: Written Examination	SbMCQ: Scenario-based MCQs	CE, MTE, FE, ICE	CS, ICPS, FES, ICES	
		FSAQ: Fill-in-the- Blank Short Answer Questions	MUE	cs	
	OSCE: Objective Structured Clinical Examination	OSCE Checklist		ICPS	
Competency-	OSPE: Objective Structured Practical Examination	OSPE Checklist		cs	
based Assessment	LPE: Laboratory Practical Exam	LPE Checklist FSAQ: Fill-in-the- Blank Short Answer Questions* MCQ: Multiple Choice Questions* SEQ: Short Essay Questions*		cs	
	PWPE: Review Writing and Presenting Evaluation	PWPE Checklist		ECSs	
Performance– based Assessment	AID: Anatomical Images Drawing			ADS	
	PBL-P: Evaluation of PBL Student's Performance	PBL Student Evaluation Form		cs	
Exams Information (MED 202, MED 203)					
For the proportional correspondence of individual learning objectives, please see the committee's assessment matrix table/page.					
MTEICP	MTEICP consists of MCQs that 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 <sub>iss</sub>	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 202, MED 203, MED 103, HUM 103, TKL 201, TKL 202, HTR 301, HTR 302, 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. The contribution of students' performance during PBL sessions to CSs of Committee II, III, IV, and V is 5%.
CMS	= Average of CSs
ICPS	= 10% ECE+45% MT OSCE + 45% Final OSCE
ADS	= (70% AIDAD) + (30% FEAD)
CCCSs	= Score information will be announced by the Course Coordinator.
ECSs	= Score information is shown on pages of Elective Courses in the APB.
SRPCS	= Score information is shown on 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 SRPCS
TS for students who are not exempted from FE	= 97% of (60% of CMS + 40% of FES or ICES) + 3% of SRPCS

#### Pass or Fail Calculations of the Courses

#### **Basic Medical Sciences II (MED 203)**

*Pass; TS* ≥ *60* 

Fail; FES < 50 (barrier point), ICES < 50 (barrier point), or/and TS < 60 The student is exempted from FE, if the CMS is  $\geq$  80 and all CSs are  $\geq$  60

The FE and ICE <u>barrier point is not applied</u> to the students whose all CSs are ≥ 60

#### Introduction to Clinical Practice II (MED 202)

Pass; ICPS ≥ 60

*Fail;* ICPS < **60** 

#### **Anatomical Drawing (MED 103)**

Pass; ADS ≥ 60

*Fail; ADS* < **60** 

#### **Common Compulsory Courses**

(HUM 103, TKL 201, TKL 202, HTR 301, HTR 302, AFYA 101, AFYA 102)

Pass; CCCSs ≥ 50

Fail; CCCSs < 50

#### **Elective Courses**

(MED 611, MED 612, MED 613, MED 614, MED 615, MED 616, MED 619, MED 620, 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 II will be announced and explained in the introductory session at the beginning of the academic year.

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

#### <u>Definitions of the Assessment Methods and Question</u> 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. They test knowledge in a far more applied, in-depth sense. SbMCQ is based on a clinical, research, or daily life scenario.

**SEQ** 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 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 the assessment of laboratory exercises in preclinical sciences.

It was adapted from the objective structured clinical examination (OSCE). OSPE has implemented in similarly conditions with OSCE.

**LPE** is included as it has been a traditional assessment format in many schools 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	ВА
70-79	ВВ
65-69	СВ
60-64	СС
59 or less	FF (Fail in the context of "Pass or Fail Calculations of the Courses" table pp.31)
0	FA (Fail due to nonattendance to the courses)

<sup>\*</sup> Please see <a href="https://med.yeditepe.edu.tr/tr/mezuniyet-oncesi-tip-egitimi">https://med.yeditepe.edu.tr/tr/mezuniyet-oncesi-tip-egitimi</a> for more information.

#### **RULES FOR COURSE ATTENDANCE OF THE STUDENTS**

#### **General Rules:**

Students must attend all theoretical and practical sessions such as laboratory work, discussions, seminars, and 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, and ICS course committees

- 1- It is mandatory for Term 1, 2 and 3 students to attend theoretical and practical/laboratory studies in all committees during the academic year they are registered. Students who do not attend more than 20% of the theoretical lectures of the committee and/or more than 20% of the practical/laboratory studies with or without an excuse, will not be admitted to the Committee exams (practical and theoretical).
- 2- If a student whose absences exceed 20% has an excuse, and submits this to the Deanry with a petition within the statutory period, their situation will be evaluated by the Board of Directors of the Faculty of Medicine. If they have a legitimate and valid excuse, they will be allowed to take a make-up exam by the relevant committee at the end of the academic year, provided that their total absences throughout the year do not exceed 20%. These students must make up for their missing practicals/laboratory works until the end of the year on the day and time specified by the faculty member, within the possibilities of the relevant department.
- 3- Students who cannot attend the laboratory/practical studies included in the committee due to an excuse must make up for the laboratory/practical studies they could not attend on the day and time specified by the instructor, within the scope of departmental possibilities, provided that their absences do not exceed 20% and that they have a justified and valid excuse. Students must submit a petition about the excuses to the Deanery within the three days. Students who are absent from the laboratory/practical studies and do not make up for these studies cannot take the practical and theoretical exams of the relevant committee.

**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
  - o 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.
  - o 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.
  - o Arranging to have another person take an exam for the student.
  - Disobeying to the conduct of supervisor during the exam.
  - o Disclosing the contents of an exam to any other person.
  - o Failing to remain in the exam room for a given period of time by the supervisors.
  - o 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 lose any academic and nonacademic 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 (PT) assesses 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.
- PT is conducted to allow students to see their progress in knowledge levels throughout their medical education.

#### Obligation

PT is mandatory for all students.

#### **Frequency and Timing**

- PT is performed twice a year.
- Each student will have received a total of 12 PTs by the end of the Phase 6.
- 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 6th 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.
- Students can also view their ranking within their class and within the entire school.

#### **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, USMLF, etc.)
- As questions are often enhanced with a real-life problem, PT contributes to students' problemsolving 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 II 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 by 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 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 <u>you do not have enough knowledge to understand and solve all the problems presented to you</u>.

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 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 "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 not be a resource person 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 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

- . 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. Review of the Group Rules

(The group rules created in the first session of the term will be remembered.)

- 0. Warmup game
- **0.** 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.)

- 0. 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.)

0. 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)

0. Discussion

(Writing the hypotheses on the Flipchart, bringing the prior knowledge into the learning environment, reviewing the hypotheses, etc.)

- 0. The tutor asks questions that lead students to learning objectives during the discussion
- Determination of learning objectives by students (The learning objectives determined by the student group will be written on the Flipchart by the writer.)
- Feedback (Each group member's thoughts on him/herself, the group, the scenario, the tutor, the PBL flow, the environment, etc.)
- Attendance (Students will sign the student list on the session envelope.)

#### PBL Second Session Flow

- Warmup game
- 0. 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.)
- 0. 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.)
- Reading the scenario of the second session (The tutors will distribute the student copies of the scenario from the session envelope to the students.)
- 0. Discussing the psychosocial dimension of the scenario
- Feedback (Each group member's thoughts on him/herself, the group, the scenario, the tutor, the PBL flow, the environment, etc.)
- 0. Attendance (Students will sign the student list on the session envelope.)
- After the session, the Tutor Evaluation Form is filled by the students on the EYS.

# **PBL STUDENT ASSESSMENT FORM\***

Student Name								
Phase/Committee								
РВ	L Scenario Name							
Tut	or Name							
	ERACTION WITH GROUP / PARTICIPATION TO	Not observed	Poor	Fair	Average	Good	Excellent	Total Point of the Part
GK	OUF	0	1	2	3	4	5	
1.	Starts discussion							
0.	Contribute with valid questions and ideas							
0.	Balances listening and speaking roles							
0.	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	
0.	Determines valid learning issues							
0.	Finds valid sources							
0. lear	Makes independent research on rining issues							
0.	Shows understanding of the concepts and relationships							
СО	MMUNICATION/SHARING KNOWLEDGE	Not observed	Poor	Fair	Average	Good	Excellent	Total Point of the Part
		0	1	2	3	4	5	
0.	Selects data valid for discussion and presentation							
0.	Expresses ideas and knowledge clearly and in an understandable way							
0.	Draws figures, diagrams clearly and in an understandable way							
0.	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	
0.	Generates hypotheses independently							
0.	Reviews hypotheses critically							

	Total Score of the Student □							
Provides proper feedback to group members								
0.	Accepts feedback properly							
0.	Treats all group members as colleagues							
Is sensitive to psychosocial factors affecting patients								
		0	1	2	3	4	5	
PRO	DFESSIONAL ATTITUDE	Not observed	Poor	Fair	Average	Good	Excellent	Total Point of the Part
Describes the difference between normal and pathological conditions								
0.	Integrates basic science and clinical concepts							

sessions				
363310113	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	

<sup>\*</sup>Assessment form should be filled in at the end of

# **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	
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

See details from "Elective Courses Guideline: <a href="https://med.yeditepe.edu.tr/en/academic-program-booklets">https://med.yeditepe.edu.tr/en/academic-program-booklets</a>

# 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:

- The session will be held in two types, conducted by Phase Coordinator and Committee Coordinator, respectively.
- 0. 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/.
- 0. 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 University Faculty of Medicine Undergraduate Medical Education Program (YUFM/UG-ME), Work Descriptions and Introduction of Committees/s/Members,
- Directives on YUFM/UG-ME,
- YUFM/UG-ME Program Outcomes
- Learning Objectives of the Phase
- Academic Program of the Phase
- Teaching and Learning Methods
- Learning Environments and Sources/Resources
- Attendance
- Elective Courses
- 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 90 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 (60 minutes) committee exam questions will be reviewed and discussed by students and faculty.

# Rules of the Committee/ Evaluation Session:

- 1. The <u>Committee/ Evaluation Session</u> 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

# <u>Aim:</u>

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 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 sessions 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 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**

- The phase coordinator will present the program improvements report to the students and the faculty members.
- 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

0. The program improvement brief will be published on the website of Yeditepe University Faculty of Medicine (<a href="http://med.yeditepe.edu.tr">http://med.yeditepe.edu.tr</a>).

## 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 achieving 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 below algorithm.
- 2. All of the students will be required to fill out a form, which is a self-assessment form for the 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.

**<u>Reminder:</u>** For further information about the 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 203	MED 203	MED 203	MED 203	MED 203
	(4E03)	(4E03)	(4E03)	(4E03)	(4E03)
10:00-10:50	MED 203	MED 203	MED 203	MED 203	MED 203
	(4E03)	(4E03)	(4E03)	(4E03)	(4E03)
11:00-11:50	MED 203	MED 203	MED 203	MED 203	MED 203
	(4E03)	(4E03)	(4E03)	(4E03)	(4E03)

12:00-12:50	MED 203	MED 203	MED 203	MED 203	MED 203
	(4E03)	(4E03)	(4E03)	(4E03)	(4E03)
13:00-13:50			LUNCH		
14:00-14:50	MED 203	MED 203	MED 203	MED 202	Elective Course
	(4E03)	(4E03)	(4E03)	(Ground Floor CSL	(SPRING)
15:00-15:50	MED 203	MED 203	MED 203	MED 202	Elective Course
	(4E03)	(4E03)	(4E03)	(Ground Floor CSL)	(SPRING)
16:00-16:50	MED 203	MED 203	MED 203	MED 202	Elective Course
	(4E03)	(4E03)	(4E03)	(Ground Floor CSL)	(SPRING)
17:00-17:50	MED 203	MED 203	MED 203	MED 202	Elective Course
	(4E03)	(4E03)	(4E03)	(Ground Floor CSL)	(SPRING)

# COURSE CODES COURSES and LOCATIONS

MED 203 Basic Medical Sciences II (4E03) or Laboratories\*\*

MED 202 Introduction to Clinical Practice II (CSL)\*\*\* or (4E03)

# **CLASSES**

4E03 Ground Floor

Elective Course Classes Will be announced later

Physiology Laboratory: Room Number 448, Ground Floor, and Room Number 934, 5th Floor, Histology and Embryology Laboratory: Room Number 929-930, 5th Floor Anatomy Laboratory: C0547 and 3108 Cadaver Room, Ground Floor (-1) Microbiology Laboratory: Room Number: 934, 5th Floor, Pathology Laboratory: Room Number: 929-930, 5th Floor, Medical Faculty Block

\*\*\* MED 202 Practical Lectures will be held at Clinical Skills Laboratory (CSL) 442, Ground Floor.

<sup>\*\*</sup> MED 203 Laboratory sessions will be held at the laboratories of related departments:

<sup>\*\*\*\*</sup> CSL will be held on Thursdays during the Fall and Spring semesters.

# **RECOMMENDED TEXTBOOKS**

NO	DEPARTMENT	ТЕХТВООК	AUTHOR	PUBLISHER
		Gray's Anatomy for Students	R.L. Drake et al, 3rd Edition, 2014	Churchill Livingstone
		Last's Anatomy: Regional and Applied	Chummy S. Sinnatamby, 12th Edition	Churchill Livingstone
1	ANATOMY	A Textbook of Neuroanatomy	Maria Patestas, Leslie P. Gartner, 2nd Edition, 2016	Wiley-Blackwell
		Hollinshead's Textbook of Anatomy	Cornelius Rosse, Penelope Gaddum-Rosse, 5th Edition, 1998	Lippincott Williams & Wilkins
		Textbook of Biochemistry with Clinical Correlations	Thomas M. Devlin	Wiley-Liss Publishing Company
2	BIOCHEMISTRY	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	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 13 <sup>a</sup> Ed.	Anthony Mescher	Mc-Graw-Hill Companies
	EMBRYOLOGY	The Developing Human: Clinically Oriented Embryology, 10 <sup>th</sup> Ed.  Keith L. Moore & T. V. N.		Saunders
6	IMMUNOLOGY  Basic Immunology: Functions and Disorders of the Immune System		Abul K. Abbas, Andrew H. H. Lichtman, Shiv Pillai, 5th edition, 2015	Elsevier
7	MEDICAL BIOLOGY	Molecular Biology of the Cell	Bruce Alberts et al	Garland Science
8	MEDICAL MICROBIOLOGY	Medical Microbiology: with Student Consult	P. R. Murray et al	Saunders
9	PATHOLOGY	Basic Pathology, 10e	Vinay Kumar MBBS MD et al. 2017 (ISBN-13: 978-0323353175)	Elsevier
		Goodman & Gilman's The Pharmacological Basis of Therapeutics	L.L. Brunton ed.	McGraw-Hill, New York,
10	PHARMACOLOGY	Basic and Clinical Pharmacology	B. G. Katzung	McGraw-Hill, New York
		Principles of Pharmacology	Golan, D.E et al	Lippincott Williams & Wilkins
		Guyton and Hall Textbook of Medical Physiology	John E. Halland Michael E. Hall, 15th Edition, 2025	Saunders
11	PHYSIOLOGY	Medical Physiology	Walter F. Boron, Emile L. Boulpaep 3rd Edition, 2016	Elsevier
		Human Physiology	Stuart Ira Fox, Krista Rompolski , 16th Edition, 2022	McGraw-Hill Education

# MED - 203 - COMMITTEE I - CARDIOVASCULAR SYSTEM

# DISTRIBUTION of LECTURE HOURS September 08 - October 17, 2025 COMMITTEE DURATION: 6 WEEKS

COURSES	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	SMALL GROUP DISCUSSION	TOTAL
	DISCIPLINE / COMPONENTS				
	ANATOMY	15	2GX4H	0	19
	BIOCHEMISTRY	12	4GX2H	0	14
	BIOPHYSICS	10	0	0	10
	BIOSTATISTICS	2	0	0	2
	HISTOLOGY & EMBRYOLOGY	12	2GX4H	0	16
	IMMUNOLOGY	2	0	0	3
MED 203	MEDICAL BIOLOGY	2	0	0	2
	MEDICAL MICROBIOLOGY	8	4GX1H	0	9
	PATHOLOGY	7	0	0	7
	PHYSIOLOGY	36	4GX5H	0	39
	SCIENTIFIC RESEARCH and PROJECT - II	2	0	5GX3H	5
	PBL	0	0	6	6
	TOTAL	107	16	9	132
MED 202	INTRODUCTION to CLINICAL PRACTICE- II	5H	5GX3H	0	8
INDEPE	NDENT LEARNING HOURS		88	3	•

	Head	Burcu GEMİCİ BAŞOL, PhD Prof.
Coordination Committee	Secretary	Alev CUMBUL, PhD Assoc. Prof.
Coordination Committee	Member	Mehtap KAÇAR, MD PhD Prof.
	Member	Akif MEHERREM, PhD Assist. Prof.

# COMMITTEE I - CARDIOVASCULAR SYSTEM LECTURERS

MED 203 BASIC MEDICAL SCIENCES II					
DISCIPLINE	LECTURERS				
ANATOMY	M.Ayberk KURT, MD, PhD. Prof. Erdem SÖZTUTAR, MD, Assist. Prof. Paria SHOJAOLSADATI, PhD. Assist. Prof. LAB: Edibe BİLİŞLİ KARA, PhD. Lecturer LAB: Ahmet SAÇ, MD, PhD. Lecturer				
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof. Yeşim ÖZARDA MD Prof. LAB: Müge KOPUZ ALVAREZ NOVAL, PhD Assist. Prof. LAB: Deniz DEMİRTAŞ, MD				
BIOPHYSICS	Akif MEHERREM, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assoc. Prof.				
BIOSTATISTICS	E. Çiğdem KELEŞ, PhD Assist. Prof.				
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD Prof.				
THOTOLOGY & LINDKYOLOGY	Alev CUMBUL, PhD Assoc. Prof.				
IMMUNOLOGY	Latife Arzu ARAL, MD PhD Prof.				
MEDICAL BIOLOGY	Ayşe ÖZER, PhD Prof. Deniz KIRAÇ, PhD Prof. Seda GÜLEÇ YILMAZ PhD, Prof.				
MEDICAL MICROBIOLOGY	Güner SÖYLETİR, MD PhD Prof. Pınar ÇIRAGİL, MD Prof. Aynur EREN TOPKAYA, MD Prof. Nilgün ÇERİKÇİOĞLU, MD Prof. Rabia CAN, MD, Assoc. Prof. LAB: Selvi DUMAN BAKIREZER, PhD				
PATHOLOGY	Aydın SAV MD Prof.				
PHYSIOLOGY	Mehtap KAÇAR, MD PhD Prof. Burcu GEMİCİ BAŞOL, PhD Prof.				
SCIENTIFIC RESEARCH AND PROJECT-II	Aylin YABA UÇAR, PhD Prof. (SRP coordinator) Soner DOĞAN, PhD Prof.				

## OTHER COURSES

OTHER COURSES					
MED 202 INTRODUCTION TO CLINICAL PRACTICE II					
DISCIPLINE	LECTURERS				
CLINICAL SKILLS LAB	Tümay SADIKOĞLU, MD, Assist. Prof Duygu ALTIPARMAK, MD, Specialist, Instructor E. Güler ÜNVER, Specialist, Instructor				

# **COMMITTEE I - CARDIOVASCULAR SYSTEM**

# **AIM and LEARNING OBJECTIVES**

## <u>AIMS</u>

- 1. To convey knowledge about biophysical, biological, anatomical, embryological, histological, physiological and biochemical properties of cardiovascular system,
- 2. To convey knowledge on hemodynamics of cardiovascular system,
- 3. To convey information about electrical activity and functional activity of heart by defining all basic parameters,
- 4. To convey information about cardiovascular system anatomy
- 5. To convey basic, general knowledge about immunology,
- 6. To convey basic, general knowledge about microbiology and information about the structural/biological features and pathogenesis of fungi,
- 7. To convey basic knowledge about biostatistics.

# **LEARNING OBJECTIVES**

At the end of this committee, students should be able to:

For cardiovascular systems;

- 1.1. explain biophysical changes,
- 1.2. associate with the clinical reflections.
- 1.3. to convey basic knowledge about biostatistics
- 2.0. For cardiovascular system;
  - 2.1. explain biological characteristics of the system,
  - 2.2. associate with the clinical reflections.
- 3.0. For cardiovascular system;
  - 3.1. describe their anatomy,
  - 3.2. associate with adjacent tissues and organs,
  - 3.3. explain their functional and clinical reflections.
- 4.0. For thorax and diaphragm
  - 4.1. describe their anatomy,
  - 4.2. associate with adjacent tissue and organs,
  - 4.3. explain their functional and clinical reflections.
- 5.0. Explain the development of Head; Splanchnocranium, Neurocranium
  - 5.1. Describe of development of Neck and Pharyngeal Arches and Anomalies
- 6.0. Explain the developmental stages of heart,
  - 6.1. explain developmental stages of arteries, veins and capillaries,
  - 6.2. associate the relation between major birth abnormalities and developmental process.
- 7.0. Explain the histological properties of heart
  - 7.1. Explain the histological features of arteries, veins and capillaries
  - 7.2. Explain the histological properties of Lymph organs
  - 7.3. explain the histological features of Blood
- 8.0. Explain hemodynamics of cardiovascular system and electrical activity of heart by biophysical mechanisms.
- 9.0. Describe the structure, functions, synthesis and degradation of hemoglobin.
- 10.0. Describe erythrocyte-specific metabolisms.
- 11.0. Describe formation, differentiation and functions of blood cells.
- 12.0. Describe physiopathology of diseases, such as anemia, leukemia, hemophilia.
- 13.0. Describe heart rhythm, cardiac output and cardiac cycle.
- 14.0. Describe nervous (autonomous) control of the cardiovascular system.
- 15.0. Explain functions of the cardiovascular system.
- 16.0. Explain functions and dynamics of the circulatory system.
- 17.0. Explain measurements of hematocrit, blood group analysis, blood pressure and ECG methods.
- 18.0. For immune system;
  - 18.1. explain development and differentiation of immune cells,

- 18.2. relate changes with diseases,
- 18.3. describe the properties of immune response.
- 19.0. For hemodynamic changes;
  - 19.1. explain mechanisms of development,
  - 19.2. describe mechanisms for cellular damage,
  - 19.3. describe pathologies occurring due to cell and tissue damage.
- 20.0. Describe the factors that determine pathology as a basic science.
- 21.0. Explain the factors of tissue damage
- 22.0. Describe the pathological consequences and interactions of cellular injury on the cell and tissue morphology with examples.
- 23.0. Describe examples of pathological consequences of immune response.
- 24.0. Explain the factors that affect the clinical course and outcome of cell injury
- 25.0. List disorders resulting from hemodynamic changes.
- 26.0. Describe how to discuss scientific articles in the view of literature
- 27.0. Prepare a presentation of scientific research
- 28.0. For statistical decision
  - 28.1. lists the types of the statistical hypothesis.
  - 28.2. lists the types of errors in statistical decision making
  - 28.3. explain the steps of a statistical hypothesis test
- 29.0 Explain the importance of microbiology in medicine
- 30.0 Describe how to cultivate and identify microorganisms in laboratory
- 31.0 Describe microbial population in human body and their environment
- 32.0 Explain the host and parasite interaction during infection
- 33.0 Explain case scenarios related to basic medical science topics in a clinical context.

# **COMMITTEE I - CARDIOVASCULAR SYSTEM COMMITTEE I ASSESSMENT MATRIX**

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRIBUTION of MCQs				
LEARNING OBJECTIVES	DISCIPLINE	LECTURER INSTRUCTOR	CE	FE	IE	TOTAL	
3.0-4.0, 33.0	ANATOMY	Dr. M. A. KURT	15	5	5	24	
9.0-10.0, 33.0	BIOCHEMISTRY	Dr. Y. Özarda	11	4	4	19	
1.0, 8.0	BIOPHYSICS	Dr. A. Meherrem	8	4	4	17	
28.0	BIOSTATISTICS	Dr. Ç. Keleş	2	1	1	4	
	HISTOLOGY &	Dr. A. Yaba Uçar	6	2	2	10	
5.0-7.0, 33.0	EMBRYOLOGY	Dr. A. Cumbul	6	2	2	8	
18.0	IMMUNOLOGY	Dr. L. A. Aral	3	1	1	5	
2.0	MEDICAL BIOLOGY	Dr. S.Güleç Yılmaz	2	1	1	6	
29.0-32.0, 33.0	MEDICAL MICROBIOLOGY	Dr. G. Söyletir Dr. N. Çerikçioğlu Dr. P. Çıragil Dr. Rabia Can	8	3	3	14	
19.0-25.0, 33.0	PATHOLOGY	Dr. A. Sav	6	3	3	12	
44.0.47.0.22.0	DI IVOIOLOGY	Dr. M. Kaçar	22	40	40	50	
11.0-17.0, 33.0	PHYSIOLOGY	Dr. B. Gemici Başol	32	12	12	56	
33.0	PBL		1	0	0	1	
		TOTAL	100	38/200#	38/2 00#	176	
			DIST	RIBUTIO	N of L	AB POINTS	
LEARNING OBJECTIVES		DISCIPLINE	ı	.PE		QUİZ	
3.0-4.0	ANATOMY			30			
8.0-10.0	BIOCHEMISTRY		5				
5.0-7.0	HISTOLOGY & EMBRYC	DLOGY		20			
29.0-32.0	MEDICAL MICROBIOLO	_	5				
8.0- 17.0	PHYSIOLOGY	40					
		TOTAL			100		

Total number of MCQs are 100, equal to100 pts. Each question has 1 pt.).

Total value of LPE is equal to 100 points

Committee Score (CS) = 95% of [90% CE (MCQ and SbMCQ) + 10% (LPE)] + 5% of PBL-P

Committee Score (CS) = 95% of [90% CE (MCQ and Abbreviations: MCQ: Multiple Choice Questions SbMCQ: Scienario-based Multiple Choice Questions LPE: Laboratory Practical Exam CE: Committee Exam CS: Committee Score FE: Final Exam ICE: Incomplete Exam Pts.: Points ## In FF and ICF 38 out of 200 FF and ICF MCQs and ## In FF and ICF 38 out of 200 FF and ICF MCQs and ICF MCQS and ICF MC

<sup>#</sup> In FE and ICE, 38 out of 200 FE and ICE MCQs and SbMCQ will be from Committee I (Each question is 0.5 pt, equal value

# COMMITTEE I - CARDIOVASCULAR SYSTEM I WEEK / 08-12 Sep 2025

			<u> </u>		
	Monday 08-Sep-2025	Tuesday 09-Sep-2025	Wednesday 10-Sep-2025	Thursday 11-Sep-2025	Friday 12-Sep-2025
09.00- 09.50		Independent Learning	Lecture Thoracic Cavity & Mediastinum M. Ayberk Kurt	Lecture Immunology of Heart and Vessels Latife Arzu Aral	Lecture Synthesis of Hemoglobin, Disorders Concerning Synthesis of Hemoglobin Yeşim Özarda
10.00- 10.50	PBL	Lecture Functions of Blood Burcu Gemici Başol	Lecture Thoracic Cavity & Mediastinum <i>M. Ayberk Kurt</i>	Lecture Immunology of Heart and Vessels Latife Arzu Aral	Lecture Synthesis of Hemoglobin, Disorders Concerning Synthesis of Hemoglobin Yeşim Özarda
11.00- 11.50		Lecture Porphin, Porphyrins, Heme, Hemoglobin, Structure of Hemoglobin Yeşim Özarda	Lecture Sampling, Data Collection and Data Processing E. Çiğdem Keleş	Lecture Pericardium and Outer Surface of the Heart M. Ayberk Kurt	Lecture Histology of Circulatory Systems; Gn Spec. Arteries Aylin Yaba Uçar
12.00- 12.50	Introductory Session Introduction to Phase II Phase II Coordination Committee/ Introduction to Committee I Secretary of Committee	Lecture Porphin, Porphyrins, Heme, Hemoglobin, Structure of Hemoglobin Yeşim Özarda	Lecture Statistical Decision Theory, Test of Hypothesis and Significance E. Çiğdem Keleş	Lecture Pericardium and Outer Surface of the Heart M. Ayberk Kurt	Lecture Histology of Circulatory Systems: Capillaries, Veins & Heart Aylin Yaba Uçar
13.00- 13.50			Lunch Break		
14.00- 14.50	Lecture Introduction to Cardiovascular System M. Ayberk Kurt	Lecture Molecular Basis of Cardiovascular System Seda Güleç Yılmaz	Lecture Erythrocyte Burcu Gemici Başol		Lecture Leukocytes & Lymphocytes Burcu Gemici Başol
15.00- 15.50	Lecture Biophysics of Hemodynamics: Measurements of Different Hemodynamic Parameters Akif Meherrem	Lecture Molecular Basis of Cardiovascular System Seda Güleç Yılmaz	Lecture Erythrocyte Burcu Gemici Başol	ICP / CSL: Intramuscular/Intradermal/ Subcutaneous Injection	Lecture Leukocytes & Lymphocytes <i>Burcu Gemici Başol</i>
16.00- 16.50	Lecture Biophysics of Hemodynamics: Measurements of Different Hemodynamic Parameters Akif Meherrem	Independent Learning	Independent Learning	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver Group A	Independent Learning
17.00-17.50	Independent Learning	Independent Learning	Independent Learning		Independent Learning

IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinators.

# COMMITTEE I - CARDIOVASCULAR SYSTEM II. WEEK / 16- 19 Sep 2025

_	II. WEEK/ 10- 19 Sep 2025					
	Monday 15-Sep-2025	Tuesday 16-Sep-2025	Wednesday 17-Sep-2025		ursday ep-2025	Friday 19-Sep-2025
09.00- 09.50		Lecture Rhythmical Excitation of the Heart Burcu Gemici Başol	Lecture Microcirculation and the Lymphatic System Burcu Gemici Başol	Independ	lent Learning	Lecture Principles of Hemodynamics Burcu Gemici Başol
10.00- 10.50	PBL	Lecture Rhythmical Excitation of the Heart Burcu Gemici Başo	Lecture Capillary Fluid Exchange, Interstitial Fluid, and Lymph Flow Burcu Gemici Başol	Introduction	ecture on to Pathology <i>lin Sav</i>	Lecture Principles of Hemodynamics Burcu Gemici Başol
11.00- 11.50	.00- 11.50  Lecture Chambers of the Heart M. Ayberk Kurt		Lecture Functions of Hemoglobin Yeşim Özarda	Laboratory / Anatomy Pericardium, Outer Surface, Chambers of the heart  M. Ayberk Kurt & Edibe Bilişli Kara & Ahmet Saç Group 2		Lecture Development of Circulatory Systems; Endocardial Tube Formation & Looping Alev Cumbul
12.00- 12.50	Independent Learning	Lecture Chambers of the Heart <i>M. Ayberk Kurt</i>	Lecture Functions of Hemoglobin Yeşim Özarda	Group 1		Lecture Development of Circulatory Systems; Septation Alev Cumbul
13.00- 13.50			Lunch Break			
14.00- 14.50	Lecture Degradation of Hemoglobin Yeşim Özarda	Lecture Introduction to Medical Microbiology Pinar Çiragil	Lecture Biophysics of Hemodynamics: Measurements of Different Hemodynamic Parameters Akif Meherrem	Intradermal/ Sub IDr. Tümay Sadıkoğlı Dr. Gu	Intramuscular/ ocutaneous Injection u / Dr. Duygu Altıparmak/ üler Ünver oup B	Lecture Bacterial pathogenicity <i>Güner Söyletir</i>
15.00- 15.50	Lecture Degradation of Hemoglobin Yeşim Özarda	Lecture Cultivation and identification of bacteria Pınar Çıragil	Lecture Biophysics of Hemodynamics: Measurements of Different Hemodynamic Parameters Akif Meherrem			Lecture Microbial toxins <i>Güner Söyletir</i>
16.00- 16.50	Independent Learning	Laboratory / Anatomy Thoracic wall, Cavity & Mediastinum M. Ayberk Kurt & Edibe Bilişli Kara & Ahmet Saç Group 1	Lecture Great Vessels of the Heart <i>M. Ayberk Kurt</i>	Group B	SRPC SGS Group C Soner Doğan+	Independent Learning
17.00-17.50	Independent Learning	Group 2	Lecture Major Vessels of the Body <i>M. Ayberk Kurt</i>			Independent Learning

O zaman IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinators.

# COMMITTEE I - CARDIOVASCULAR SYSTEM

III. WEEK / 22- 26 Sep 2025

			•			
	Monday 22-Sep-2025	Tuesday 23-Sep-2025	Wednesday 24-Sep-2025		rsday p-2025	Friday 26-Sep-2025
09.00- 09.50	Lecture Development of Circulatory Systems; Arteries Alev Cumbul	Independent Learning	Lecture Introduction to Bioelectromagnetics Electric Field Akif Meherrem	Laboratory / Histology &Embryology Histology of CVS (Aort,	Independent Learning	Lecture Adaptations Aydın Sav
10.00- 10.50	Lecture Development of Circulatory Systems; Veins Alev Cumbul	Lecture Blood Types and Transfusion Reactions Mehtap Kaçarl	Lecture Introduction to Bioelectromagnetics Electric Field Akif Meherrem	Heart, Vena Cava, Muscular arteries) <i>Alev Cumbul &amp; Aylin Yaba Uçar</i> Group 1	Laboratory / Anatomy Lymphatic System M. Ayberk Kurt & Edibe Bilişli Kara & Ahmet Saç Group 2	Lecture Adaptations <i>Aydın Sav</i>
11.00- 11.50	Lecture Coronary arteries, Cardiac Veins, and Cardiac Conduction System M. Ayberk Kurt	Lecture Blood Types and Transfusion Reactions Mehtap Kaçar	Lecture Development of Circulatory Systems;Congenital Heart Anomalies Alev Cumbul	Group 2	Group 1	Lecture Histology of Lymph Organs; General Aspects, Thymus and Lymph Node Aylin Yaba Uçar
12.00- 12.50	Lecture Coronary arteries, Cardiac Veins, and Cardiac Conduction System M. Ayberk Kurt	Lecture Fetal Circulation <i>M. Ayberk Kurt</i>	Lecture Development of Circulatory Systems; Arteries and Veins Anomalies Alev Cumbul	Gloup I	Independent Learning	Lecture Histology of Lymph Organs; Spleen and MALT (Tonsils) Aylin Yaba Uçar
13.00- 13.50			Lunch Break			
14.00- 14.50	Lecture Platelets and Coagulation <i>Mehtap Kaçar</i>	Laboratory / Anatomy Coronary arteries, Cardiac Veins, Great Vessels, Cardiac Conduction System Edibe Bilişli Kara & Ahmet Saç Group 1	Lecture Regulation of Cardiac Function <i>Mehtap Kaçar</i>	Inje Dr. Tümay Sadıkoğlu Dr. Gü	ntradermal/ Subcutaneous ction / <u>Dr. Duygu Altıparmak</u> / <u>ler Ünver</u> up C	Lecture Vascular Distensibility and Functions of Arterial and Venous Systems Burcu Gemici Başol
15.00- 15.50	Lecture Platelets and Coagulation <i>Mehtap Kaçar</i>	Group 2	Lecture Regulation of Cardiac Function <i>Mehtap Kaçar</i>			Lecture Vascular Distensibility and Functions of Arterial and Venous Systems Burcu Gemici Başol
16.00-16.50	Lecture / SRPC-II Abstract Writing Soner Doğan	Independent Learning	Lecture Introduction to Lymphatic System <i>M. Ayberk Kurt</i>	Group C	SRPC SGS Group D Soner Doğan	Independent Learning
17.00-17.50	Lecture / SRPC - II Drawing Graphical Abstract Soner Doğan	Independent Learning	Lecture Circulation of Lymph <i>M. Ayberk Kurt</i>			Independent Learning

IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinators

# COMMITTEE I - CARDIOVASCULAR SYSTEM IV. WEEK / 29 Sep- 03 Oct 2025

	Monday 29-Sep-2025		esday ep-2025		nesday ct-2025		ırsday ct-2025	Frida 03-Oct-			
09.00- 09.50	Lecture Human microbiota Nilgün Çerikçioğlu	Laboratory Lecture / Microbiology <i>Güner Söyletir</i> Group A, B, C, D		Ischemia, ir sh	cture nfarction and lock un Sav	Lecture Introduction to Bioelectromagnetics. Electromagnetic Field Akif Meherrem		Laboratory/ Physiology Blood Pressure - Heart	Laboratory / Biochemistry Peripheral Blood Smear		
10.00- 10.50	Lecture Microbiology of air, water, and milk <i>Nilgün Çerikçioğlu</i>	Laboratory / Physiology Hematocrit Determination and Blood Typing & Bleeding Time Mehtap Kaçar & Burcu Gemici Başol Group D	Laboratory / Microbiology Safety in microbiology laboratory and Use of microscope Güner Söyletir, Pınar Çiragil&Aynur Eren Topkaya & Rabia Can & Selvi Duman Bakırezer Group C	Lec Ischemia, ir sh	cture nfarction and lock <i>In Sav</i>	Bioelectrom on th	cture agnetic Effects le Heart deherrem	Sounds  Mehtap Kaçar & Burcu  Gemici Başol  Group A	Jale Çoban & Yeşim Özarda Müge Kopuz Alvarez Noval & Deniz Demirtaş Group C		
11.00- 11.50	Lecture Local and Humoral Control of Blood Flow by the Tissues Burcu Gemici Başol	Group C	Group D	Disorders Hemoglobir	cture Concerning n Metabolism n Özarda	Regulation of	cture Blood Pressure ap Kaçar	Group C	Group A		
12.00- 12.50	Lecture Local and Humoral Control of Blood Flow by the Tissues <i>Burcu Gemici Başol</i>	Group A	Group B	Blood Coagu Hemo	Lecture Blood Coagulation, Primary Hemostatsis Yeşim Özarda		cture Blood Pressure ap Kaçar	•	Group A		
13.00- 13.50			Lunch	Break							
14.00- 14.50	Lecture Host-Parasite interactions <i>Güner Söyletir</i>	Group B	Group A	Cardiac Ou Return and	Lecture Cardiac Output, Venos Return and Regulation Burcu Gemici Başol		Itput, Venos Regulation  Subcutaneous I  Dr. Tümay Sadık		ar/Intradermal/ cous Injection Sadikoğlu / Dr. Altiparmak/ der Ünver	Group B	Group D
15.00- 15.50	Lecture Viral Pathogenicity <i>Güner Söyletir</i>	Independ	ent Learning	Lecture Cardiac Output, Venos Return and Regulation Burcu Gemici Başol		Cardiac Output, Venos Return and Regulation			SRPC SGS		
16.00- 16.50	Independent Learning	AFYA for International	Independent Learning for Turkish	AFYA for	Independent Learning for	Group D	Group E Soner Doğan	Group D	Group B		
17.00- 17.50	Independent Learning	Students	Students	Students Turkish				Group D			

# COMMITTEE I - CARDIOVASCULAR SYSTEM V. WEEK / 06 - 10 Oct 2025

	V. WELK/ 00 = 10 Oct 2025							
	Monday 06-Oct-2025	Tuesday 07-Oct-2025		Wedneso 08-Oct-2			rsday ct-2025	Friday 10-Oct-2025
09.00- 09.50	Lecture Hemorheology Akif Meherrem	Laboratory / Histology &Embryology Histology of Lymphoreticular System (Thymus, Lymph	Laboratory / Physiology ECG I-ECG II Mehtap Kacar &	Laboratory / Physiol G II ECG I-ECG II pçar & Mehtap Kaçar & Bu mici Gemici Başol I Group D		Hyperemi	ecture a & Congestion odin Sav	Lecture Review of Cardiovascular Anatomy M. Ayberk Kurt
10.00- 10.50	Lecture Hemorheology Akif Meherrem	Node, Spleen, Tonsils) Alev Cumbul & Aylin Yaba Uçar Group 2	Burcu Gemici Başol Group A			Hyperem	Lecture nia & Congestion Lydın Sav	Lecture Coronary Circulation Mehtap Kaçar
11.00- 11.50	Lecture Heart Valves and Heart Sounds <i>Mehtap Kaçar</i>						ecture tion of the Circulation tap Kaçar	Lecture Cardiac Failure <i>Mehtap Kaçar</i>
12.00- 12.50	Lecture Heart Valves and Heart Sounds <i>Mehtap Kaçar</i>	Group 1	Group C	Grou	ib R	Lecture Nervous Regulation of the Circulation <i>Mehtap Kaçar</i>		Lecture Circulatory Shock and Physiology of Its Treatment <i>Mehtap Kaçar</i>
13.00- 13.50			Lunch Break					
14.00-14.50	Lecture Blood Coagulation, Primary Hemostasis Yeşim Özarda	Lecture Introduction to Bioelectr Magnetic Fiel Akif Meherrer	d	Lecture Cardiac Arrhythmias <i>Mehtap Kaçar</i>		ICP / CSL: Intramuscular/Intradermal/ Subcutaneous Injection Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver Group E		Lecture Development of Head; Splanchocranium, Neurocranium Aylin Yaba Uçar
15.00- 15.50	Secondary Hemostasis, Procoagulation, Anticoagulation, Fibrinolysis Yeşim Özarda	Magnetic Fiel	Lecture Introduction to Bioelectromagnetics: Magnetic Field Akif Meherrem		Lecture Cardiac Arrhythmias <i>Mehtap Kaçar</i>			Lecture Development of Neck; Pharyngeal Arches and Anomalies Aylin Yaba Uçar
16.00- 16.50	Lecture Principles of Electrocardiography Burcu Gemici Başol	AFYA for International	Independent	AFYA for	Independent Learning for	Group E	SRPC SGS Group A Soner Doğan	Independent Learning
17.00-17.50	Lecture Electrocardiographic Interpretation of Cardiac Abnormalities Burcu Gemici Başol	Students	Learning for Turkish Students	International Students	Turkish Students			Independent Learning

IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinators.

# COMMITTEE I - CARDIOVASCULAR SYSTEM VI. WEEK / 13 – 17 Oct 2025

	Monday 13-Oct-2025	Tuesday 14-Oct-2025		Wednesday 15-Oct-2025		Thursday 16-Oct-2025	Friday 17-Oct-2025
09.00- 09.50	Independent Learning	Independent Learning		Independent Learning		Assessment Session  (Anatomy, Physiology, Histology&Embryology, Microbiology, Biochemisrty Practical Exams)	Independent Learning
11.00- 11.50						Assessment Session  Committee I (MCQ)	
13.00- 13.50				Program Evaluation Session Evaluation of the Committee I Program Secretary of the Committee	Lunch Break		
14.00- 14.50	Independent Learning	Independent Learning		Independent Learn	ing	Independent Learning	Independent Learning
15.00- 15.50 16.00- 16.50		AFYA for International Students	Ind ep	AFYA for International Students	Independent Learning		
17.00-17.50			en de nt Le ar nin g		-		

IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinators.

# MED - 203 - COMMITTEE II - RESPIRATORY SYSTEM DISTRIBUTION of LECTURE HOURS October 20 - November 28, 2025 COMMITTEE DURATION: 6 WEEKS

COURSES	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	SMALL GROUP DISCUSSION	TOTAL
	DISCIPLINE / COMPONENTS				
	ANATOMY	11	2GX3H	0	14
	BIOPHYSICS	4	0	0	4
	BIOSTATISTICS	4	0	0	4
	HISTOLOGY & EMBRYOLOGY	6	2GX2H	0	8
	IMMUNOLOGY	7	0	0	7
MED 203	MEDICAL BIOLOGY	2	0	0	2
MED 203	MEDICAL GENETICS	17	0	0	18
	MEDICAL MICROBIOLOGY	19	4GX6H	0	25
	PATHOLOGY	9	0	0	9
	PHYSIOLOGY	17	4GX2H	0	19
	SCIENTIFIC RESEARCH and PROJECT-II	0	0	5GX3H	3
	PBL	0	0	6	6
	TOTAL	96	13	9	119
MED 202	MED 202 INTRODUCTION to CLINICAL PRACTICE- II		5GX3H		8
INDEPENDEN	INDEPENDENT LEARNING HOURS		74	4	

	Head	L. Arzu Aral, MD, Ph.D., Prof.
Coordination Committee	Secretary	Edibe BİLİŞLİ KARA, Ph.D., Lecturer
	Member	Alev CUMBUL, Ph.D., Assoc. Prof.
	Member	Deniz KIRAÇ, Ph.D., Prof.

# COMMITTEE II - RESPIRATORY SYSTEM LECTURERS

MED 203 BASIC MEDICAL SCIENCES II					
DISCIPLINE	LECTURERS				
ANATOMY	M.Ayberk KURT, MD, PhD. Prof. Erdem SÖZTUTAR, MD Assist. Prof. Paria SHOJAOLSADATI, PhD. Assist. Prof. Edibe BİLİŞLİ KARA, PhD. Lecturer LAB: Ahmet SAÇ, MD, PhD. Lecturer				
BIOPHYSICS	Akif MEHERREM, PhD, Assist. Prof. 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.				
IMMUNOLOGY	Latife Arzu ARAL, MD PhD Prof.				
MEDICAL BIOLOGY	Deniz KIRAÇ, PhD, Prof.				
MEDICAL GENETICS	Didem SEVEN, PhD, Assist Prof.				
MEDICAL MICROBIOLOGY	Güner SÖYLETİR, MD PhD, Prof. Aynur EREN TOPKAYA, MD, Prof. Pınar ÇIRAGİL, MD, Prof. Rabia CAN, MD, Assoc. Prof. LAB: Selvi DUMAN BAKIREZER, PhD				
PATHOLOGY	Aydın SAV, MD Prof.				
PHYSIOLOGY	Mehtap KAÇAR, MD, PhD, Prof. Burcu GEMİCİ BAŞOL, PhD, Prof				
SCIENTIFIC RESEARCH AND PROJECT-II	Aylin YABA UÇAR PhD, Prof. (Responsible Faculty Member) Soner DOĞAN, PhD, Prof.				

## OTHER COURSES

MED 202 INTRODUCTION to CLINICAL PRACTICE II						
DISCIPLINE LECTURERS						
CLINICAL SKILLS LAB	Cem ŞİMŞEK, MD. Assist. Prof Mustafa YAZICIOĞLU, MD. Assist. Prof Gökhan GENCER, MD. Assist. Prof. Hande Candemir, MD. Assist. Prof. Alev ECEVİZ, MD, Specialist, Instructor Dijan TAV ŞİMŞEK, MD, Specialist, Instructor F.Atakan GÜLTEKİN, MD, Research Assistant, Instructor Rabia Sarıyıldız, MD, Research Assistant, Instructor					

# **COMMITTEE II - RESPIRATORY SYSTEM**

# **AIM and LEARNING OBJECTIVES**

# **AIMS**

- 1. To convey information about biophysical, biological, anatomical, embryological, histological, and physiological properties of respiratory system,
- 2. To convey information about functional activity of lungs by defining all basic parameters,
- 3. To convey information about respiratory system anatomy,
- 4. To convey basic, general knowledge about immunology,
- 5. To convey basic, general knowledge and information about the structural/biological features and pathogenesis of bacteria,
- 6. To convey information about good laboratory and clinical practices in research projects,
- 7. To convey basic knowledge about biostatistics.

## **LEARNING OBJECTIVES**

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

#### KNOWLEDGE

- 1.0. For respiratory system;
  - 1.1. explain biophysical changes,
  - 1.2. associate with the clinical reflections.
- 2.0. For nose, paranasal sinus, pharynx, larynx, and lung;
  - 2.0. describe their anatomy,
  - 2.1. associate with adjacent tissues and organs,
  - 2.2. explain their functional and clinical reflections.
- 3.0. Explain developmental stages and list embryological origins of organs,
  - Associate the relation between major birth abnormalities and developmental process.
  - 3.2. Explain histological properties of upper respiratory system
  - 3.3. Explain histological properties of lower respiratory system
- 4.0. Explain functions of the pulmonary system.
- 5.0. Explain mechanisms of oxygen and carbon dioxide exchange and transportation.
- 6.0. Describe dynamics of microcirculation together with general and pulmonary circulation.
- 7.0. Describe nervous (autonomous) control of the pulmonary system.
- 8.0. Describe dynamics and control of pulmonary circulation.
- 9.0. Describe the measurement of the spirometry method.
- 10.0. Explain basics of exercise physiology and the effects of exercise on the cardiovascular and respiratory systems
- 11.0. Explain the adaptive changes in the respiratory system in extreme conditions and basic information about pathophysiology of respiratory system disorders.
- 12.0. For immune system;
  - 12.1. describe the properties of pulmonary immune response
  - 12.2. relate changes with infection diseases.
- 13.0. Explain inherited and non-inherited genetic mechanisms in neoplasia.
- 14.0. Describe the structural/biological features of medically important bacteria.
- 15.0. Describe the medically important Respiratory viruses
- 16.0. Explain the action and resistance mechanism of antimicrobial agents.
- 17.0. For endogenous and exogenous harmful agents:
  - 17.1. Describe their mechanisms of cell and tissue damage,
  - 17.2. Describe the adaptation process of cells.
- 18.0. List pathologies resulting from endogenous and exogenous harmful agents and consequently emerging diseases.
- 19.0. Explain the molecular mechanism of lung cancer
- 20.0. Describe how to prepare a scientific research presentation.
- 21.0. Prepare a research article presentation
- 22.0. Explain the steps of a statistical hypothesis test according to the properties of a given data.
- 23.0. For statistical hypothesis,
  - 23.1. list the statistical hypothesis test according to the properties of given date.
  - 23.2. choose the appropriate statistical hypothesis test according to the properties of given data.
- 24.0. Explain case scenario related basic medical science topics in a clinical context.

# **COMMITTEE II - RESPIRATORY SYSTEM COMMITTEE II ASSESSMENT MATRIX**

LEARNING DISCIPLINE			I ECTUPED/INS	LECTURER/ INSTRUCTOR			DISTRIBUTION of MCQs and SbMCQ					
OBJECTIVES	Diocii i	-1141-	LECTORENTINO			F	E	IE	TOTAL			
2.0, 24.0	ANATOMY		Dr. E. Söztutar		11	;	5	5	21			
1.0	BIOPHYSICS	BIOPHYSICS			4	:	2	2	8			
22.0-23.0	BIOSTATISTICS	BIOSTATISTICS			4	:	2	2	8			
0.0.04.0	HISTOLOGY &		Dr. A. Yaba Uçar		2		1	1	40			
3.0, 24.0	EMBRYOLOGY		Dr. A. Cumbul		4	:	2	2	12			
12.0	IMMUNOLOGY		Dr. L. A. Aral		7		1	4	15			
19.0	MEDICAL BIOLO	OGY	Dr. D. Kıraç		2		1	1	4			
13.0	MEDICAL GENE	MEDICAL GENETICS			18	,	9	9	36			
14.0-16.0, 24.0	MEDICAL MICROBIOLOGY		Dr. G. Söyletir Dr. R. Can		19	10		10	40			
17.0-18.0, 24.0	PATHOLOGY	PATHOLOGY		Dr. A. Sav		5		5	19			
4.0-11.0, 24.0	PHYSIOLOGY	PHYSIOLOGY		sol	18	,	9	9	36			
24.0	PBL					(	)	0	1			
			TOTAL		100	35/2	200#	35/200#	200			
	•											
				DIS	TRIBUTIO	N of L	AB AS	B ASSESSMENT POINTS				
LEARNING (	OBJECTIVES	DIS	SCIPLINE		LPE		QUIZ					
2.0, 4.0, 7.0 ANATOMY				40								
3.0	HISTOLOG' EMBRYOLO				10	0						
14.0		MEDICAL N	MICROBIOLOGY		14			6				
5.0, 8.0-11.0		PHYSIOLO	GY		30							
<u> </u>												

Total number of MCQs are 100, equal to 100 pts. Each question has 1 pt.).

Total value of LPE is equal to 100 points

Committee Score (CS) = 95% of [90% CE (MCQ and SbMCQ) + 10 % (LPE)] + 5% of PBL-P

Abbreviations:

MCQ: Multiple Choice Questions

SbMCQ: Scenario-based Multiple Choice Questions

LPE: Laboratory Practical Exam

CE: Committee Exam

CS: Committee Score

FE: Final Exam

ICE: Incomplete Exam

Pts.: Points

# In FE and ICE, 35 out of 200 FE and ICE MCQs and SbMCQ will be from Committee II (Each question is 0.5 pt, equal value)

TOTAL

100

# COMMITTEE II - RESPIRATORY SYSTEM I. WEEK / 20 - 24 Oct 2025

_		1. WELLY 20 24 OU 2020						
	Monday 20-Oct-2025	Tuesday 21-Oct-2025		Wednesday 22-Oct-2025		Thursd 23-Oct-2	•	Friday 24-Oct-2025
09.00- 09.50		Lecture Molecular Basis of Lung Cancer Deniz Kıraç		Lecture Patterns of Single Gene Inheritance Didem Seven		Independent Learning		Independent Learning
10.00- 10.50	PBL	Lecture Molecular Basis of Lung Cancer Deniz Kıraç		Lecture Patterns of Single Gene Inheritance Didem Seven		Lecture Infection and Immunity L. Arzu Aral		Lecture The Human Genome and Chromosomal Basis of Heredity Didem Seven
11.00- 11.50		Lecture Gram Positive Cocci <i>Güner Söyletir</i>		Lecture Gram Negative Cocci <i>Güner Söyletir</i>		Lecture Infection and Immunity L. Arzu Aral		Lecture Test of Hypothesis: Chi-Square <i>E. Çiğdem Keleş</i>
12.00- 12.50	Introduction to Committee II Secretary of Committee	Lecture Gram Positive Cocci <i>Güner Söyletir</i>		Lecture Gram Negative Cocci <i>Güner Söyletir</i>		Lecture Infection and Immunity L. Arzu Aral		Lecture Test of Hypothesis: Chi-Square <i>E. Çiğdem Keleş</i>
13.00- 13.50	Lunch Break							
14.00- 14.50	Lecture Introduction to Respiratory System Erdem Söztutar	Histology of the U	ture Jpper Respiratory act Cumbul	Lecture Cellular Injury and Necrosis <i>Aydın Sav</i>		ICP / CSL: IV A. Eceviz / F Grou	. A. Gültekin	Lecture Gram Negative Small Non-enteric Bacilli: Francisella sp., Pasteurella sp. Güner Söyletir
15.00- 15.50	Lecture Nasal Anatomy and Paranasal Sinuses Erdem Söztutar	Histology of the U	ture Jpper Respiratory act cumbul	Lectui Cellular Injur <i>Aydın</i> S	y and Necrosis			Lecture Gram Negative Small Non-enteric Bacilli: Haemophilus sp., Bordetella sp., Legionella sp. <i>Güner Söyletir</i>
16.00- 16.50	Lecture Introduction to Medical Genetics Didem Seven	AFYA for International	Independent Learning for	AFYA for International	Independent Learning for	Group A	SRPC SGS Group B Soner Doğan	Lecture Gram Negative Small Non-enteric Bacilli: Brucella sp., Bartonella sp and others Güner Söyletir
17.00-17.50	Lecture Introduction to Medical Genetics Didem Seven	Students	Turkish Students	Students	Turkish Students			Independent Learning

IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinators.

# COMMITTEE II - RESPIRATORY SYSTEM II. WEEK / 27 - 31 Oct 2025

	II. WEER 727 - 51 OCT 2025								
	Monday 27-Oct-2025	Tuesday 28-Oct-2025	Wednesday Thursday 29-Oct-2025 30-Oct-2025		Friday 31-Oct-2025				
09.00- 09.50		Lecture The Larynx <i>Erdem Söztutar</i>		Independent L	earning	Independent Learning			
10.00- 10.50	PBL	Lecture The Larynx <i>Erdem Söztutar</i>	NATIONAL HOLIDAY	Independent L	earning	Lecture Gram Positive Aerobic Bacilli <i>Güner Söyletir</i>			
11.00- 11.50		Lecture Pulmonary Ventilation <i>Burcu Gemici Başol</i>	NATIONAL HOLIDAT	Lecture Pulmonary Innate Imm <i>L. Arzu Aral</i>	une Response	Lecture Mycobacteria <i>Güner Söyletir</i>			
12.00- 12.50	Independent Learning	Lecture Pulmonary Ventilation <i>Burcu Gemici Başol</i>		Lecture Pulmonary Innate Imm <i>L. Arzu Aral</i>	une Response	Lecture Mycobacteria Güner Söyletir			
13.00- 13.50	Lunch Break								
14.00- 14.50	Lecture The Pharynx <i>Erdem Söztutar</i>			ICP / CSL: IV Cal C. Şimşek / D. Ta Group E	v Şimşek	Lecture Pleura and Diaphragm <i>Erdem Söztutar</i>			
15.00- 15.50	Lecture The Pharynx <i>Erdem Söztutar</i>					Lecture Pleura and Diaphragm <i>Erdem</i> Söztutar			
16.00- 16.50	Lecture Cytogenetics and Chromosomal Disorders Didem Seven	NATIONAL HOLIDAY	NATIONAL HOLIDAY	Group B	SRPC SGS Group C Soner Doğan	Lecture Pulmonary Circulation, Pulmonary Edema, Pleural Fluid Mehtap Kaçar			
17.00-17.50	Lecture Cytogenetics and Chromosomal Disorders Didem Seven					Lecture Pulmonary Circulation, Pulmonary Edema, Pleural Fluid Mehtap Kaçar			

IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinators

# COMMITTEE II - RESPIRATORY SYSTEM III. WEEK / 3 - 7 Nov 2025

								,		
	Monday 3-Nov-2025		sday /-2025	Wednesday 5-Nov-2025		*		Friday 7-Nov-2025		
09.00- 09.50	Lecture The Trachea <i>Erdem Söztutar</i>	Histology of T Systems: Co	ture he Respiratory nducting Part Cumbul	Lecture Actimomycetes-Nocardia <i>Güner Söyletir</i>		Laboratory / Microbiology Laboratory Identification of Gr(+)cocci and Gr(-)cocci - Il Pınar Çıragil & Aynur Eren Topkaya & Rabia Can & Selvi Duman Bakırezer Group C		Lecture Pulmonary Adaptive Immune Response <i>L. Arzu Aral</i>		
10.00- 10.50	Lecture The Lungs <i>Erdem Söztutar</i>	Histology of T Systems; Res	ture he Respiratory spiratory Part Cumbul	Laboratory Lecture / Microbiology Güner Söyletir Group A, B, C, D		Laboratory / Anatomy Upper Respiratory System Edibe Bilişli Kara & Ahmet Saç Group 1		Lecture Pulmonary Adaptive Immune Response <i>L. Arzu Aral</i>		
11:00-11:50	Lecture Diffusion of Blood Gases <i>Burcu Gemici Başol</i>		ire Blood Gases mici Başol	Laboratory / Microbiology Laboratory Identification of Gr(+)cocci and Gr(-)cocci - I Pınar Çıragil & Aynur Eren Topkaya & Rabia Can & Selvi Duman Bakırezer Group A		Laboratory Identification of Gr(+)cocci and Gr(-)cocci - I Pınar Çıragil & Aynur Eren Topkaya & Rabia Can & Selvi Duman Bakırezer		Group A Group 2		Lecture Regulation of Respiration <i>Burcu Gemici Başol</i>
12:00-12:50	Lecture Diffusion of Blood Gases Burcu Gemici Başol	Lectu Transport of Burcu Gel		Group B		Group B		Lecture Regulation of Respiration Burcu Gemici Başol		
13.00- 13.50					Lunch Break			-		
14.00- 14.50	Lecture Developmental Genetics and Birth Defects Didem Seven	Mycoplasma-Chla	ture amydia-Rickettsia Söyletir	Group C		ICP / CSL: IV Cannulation  M. Yazıcıoğlu / R. Sarıyıldız  Group C		Lecture Development of the Respiratory Systems & Anomalies Aylin Yaba Uçar		
15.00- 15.50	Lecture Developmental Genetics and Birth Defects Didem Seven	Mycoplasma-Chla	ture amydia-Rickettsia Söyletir	Group D				Lecture Development of the Respiratory Systems & Anomalies Aylin Yaba Uçar		
16.00- 16.50	Independent Learning	AFYA for	Independent Learning for	AFYA for Independent		Group C	SRPC SGS Group D Soner Doğan	Lecture Molecular Basis of Genetic Diseases <i>Didem Seven</i>		
17.00-17.50	Independent Learning	Students Turkish		International Students	Learning for Turkish Students			Lecture Tools of Human Molecular Genetics Didem Seven		

# COMMITTEE II - RESPIRATORY SYSTEM IV. WEEK / 10 – 14 Nov 2025

	IV. WEER / 10 = 14 NOV 2025									
	Monday 10-Nov-2025	Tueso 11-Nov		Wednesday 12-Nov-2025		Thursday 13-Nov-2025		Friday 14-Nov-2025		
09.00- 09.50	Commemoration of Atatürk	Independent Learning		Independent Learning		Laboratory / Microbiology Laboratory Identification of Gr (+) and (-) non-enteric bacill – II Pınar Çıragil & Aynur Eren Topkaya & Rabia Can & Selvi Duman Bakırezer Group C		Lecture Principle of Surface Tension & Alveolar Mechanic Akif Meherrem		
10.00- 10.50	Independent Learning	Lecture Aviation, High-Altitude, and Space Physiology Mehtap Kaçar		Laboratory Lecture / Microbiology Güner Söyletir Group A, B, C, D		Güner Söyletir		Group D		Lecture Principle of Surface Tension & Alveolar Mechanic Akif Meherrem
11.00- 11.50	Lecture Modeling in Circulatory & Respiratory Systems Akif Meherrem	Lect Genetics of Com <i>Didem</i> 3	plex Diseases	Laboratory / Microbiology Laboratory Identification of Gr (+) and (-) non- enteric bacilli – I  Pınar Çıragil & Aynur Eren Topkaya & Rabia Can & Selvi Duman Bakırezer Group A		Group A		Lecture Respiratory viruses Rabia Can		
12.00- 12.50	Lecture Modeling in Circulatory & Respiratory Systems Akif Meherrem	Lecture Genetics of Complex Diseases Didem Seven		Group B  Laboratory / Anatomy Larynx-Pleura and Diaphragm Edibe Bilişli Kara & Ahmet Saç Group 2		Group B		Lecture Respiratory viruses Rabia Can		
13.00- 13.50					Lunch Break					
14.00- 14.50	Lecture Cancer Genetics and Genomics Didem Seven	Lectu Test of Hypothes E. Çiğden	sis: Chi-Square	Group C Group 1		ICP / CSL: IV Cannulation E.G. Gencer / F.A. Gültekin Group D		Lecture Antimicrobial Agents: Mechanism of Action Güner Söyletir		
15.00- 15.50	Lecture Cancer Genetics and Genomics Didem Seven	Lectu Test of Hypothes E. Çiğden	sis: Chi-Square		Group D			Lecture Antimicrobial Agents: Mechanism of Action Güner Söyletir		
16.00- 16.50	Lecture Hemodynamics <i>Aydın Sav</i>	AFYA for International	Independent Learning for	AFYA for International	Independent Learning for	Group D	SRPC SGS Group E Soner Doğan	Independent Learning		
17.00-17.50	Lecture Hemodynamics Aydın Sav	Students	Turkish Students	Students	Turkish Students			Independent Learning		

# COMMITTEE II - RESPIRATORY SYSTEM V. WEEK / 17 – 21 Nov 2025

	V. WEER/ 17 - 21 NOV 2025							
	Monday 17-Nov-2025		uesday Nov-2025	Wednesday 19-Nov-2025			ay 025	Friday 21-Nov-2025
09.00- 09.50	Lecture Physiology of Deep-Sea Diving and Hyperbaric Conditions Mehtap Kaçar	Laboratory / Physiology Spirometry <i>Mehtap Kaçar &amp; Burcu Gemici Başol</i> Group A		Independent Learning		Laboratory / Microbiology Antibacterial susceptibility testing and interpretation II Pınar Çıragil & Aynur Eren Topkaya & Rabia Can & Selvi Duman Bakırezer Group A	Laboratory / Physiology Exercise and Metabolism Mehtap Kaçar & Burcu Gemici Başol Group C	Independent Learning
10.00- 10.50	Lecture Physiology of Deep-Sea Diving and Hyperbaric Conditions Mehtap Kaçar	Group B	Laboratory / Anatomy Lower Respiratory System Edibe Bilişli Kara & Ahmet Saç Group 2	Laboratory Lecture / Microbiology Güner Söyletir Group A, B, C, D		Group B	Group D	Lecture Injury by Endogenous Substances Aydın Sav
11.00- 11.50	Lecture Antimicrobial Agents: Mechanisms of Resistance Güner Söyletir	Group C	Group 1	Laboratory / Microbiology Antibacterial susceptibility testing and interpretation I Pınar Çıragil & Aynur Eren Topkaya & Rabia Can & Selvi Duman Bakırezer Group C	Laboratory /Histology& Embryology Histology of RS (Trachea, Lung)	Group C	Group A	Lecture Injury by Toxic Substances and Pneumoconiosis Aydın Sav
12.00- 12.50	Lecture Antimicrobial Agents: Mechanisms of Resistance Güner Söyletir	G	roup D	Group D	Alev Cumbul, Aylin Yaba Uçar Group 1	Group D	Group B	Lecture Injury by Toxic Substances and Pneumoconiosis Aydın Sav
13.00- 13.50				Lunch B	reak			
14.00- 14.50	Lecture Treatment of Genetic Disease - Introduction to Gene Therapy Didem Seven	Sports	ecture Physiology ap Kaçar	Group A	Group 2	ICP / CSL: IV Ca H. Candemir Ercan Group	/ R. Sarıyıldız	Lecture Review of the Respiratory System Erdem Söztutar
15.00- 15.50	Lecture Treatment of Genetic Disease - Introduction to Gene Therapy Didem Seven	Sports	ecture Physiology ap Kaçar	Group B	Gloup 2			Lecture Introduction to Pathophysiology of Respiratory System <i>Mehtap Kaçar</i>
16.00- 16.50	Lecture Hemorrhage and Thrombosis Aydın Sav	AFYA for International	Independent Learning	AFYA for International Students	Independent Learning for Turkish	Group E	SRPC SGS Group A Soner Doğan	Lecture Introduction to Pathophysiology of Respiratory System <i>Mehtap Kaçar</i>
17.00- 17.50	Lecture Hemorrhage and Thrombosis <i>Aydın Sav</i>	Students	for Turkish Students		Students			Independent Learning

# COMMITTEE II - RESPIRATORY SYSTEM VI. WEEK / 24 - 28 Nov 2025

	Monday 24-Nov-2025	Tuese 25-Nov	-	Wednesday 26-Nov-2025		Thursday 27-Nov-2025	Friday 28-Nov-2025
09.00- 09.50						Assessment Session (Anatomy, Physiology and Histology&Embryology, MicrobiologyPractical Exams)	
10.00- 10.50	Independent Learning	Independent Learning		Independent Learning Independent Learning		Assessment Session Committee II (MCQ)	Independent Learning
12.00- 12.50						(mod)	
13.00- 13.50			Lunch Break		Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee II Program Secretary of the Committee		
14.00- 14.50		Independen	4 Lograina	Independent Le	anning		
15.00- 15.50		muepenuem	t Learning	maepenaem Le	earning		
16.00- 16.50	Independent Learning					Independent Learning	Independent Learning
17.00- 17.50		AFYA for International Students	Independent Learning for Turkish Students	AFYA for International Students	Independent Learning for Turkish Students		

IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinator

# MED - 203 - COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM

# DISTRIBUTION of LECTURE HOURS December 1, 2025- January 16, 2026 COMMITTEE DURATION: 7 WEEKS

MED 203	DISCIPLINE / COMPONENTS	THEORETICAL	PRACTICAL	SMALL GROUP DISCUSSION	TOTAL
	ANATOMY	21	2GX6H	0	27
	BIOCHEMISTRY	32	1GX1H 4GX1H	0	35
	BIOPHYSICS	10	0	0	10
	BIOSTATISTICS	4	0	0	4
	HISTOLOGY & EMBRYOLOGY	12	2GX6H	0	16
	IMMUNOLOGY	2	0	0	2
	MEDICAL BIOLOGY	4	0	0	4
	MEDICAL MICROBIOLOGY	17	1GX2H 4GX2H	0	22
	PATHOLOGY	6	0	0	6
	PHYSIOLOGY	17	4GX1H	0	18
	SCIENTIFIC RESEARCH and PROJECT-II	0	0	5GX3H	3
	PBL	0	0	6	6
	TOTAL	125	18	9	153
MED 202	INTRODUCTION to CLINICAL PRACTICE- II	5	5GX4H		9
INDEPEN	DENT LEARNING HOURS		104		

	Head	İnci ÖZDEN, PhD Prof.
Coordination Committee	Secretary	Müge KOPUZ ALVAREZ NOVAL, PhD Assist. Prof
Coordination Committee	Member	Mehtap KAÇAR, MD PhD Prof.
	Member	Aikaterini PANTELİ, MD Lecturer

### **COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM**

### **LECTURERS**

MED 203 B	MED 203 BASIC MEDICAL SCIENCES II							
DISCIPLINE	LECTURERS							
ANATOMY	M.Ayberk KURT, MD, PhD. Prof. Erdem SÖZTUTAR, MD Assist. Prof. Paria SHOJAOLSADATI, PhD. Assist. Prof. Ahmet SAÇ, MD, PhD Lecturer LAB: Edibe BİLİŞLİ KARA, PhD. Lecturer							
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof. LAB: Yeşim ÖZARDA, MD, Prof. LAB: Müge KOPUZ ALVAREZ NOVAL, PhD Assist. Prof. LAB: Deniz DEMİRTAŞ, MD							
BIOPHYSICS	Akif MEHERREM, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assoc. Prof.							
BIOSTATISTICS	E. Çiğdem KELEŞ, PhD Assist. Prof.							
LUCTOLOGY & EMPRYOLOGY	Aylin YABA UÇAR, PhD Prof.							
HISTOLOGY & EMBRYOLOGY	Alev CUMBUL, PhD Assoc. Prof.							
IMMUNOLOGY	Latife Arzu ARAL, MD, PhD Prof.							
MEDICAL BIOLOGY	Ayşe ÖZER, PhD Prof. Soner DOĞAN, PhD Prof. Deniz KIRAÇ, PhD Prof. Seda GÜLEÇ YILMAZ, PhD, Prof							
MEDICAL MICROBIOLOGY	Aynur EREN, MD Prof. Güner SÖYLETİR, MD PhD Prof. Pınar ÇIRAGİL, MD Prof. Sibel ERGÜVEN, MD Prof. Rabia CAN, MD Assoc. Prof LAB: Selvi DUMAN BAKIREZER, PhD							
PATHOLOGY	Aydın SAV MD Prof.							
PHYSIOLOGY	Mehtap KAÇAR, MD PhD Prof. Burcu GEMİCİ BAŞOL, PhD. Prof.							
SCIENTIFIC RESEARCH AND PROJECT-II	Aylin YABA UÇAR PhD Prof. (Responsible Faculty Member) Soner DOĞAN, PhD Prof.							

### OTHER COURSES

MED 202 INTRODUCTION TO CLINICAL PRACTICE II					
DISCIPLINE	LECTURERS				
CLINICAL SKILLS LAB	Tümay SADIKOĞLU, MD, Assist. Prof Duygu ALTIPARMAK, MD, Specialist, Instructor E. Güler ÜNVER, Specialist, Instructor				

# COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM AIM and LEARNING OBJECTIVES

### **AIMS**

- 1. To convey information about biophysical, biological, anatomical, embryological, histological, physiological and biochemical properties of gastrointestinal system,
- 2. To convey knowledge on metabolic events in human organism and their clinical reflections.
- 3. To convey information about the structural/biological features and pathogenesis of parasites.
- 4. To convey basic, general knowledge about immunology,
- 5. To convey information about good laboratory and clinical practices in research projects.
- 6. To convey basic knowledge about biostatistics.

#### LEARNING OBJECTIVES

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

#### **KNOWLEDGE**

- 1.0. Describe metabolic events in human organisms, using concepts of internal energy, work, temperature, entropy, free energy and enthalpy.
- 2.0. Describe gastrointestinal system biology,
  - 2.1 to be able to explain communication of major organs at the molecular level
  - 2.2 to be able to define the molecular basis of nutrigenomics
  - 2.3 to be able to explain the molecular basis of colorectal cancer
- 3.0. For oral cavity, temporomandibular joint, chewing muscles, pharynx, esophagus, stomach, small intestine, large intestine, liver, gall bladder and tracts, pancreas, spleen and peritoneum;
  - 3.1. describe the anatomy,
  - 3.2. associate with adjacent tissue and organs,
  - 3.3. explain their functional and clinical reflections.
- 4.0. For abdominal wall, inguinal canal and portal system;
  - 4.1. describe anatomy,
  - 4.2. associate with adjacent tissue and organs,
  - 4.3. explain their functional and clinical reflections.
- 5.0. For digestive system and related glands;
  - 5.1. classify embryological origins and developmental stages Gastrointestinal Tract
  - 5.2. classify embryological origins and developmental stages Gastrointestinal System Glands
  - 5.3. associate the relation between birth abnormalities and developmental process
  - 5.4. explain the histological properties of Upper Gastrointestinal tract
  - 5.5. explain the histological properties of Lower Gastrointestinal tract
  - 5.5. explain the histological properties of gland associated with Gastrointestinal system
- 6.0. For lipid, protein and carbohydrate metabolisms;
  - 6.1. describe physiological mechanisms,
  - 6.2. the relation to each other,
  - 6.3. associate the changes of these relations at fasting and postprandial phase.
- 7.0. In digestive system;
  - 7.1. list exocrine glands secreting acid-neutralizing fluids,
  - 7.2. explain their secretion mechanisms,
  - 7.3. explain hormonal and neural factors.
- 8.0. Classify the roles of enzymes and hormones in digestion and absorption of lipids and proteins.
- 9.0. Explain types and roles of lipoproteins.
- 10.0. Explain metabolisms of fatty acids, cholesterol, ketone bodies.
- 11.0. Explain amino acid metabolisms, synthesis of urea and control mechanism of the synthesis.
- 12.0. Describe the structural/biological features of medically important microorganisms affecting gastrointestinal system.
- 13.0. Describe the properties of mucosal immunity
- 14.0. Describe how to prepare a scientific research presentation.
- 15.0. Prepare a research article presentation
- 16.0. Explain the steps of a statistical hypothesis test according to the properties of a given data count biostatistical sampling methods.
- 17.0. For statistical hypothesis,
  - 17.1. list the statistical hypothesis test according to the properties of given data
  - 17.2. choose the appropriate statistical hypothesis test according to the properties of given data
- 18.0. Explain case scenario related basic medical science topics in a clinical context.
- 19.0. Explain inflammatory processes, termination pathways, effects on tissues and mechanisms for inducing diseases.

# COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM COMMITTEE ASSESSMENT MATRIX

LEADNING OF ICOTIVES	DIGOIDI INF	L FOTURER/INOTRIJOTOR	DISTRIBUTION of MCQs and SbMCQ				
LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	CE	FE	IE	TOTAL	
3.0-4.0	ANATOMY	Dr. E.Söztutar	17	7	7	31	
6.0, 8.0-11.0, 18.0	BIOCHEMISTRY	Dr. İ. Özden	26	12	12	50	
1.0, 18.0	BIOPHYSICS	Dr. A. Meherrem	8	3	3	14	
16.0-17.0	BIOSTATISTICS	Dr. E.Ç. Keleş	3	1	1	5	
5.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	10	5	5	20	
13.0	IMMUNOLOGY	Dr.L. Arzu Aral	1	1	1	3	
2.0	MEDICAL BIOLOGY	Dr. S. Doğan Dr. Ayşe Özer	2	2	2	6	
12.0	MEDICAL MICROBIOLOGY	Dr. Sibel Ergüven Dr. Güner Söyletir Dr. Pınar Çıragil Dr. Rabia Can	14	6	6	25	
19.0	PATHOLOGY	Dr. A. Sav	4	2	2	9	
7.0, 18.0	PHYSIOLOGY	Dr. M. Kaçar Dr. B. Gemici Başol		6	6	26	
18.0	РВ	L	1	0	0	1	
		TOTAL	100	45/200#	45/200#		
	T	DISTRIBUTION	of LAB	ASSESSME	NT POINTS		
LEARNING OBJECTIVES	DISCIPLINE	LPE			QUIZ		
3.0-4.0	ANATOMY	60					
6.0, 8.011.0.	BIOCHEMISTRY	5					
5.0.	HISTOLOGY & EMBRYOLOGY	20					
12.0.	MICROBIOLOGY	4			1		
7.0.	PHYSIOLOGY	10					
	TOTA	L	10	00			

Total number of MCQs are 100, equal to100 pts. Each question has 1 pt.).

Total value of LPE is equal to 100 points

Committee Score (CS) 95% of [90% CE (MCQ) + 10% (LPE)] + 5% of PBL-P

Abbreviations:

MCQ: Multiple Choice Questions LPE: Laboratory Practical Exam

CE: Committee Exam CS: Committee Score FE: Final Exam ICE: Incomplete Exam

Pts.: Points # In FE and ICE, 41 out of 200 FE and ICE MCQs will be from Committee III (Each question is 0.5 pt, equal value.)

# COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM I. WEEK / 01 - 06 Dec 2025

	Monday 01-Dec-2025	Tuesday 02-Dec-2025	Wednesday 03-Dec-2025		rsday ec-2025	Friday 05-Dec-2025	
09.00- 09.50		Lecture Bio-thermodynamics, Laws of Thermodynamics Akif Meherrem	Independent Learning	Laboratory / Histology & Embryology	Independent Learning	Lecture Digestion and Absorption of Lipids <i>Inci Özden</i>	
10.00- 10.50	PBL	Lecture Bio-thermodynamics, Laws of Thermodynamics Akif Meherrem	Lecture Histology of Upper Gastrointestinal Tract; Oral Cavity Alev Cumbul	Histology of GIS I (Tongue, Lip, Esophaus, Stomach) Aylin Yaba Uçar Alev Cumbul Group 2	Laboratory / Anatomy Oral Cavity Edibe Bilişli Kara & Ahmet Saç Group 1	Lecture Digestion and Absorption of Lipids <i>İnci Özden</i>	
11.00- 11.50		Lecture Oral Cavity Erdem Söztutar	Lecture Histology of Alimentary Canal; Tongue, Esophagus Alev Cumbul	Laboratory / Histology & Embryology Histology of GIS I (Tongue, Lip, Esophaus,	Group 2	Lecture Test of Hypothesis: z test for comparing proportions E. Çiğdem Keleş	
12.00- 12.50	Introduction to Committee III Secretary of Committee	Lecture Oral Cavity Erdem Söztutar	Lecture Histology of Alimentary Canal; Stomach Alev Cumbul	Stomach) Aylin Yaba Uçar Alev Cumbul Group1	Independent Learning	Lecture Test of Hypothesis: z test for comparing proportions E. Çiğdem Keleş	
13.00- 13.50			Lunch Br	eak			
14.00- 14.50	Lecture GIT Development Erdem Söztutar	Lecture Anaerobes <i>Pınar Çıragil</i>	Lecture Enterobacterales <i>Güner Söyletir</i>	ICP / CSL: Nasogastric Tube Administration ICP Lecturer Group A		Lecture Esophagus & Stomach <i>Erdem Söztutar</i>	
15.00- 15.50	Lecture GIT Development Erdem Söztutar	Lecture Anaerobes <i>Pınar Çıragil</i>	Lecture Enterobacterales <i>Güner Söyletir</i>			Lecture Esophagus & Stomach Erdem Söztutar	
16.00- 16.50	Lecture Interrelationship of Biology of Major Organs Soner Doğan	AFYA for Independent Learning	AFYA for Independent International Learning	Group A Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver	SRPC SGS Group B Soner Doğan	Independent Learning	
17.00-17.50	Independent Learning	al Students for Turkish Students	Students for Turkish Students			Independent Learning	

# COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM II. WEEK /08 - 12 Dec 2025

	Monday 08-Dec-2025	Tuesd: 09-Dec-2		Wednes 10-Dec-2		Thurso		Friday 12-Dec-2025
09.00- 09.50		Lecture Histology of Alimentary Canal; Small Intestine Aylin Yaba Uçar  Lecture Histology of Alimentary Canal; Large Intestine & Appendix Aylin Yaba Uçar		Histology of Alimentary Canal; Small Intestine Small Intestine Erdem Söztutar  Lecture Histology of Alimentary Canal; Large Intestine & Appendix  Large Intestine & Appendix  Lecture Histology of Alimentary Canal; Large Intestine & Appendix  Lecture Small Intestine		Lectu Gland Associated w System; Saliv Aylin Yab	rith the Digestive ary Glands	Lecture Lipogenesis, Triacylglycerol Synthesis <i>İnci Özden</i>
10.00- 10.50	PBL					PBL Histology of Alimentary C Large Intestine & Appen		Small Intestine
11.00- 11.50		Gastrointestina	Lecture Gastrointestinal Functions Burcu Gemici Başol  Lecture Test of Hypothesis: t-tests (one sample) E. Çiğdem Keleş		s: t-tests (one e)	Laboratory / Anatomy Stomach & Duodenum <i>Edibe Bilişli Kara &amp; Ahmet Saç</i> Group 2		Lecture The Theory and First Laws of Thermodynamics. Energy Transformation Akif Meherrem
12.00- 12.50	Independent Learning	Gastrointestina	Lecture testinal Functions u Gemici Başol  Lecture Test of Hypothesis: t-tests (one sample) E. Çiğdem Keleş		Group 1		Lecture The Theory and First Laws of Thermodynamics. Energy Transformation Akif Meherrem	
13.00- 13.50					Lunch Breal	κ		
14.00- 14.50	Lecture Transport of Lipids in Plasma İnci Özden	Lectur Duoden <i>Erdem Sö</i>	ium	Lecture Cholesterol Metabolism <i>İnci Özden</i>		ICP / CSL: Naso Administ ICP Lec Group	ration <i>turer</i>	Lecture Nonfermenters <i>Güner Söyletir</i>
15.00- 15.50	Lecture Transport of Lipids in Plasma İnci Özden	Lectui Duoden <i>Erdem Sö</i>	ium	Lecture Cholesterol Metabolism <i>Inci Özden</i>				Lecture Gram (-) curved bacilli <i>Güner Söyletir</i>
16.00- 16.50	Independent Learning	AFYA for International Students	Independent Learning for Turkish	AFYA for International Students	Independent Learning for Turkish	Group B Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver	SRPC SGS Group C Soner Doğan	Independent Learning
17.00-17.50	Independent Learning	Students	Students	Students	Students			Independent Learning

# COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM III. WEEK / 15 - 19 Dec 2025

	Т			1 111 111111								
	Monday 15-Dec-2025	Tues 16-Dec			nesday cc-2025		sday c-2025	Friday 19-Dec-2025				
9.00- 09.50	Lecture Inflammation Aydın Sav	Lecture Enteroviruses <i>Rabia Can</i>		Enteroviruses Ketone Bodies		Ketone Bodies		Ketone Bodies Digestion and Absorption		Lecture Metabolisms of Individual Amino Acids <i>İnci Özden</i>		
10.00- 10.50	Lecture Wound Healing <i>Aydın Sav</i>	Lecture Viruses of diarrhea Rabia Can		Lecture Ketone Bodies İnci Özden		Viruses of diarrhea Ketone Bodies		Lecture Digestion and Absorption of Proteins Inci Özden		Digestion and Absorption of Proteins		Lecture Metabolisms of Individual Amino Acids <i>Inci Özden</i>
11:00-11:50	Lecture Propulsion and Mixing Movements in the GI Tract Burcu Gemici Başol	Lecture Oxidation of Fatty Acids <i>Inci Özden</i>		Lecture Secretory Functions of the Alimentary Tract Burcu Gemici Başol				Laboratory / Anatomy Small and Large Intestine Edibe Bilişli Kara & Ahmet Saç Group 1				
12:00-12:50	Lecture Propulsion and Mixing Movements in the GI Tract Burcu Gemici Başol	Lect Oxidation of <i>Inci C</i>	f Fatty Acids	Lecture Secretory Functions of the Alimentary Tract Burcu Gemici Başol		Lecture Large Intestine Erdem Söztutar		Group 2				
13.00- 13.50					Lunch Break							
14.00- 14.50	Lecture Lipolysis İnci Özden	Lect Energetics and <i>Mehtap</i>	Metabolic Rate	Gland Associated witl Pan	Lecture and Associated with the Digestive System; Pancreas Aylin Yaba Uçar  ICP / CSL: Nasogastric Tube Administration ICP Lecturer Group C		stration ecturer	Lecture Development of Gastrointestinal Tract; Alimentary Canal Alev Cumbul				
15.00- 15.50	Lecture Lipolysis <i>İnci Özden</i>	Lect Energetics and <i>Mehtar</i>	Metabolic Rate	Lecture Gland Associated with the Digestive System; APUD Aylin Yaba Uçar		Gland Associated with the Digestive System; APUD		Group C	SRPC SGS	Lecture Development of Gastrointestinal Tract; Glands Alev Cumbul		
16.00- 16.50	Lecture Nutrigenomics Soner Doğan	AFYA for International	Independent Learning	AFYA for	Independent Learning	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver	Group D Soner Doğan	Lecture Liver as Organ <i>Mehtap Kaçar</i>				
17.00-17.50	Lecture Nutrigenomics Soner Doğan	Students	for Turkish Students	International Students	for Turkish Students			Independent Learning				

# COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM IV. WEEK / 22 - 26 Dec 2025

		IV. WEER/ 22 - 20 Dec 2025							
	Monday 22-Dec-2025		uesday Dec-2025		nesday oc-2025	Thurs 25-Dec			Friday Dec-2025
09.00- 09.50	Lecture Digestion and Absorption in the Gastrointestinal Tract Burcu Gemici Başol	Lecture Regulation of Feeding and Obesity <i>Burcu Gemici Başol</i>		Body Temperature	cture e and Its Regulation p <i>Kaçar</i>	Lecture Citric Acid Cycle <i>İnci Özden</i>		Lecture Purine and Pyrimidine Metabolism <i>İnci Özden</i>	
10.00- 10.50	Lecture Digestion and Absorption in the Gastrointestinal Tract Burcu Gemici Başol	Lecture Regulation of Feeding and Obesity Burcu Gemici Başol		Regulation of Feeding and Obesity Body Temperature and Its Regulation The Pancreas and Spleen		Lecture Purine and Pyrimidine Metabolism <i>Inci Özden</i>			
11.00- 11.50	Lecture Urea Cycle <i>İnci Özden</i>	Lecture Metabolic Interrelationships and Provision of Tissue Fuels Inci Özden		Applications of the Firs	cture st Law to Isothermal and Processes eherrem	Lecture The Second Law of Thermodynamics Akif Meherrem		Physiology of Ga	Lecture astrointestinal Disorders htap Kaçar
12.00- 12.50	Lecture Urea Cycle <i>İnci Özden</i>	Lecture Metabolic Interrelationships and Provision of Tissue Fuels <i>Inci Özden</i>		Lecture Applications of the First Law to Isothermal and Ideobatic Processes Akif Meherrem		Lecture Entropy and Free Energy Distribution in Bio-molecular Systems Akif Meherrem		Lecture Physiology of Gastrointestinal Disorders <i>Mehtap Kaçar</i>	
13.00- 13.50				Lunch Break					
14.00- 14.50	Lecture Hepatitis viruses <i>Güner Söyletir</i>		Lecture Liver em Söztutar	Laboratory / Anatomy Liver and Biliary System <i>Edibe Bilişli Kara &amp; Ahmet Saç</i> Group 2		ICP / CSL: Nasogastric Tube Administration ICP Lecturer Group D		Laboratory / Histology & Embryology Gland Associated	Independent Learning
15.00- 15.50	Lecture Hepatitis viruses <i>Güner Söyletir</i>	Bilia	Lecture ary System m Söztutar	Group 1		Group D	0000	with the Digestive System; Gall Bladder Aylin Yaba Uçar Alev Cumbul Group 2	Laboratory / Anatomy The Pancreas and Spleen Edibe Bilişli Kara & Ahmet Saç Group 1
16.00- 16.50	Lecture Applications of the First Law to Isochoric, Isobaric Processes, Enthalpy Akif Meherrem	AFYA for International	Independent Learning	AFYA for	Independent Learning	Dr. Tümay Sadıkoğlu / Dr. Duygu Altıparmak/ Dr. Güler Ünver	SRPC SGS Group E Soner Doğan	Laboratory / Histology & Gland Associated with the Digestive System;	Group 2
17.00-17.50	Lecture Applications of the First Law to Isochoric, Isobaric Processes, Enthalpy Akif Meherrem	Students	for Turkish Students	International Students	for Turkish Students			Gall Bladder  Aylin Yaba Uçar  Alev Cumbul  Group1	Independent Learning

# COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM V.WEEK / 29 Dec 2025 – 02 Jan 2026

	Monday 29-Dec-2025	Tueso 30-Dec		Wednesday 31-Dec-2025	Thursday 01-Jan-2026	Friday 02-Jan-2026	
09.00- 09.50	Lecture Gastrointestinal and urogenital protozoa Sibel Ergüven	Lecture Cestods Sibel Ergüven		Lecture Nematodes Sibel Ergüven		Independent Learning	
10.00- 10.50	Lecture Gastrointestinal and urogenital protozoa Sibel Ergüven	Lectu Tremat Sibel En	odes	Lecture Nematodes Sibel Ergüven	NEW YEAR	Progress Test (ONLINE)	
11:00-11:50	Lecture Acute Inflammation <i>Aydın Sav</i>	Lectu Medical Ent Sibel En	tomology	Laboratory / Microbiology Laboratory Methods in		(ONLINE)	
12:00-12:50	Lecture Acute Inflammation Aydın Sav	Lectu Congenital ar Gastrointesi <i>Alev Cu</i>	nomalies of tinal Tract	Parasitology <u>Sibel Ergüven</u> Group A, B, C, D		Independent Learning	
13.00- 13.50				Lunc			
14.00- 14.50	Lecture Peritoneal and Abdominal Cavity <i>Erdem</i> Söztutar	kenobiotic Metabolism Independent		Independent Learning		Progress Test	
15.00- 15.50	Lecture Abdominal Wall Topographic Anatomy <i>Erdem Söztutar</i>	Lecture Xenobiotic Metabolism <i>İnci Özden</i>		Independent Learning	NEW YEAR	(ONLINE)	
16.00- 16.50	Lecture Molecular Basis of Colorectal Cancer Ayşe Özer	AFYA for International	Independent Learning	Independent Learning		Independent Learning	
17.00-17.50	Independent Learning	Students	for Turkish Students	Independent Learning		Independent Learning	

# COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM VI. WEEK / 05 – 09 Jan 2026

	711 11 11 12 20 00 00 11 10 10 10 10 10 10 10 10 10 10								
	Monday 05-Jan-2026		esday an-2026		Wednesday 07-Jan-2026		Thursday 08-Jan-2026		
09.00- 09.50	Lecture Nerves and Vessels of the GIT Erdem Söztutar	Overview o	cture of Metabolism Özden	Lecture Overview of Metabolism <i>İnci Özden</i>		Laboratory / Histology &	Independent Learning	Lecture Chronic Inflammation Aydın Sav	
10.00- 10.50	Lecture Nerves and Vessels of the GIT <i>Erdem</i> Söztutar	ldentification o and nonfer Güner Söyletir Aynur Eren Topkaya & Rabi	/ Microbiology of Gram (-) enteric menter bacilli & Pinar Çiragil & a Can & Selvi Duman Bakırezer s A,B,C,D	Laboratory Lecture Lipid Determination in Blood Yeşim Özarda & Müge Kopuz Alvarez Noval & Deniz Demirtaş Group A, B, C, D		Embryology Histology of GIS II (Jejunum, Colon, Salivary GI, Liver) Aylin Yaba Uçar Alev Cumbul Group 1	Laboratory / Anatomy Abdominal Cavity, Peritoneum, Nerves and Vessels Edibe Bilişli Kara & Ahmet Saç Group 2	Lecture Chronic Inflammation Aydın Sav	
11:00-11:50	Lecture Overview of Metabolism <i>İnci Özden</i>	Laboratory / Physiology Digestive System <i>Mehtap Kaçar &amp;</i> <i>Burcu Gemici Başol</i> Group A	Laboratory / Microbiology Identification of Gram (-) enteric and nonfermenter bacilli- I Güner Söyletir & Pınar Çıragil & Aynur Eren Topkaya & & Rabia Can Selvi Duman Bakırezer Group D	Laboratory / Microbiology Identification of Gram (-) enteric and nonfermenter bacilli - Il Güner Söyletir & Pınar Çıragil & Aynur Eren Topkaya & Rabia Can & Selvi Duman Bakırezer Group B	Laboratory / Biochemistry Lipid Determination in Blood Yeşim Özarda & Müge Kopuz Alvarez Noval & Deniz Demirtaş Group C	Laboratory / Histology & Embryology Histology of GIS II (Jejunum, Colon, Salivary GI, Liver) Aylin Yaba Uçar	Group 1	Lecture Review of the Digestive System Erdem Söztutar	
12:00-12:50	Lecture Overview of Metabolism İnci Özden	Group B	Group C	Group A	Group D	Alev Cumbul Group 2	Independent Learning	Lecture Review of the Digestive System Erdem Söztutar	
13.00- 13.50				Lunch Break					
14.00- 14.50	Lecture Mucosal Immunity L. Arzu Aral	Group D Group A		Group C	Group B	ICP L	ic Tube Administration ecturer up E	Independent Learning	
15.00- 15.50	Lecture Mucosal Immunity <i>L. Arzu Aral</i>	Group C	Group B	Group D Group A		Group E Dr. Tümay Sadıkoğlu	SRPC SGS	Independent Learning	
16.00- 16.50	Independent Learning	AFYA for International Students Independent Learning for Turkish Students		AFYA for International Students	Independent Learning for Turkish Students	/ Dr. Duygu Altıparmak/ Dr. Güler Ünver	Group A Soner Doğan	Introduction to Elective Courses ONLINE	
17.00-17.50	Independent Learning	andont Lorming CCL Clinia			oiono will bo onno	mand by an audinote			

# COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM VII. WEEK / 12 – 16 Jan 2026

	Monday 12-Jan-2026	Tues 13-Jar			nesday n-2026	Thursday 15-Jan-2026	Friday 16-Jan-2026	
09.00- 09.50						Assessment Session (Anatomy, Physiology, Biochemistry, Microbiology and Histology & Embryology Practical Exams)		
10.00- 10.50	Independent Learning	Independer	nt Learning	Independe	nt Learning		Independent Learning	
11.00- 11.50						Assessment Session Committee III (MCQ)		
12.00- 12.50						(4)		
13.00- 13.50	Lunch Break				Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee III Program Secretary of the Committee	Lunch Break		
14.00- 14.50								
15.00- 15.50		Independer	nt Learning	Independe	nt Learning			
16.00- 16.50	Independent Learning	AFVA 6	Independent	AFVA ( Independent		Independent Learning	Independent Learning	
17.00-17.50		AFYA for International Students	Learning for Turkish Students	AFYA for International Students	Learning for Turkish Students			

MIDTERM BREAK: JANUARY 19 – 30, 2026

# MED - 203 - COMMITTEE IV - NERVOUS SYSTEM DISTRIBUTION of LECTURE HOURS FEBRUARY 2 - MARCH 27, 2026 COMMITTEE DURATION: 8 WEEKS

COURSES	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	SMALL GROUP DISCUSSION	TOTAL
	DISCIPLINE				
	ANATOMY	42	2GX14H	0	56
	BIOPHYSICS	3	0	0	3
	BIOSTATISTICS	4	0	0	4
	HISTOLOGY & EMBRYOLOGY	13	2GX2 H	0	15
	IMMUNOLOGY	2	0	0	2
MED 203	MEDICAL BIOLOGY	2	0	0	2
	PHARMACOLOGY	9	2GX1 H	0	10
	PHYSIOLOGY	34	4GX6 H	0	40
	SCIENTIFIC RESEARCH and PROJECT-II	0	0	5GX3H	3
	PBL	0	0	6	6
	TOTAL	109	23	9	141
MED 202	INTRODUCTION to CLINICAL PRACTICE- II	7	5GX3H	0	23
MED 614-631	ELECTIVE COURSES	14	0	0	14

PENDENT LEARNING HOURS	146
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	Head	Erdem SÖZTUTAR, MD PhD	
Coordination Committee	Secretary	Burçin Tuvana Us, MD PhD	
	Member	Mehtap KAÇAR, MD PhD Prof.	
	Member	Alev CUMBUL, PhD Assoc. Prof.	

# COMMITTEE IV- NERVOUS SYSTEM LECTURERS

	MED 203 BASIC MEDICAL SCIENCES II
DISCIPLINE	LECTURERS
ANATOMY	M.Ayberk KURT, MD, PhD. Prof. Erdem SÖZTUTAR MD Assist. Prof. LAB: Edibe BİLİŞLİ KARA, PhD. Lecturer LAB: Ahmet SAÇ, MD, PhD Lecturer
BIOPHYSICS	Akif MEHERREM, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assoc.Prof.
BIOSTATISTICS	Çiğdem KELEŞ, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR PhD Prof. Alev CUMBUL, PhD Assoc. Prof.
IMMUNOLOGY	Latife Arzu ARAL, MD PhD Prof.
MEDICAL BIOLOGY	Ayşe ÖZER, PhD Prof. Soner DOĞAN, PhD Prof. Deniz KIRAÇ, PhD Prof. Seda GÜLEÇ YILMAZ, PhD Prof.
PHARMACOLOGY	Ece GENÇ, PhD Prof. Emine Nur ÖZDAMAR, MD Assist. Prof. Cenk Andaç, PhD Assist. Prof.
PHYSIOLOGY	Mehtap KAÇAR, MD PhD Prof. Burcu GEMICİ BAŞOL, PhD Prof. Cihan Süleyman Erdoğan, PhD Assist. Prof.
SCIENTIFIC RESEARCH AND PROJECT COURSE-II	Aylin YABA UÇAR PhD Prof. (SRP Coordinator) Soner DOĞAN, PhD Prof.

### OTHER COURSES

MED 202 INTRODUCTION TO CLINICAL PRACTICE II							
DISCIPLINE	LECTURERS						
CLINICAL SKILLS LAB	Ezgi AYTAÇ, MD, Assist. Prof						

# COMMITTEE IV - NERVOUS SYSTEM AIM and LEARNING OBJECTIVES

#### **AIMS**

- 1. To convey basic knowledge on biophysical, biological, anatomical, embryological, histological, physiological and biochemical properties of nervous system,
- 2. To convey knowledge on histology and development of central and peripheral nervous system and special senses,
- 3. To convey knowledge on biological basics of vision, hearing and taste,
- 4. To convey development mechanisms of inflammatory processes,
- 5. To convey general knowledge about neuroimmunology,
- 6. To convey basic knowledge about pharmacology,
- 7. To convey knowledge about the drugs effecting nervous system,
- 8. To convey information about good laboratory and clinical practices in research projects.
- 9. To convey basic knowledge about biostatistics.

### **LEARNING OBJECTIVES**

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

### **KNOWLEDGE**

- 1.0. Describe biophysical basis of nervous system.
- 2.0. Describe biology of nervous system.
- 3.0. In nervous system;
  - 3.1. describe the anatomy of cerebrum, cerebellum, meninges, brain stem, cranial nerves and spinal cord.
  - 3.2. describe limbic and autonomic nervous system, describe the anatomy of structures forming eyes and ears.
  - 3.3. describe the anatomy of skin and its derivatives and the mammary glands
  - 3.4. describe descending and ascending pathways,
  - 3.5. associate with adjacent tissue and organs,
  - 3.6. explain functional and clinical reflections.
- 4.0. For central and peripheral nervous system and special senses,
  - 4.1. classify embryological origins and developmental stages Nervous System
  - 4.2. classify embryological origins and developmental stages Eye and Ear
  - 4.3. classify embryological origins and developmental stages Skin
  - 4.4. explain of the histological properties Nervous System
  - 4.5. explain of the histological properties Eye and Ear
  - 4.6. describe histological properties of Skin
- 5.0. Explain nervous conduction, ion channels and intracellular, extracellular ion concentration differences.
- 6.0. Describe neuron, neuroglia, neurotransmitters and nerve fibers.
- 7.0. Explain the synthesis and inactivation of neurotransmitters.
- 8.0. Describe the energy mechanisms of brain.
- 9.0. In the nervous system;
  - 9.1. explain parts and functions of brain cortex,
  - 9.2. describe sensorial transmission pathways and special senses,
  - 9.3. describe control of motor function (cortex, cerebellum, basal ganglions and brain stem)
  - 9.4. describe functions of hypothalamus.
- 10.0. Explain the relationship of learning-memory with hippocampus.
- 11.0. For brain waves and reflexes;
  - 11.1. describe,
  - 11.2. explain how they are measured in clinics.
- 12.0. Explain biochemical basics of vision, hearing and taste senses
- 13.0. In drug metabolism;
  - 13.1. explain mechanisms and factors affecting absorption, explain mechanisms and factors affecting distribution,
  - 13.2. explain mechanisms and factors affecting excretion.
- 14.0. For drug pharmacokinetics;
  - 14.1. explain clinical importance,
  - 14.2. analyze examples.
- 15.0. Describe the properties of neuroimmunology
- 16.0. Describe how to prepare a scientific research presentation
- 17.0. Prepare a research article presentation
- 18.0. Explain the steps of a statistical hypothesis test according to the properties of a given data.
- 19.0. For statistical hypothesis,
  - 19.1. list the statistical hypothesis test according to the properties of given data
  - 19.2. choose the appropriate statistical hypothesis test according to the properties of given data.
- 20.0. Explain case scenario related basic medical science topics in a clinical context.

### **COMMITTEE IV - NERVOUS SYSTEM COMMITTEE ASSESSMENT MATRIX**

LEARNING OBJECTIVES	DISCIP	U INE	LECTURER/ INSTRUCTOR	DISTRIBUTION of MCQs and SbMCQ					
OBJECTIVES	DISCIP	LINE		CE	FE	IE	TOTAL		
3.0, 20.0	ANATOMY		Dr. M. A. Kurt Dr. E. Söztutar	38	15	15	68		
1.0	BIOPHYSICS		Dr. B. Güvenç Tuna	3	1	1	5		
18.0-19.0	BIOSTATISTICS		Dr. E.Ç. Keleş	4	2	2	8		
4.0, 20.0	HISTOLOGY &		Dr. A. Yaba Uçar	40	_	_	00		
	EMBRYOLOGY		Dr. A. Cumbul	12	5	5	22		
15.0	IMMUNOLOGY		Dr.L. Arzu Aral	2	1	1	4		
2.0	MEDICAL BIOLOG	SY	Dr. S. Güleç Yılmaz	2	1	1	4		
13.0-14.0		,	Dr. E. Genç						
	PHARMACOLOGY		Dr. Emine Nur Özdamar	- 8	3	3	14		
			Dr. M. Kaçar						
5.0-12.0,20.0	PHYSIOLOGY		Dr. B. Gemici Başol	30	12	12	54		
			Dr. Cihan S. Erdoğan						
20.0	PBL			1	0	0	1		
			TOTAL	100	40/200°	40/200°			
					•				
I FARNING OF	D IECTIVES	DISCI	DI INC	POIN	TS of ASSES	SMENT ME	THODS		
LEARNING OF	BJECTIVE 5	DISCI	PLINE		LPE				
3.0.		ANATOMY			60				
4.0.		HISTOLOGY &	EMBRYOLOGY		10				
13.0-14.0		PHARMACOLO	GY		5				
5.0-12.0.		PHYSIOLOGY			25				
			TOTAL		100				

Total value of LPE is equal to 100 points

Committee Score (CS) = 95% of [90% CE (MCQ and SbMCQ) + 10% (LPE)] + 5% of PBL-P

Abbreviations:

MCQ: Multiple Choice Questions

LPE: Laboratory Practical Exam

CE: Committee Exam

CS: Committee Score

FE: Final Exam

ICE: Incomplete Exam

Pts.: Points#

In FE and ICE, 41 out of 200 FE and ICE MCQs will be from Committee IV (Each question is 0.5 Pts., equal value.

# COMMITTEE IV- NERVOUS SYSTEM I. WEEK / 2-6 February 2026

	Monday 2-Feb-2026		sday o-2026		Vednesday -Feb-2026	Thursday 5-Feb-2026		day 2026
09.00-09.50	Independent Learning	Independe	nt Learning	Passage N	Lecture Pharmacology and e of Drugs Across lembranes Ece Genç	Lecture Cranial Nerves <i>M. Ayberk Kurt</i>	Mehtaj	ture ors and Pathways o Kaçar ana Us
10.00-10.50	Independent Learning	Introdu Neuroa	eture action to anatomy perk Kurt		Lecture Brainstem <i>Ayberk Kurt</i>	Lecture Cranial Nerves <i>M. Ayberk Kurt</i>	Lecture Peripheral Nervous System Mehtap Kaçar B. Tuvana Us	
11.00-11.50	Program Improvement Sessions	Spina	Lecture Spinal Cord <i>M. Ayberk Kurt</i>		Lecture Brainstem <i>Ayberk Kurt</i>	Lecture Cranial Nerves <i>M. Ayberk Kurt</i>	Laboratory Cranial <i>M. Ayberk Kurt &amp; Edibe</i> Gro	Nerves Bilişli Kara & Ahmet Saç
12.00-12.50	Introduction to Committee IV Secretary of Committee	Lecture Spinal Cord M. Ayberk Kurt		Lecture Brainstem M. Ayberk Kurt		Lecture Cranial Nerves <i>M. Ayberk Kurt</i>	Group 2	
13.00-13.50					Lunch B	reak		
14.00-14.50		Organization Sys	cture n of Nervous stem p Kaçar	Laboratory/ Anatomy Spinal Cord <i>Aikaterini Panteli &amp; Edibe Bilişli Kara</i> & <i>Ahmet Sa</i> ç Group 1		Lecture Synapse and Neurotransmitters <i>Burcu Gemici Başol</i>	Elective Courses Week I	Independent Learning
15.00-15.50	PBL	Neuron an	cture d Neuroglia p Kaçar		Group 2	Lecture Synapse and Neurotransmitters Burcu Gemici Başol		
16.00-16.50		AFYA for International Students	Independent Learning for Turkish Students	AFYA for International Students	Independent Learning for Turkish Students	Laboratory / Anatomy Brain stem <i>M. Ayberk Kurt &amp; Edibe Bilişli Kara &amp; Ahmet</i> Saç Group 2	Independent Learning	Elective Courses Week I
17.00-17.50	Independent Learning					Group 1		

# COMMITTEE IV- NERVOUS SYSTEM II. WEEK / 9-13 February 2026

	Monday 9-Feb-2026		esday eb-2026	Wedn 11-Fek	esday o-2026	Thursday 12-Feb-2026	Frid 13-Feb	ay -2026		
09.00-09.50		Cere	cture bellum berk Kurt							
10.00-10.50	PBL		re bellum berk Kurt	ICP Review Lab						
11.00-11.50		Physiolo	cture ogy of Pain ap Kaçar			MIDTERM OSCE EXAM	MIDTERM O	SCE EXAM		
12.00-12.50	Independent Learning	Physiolo	Lecture Physiology of Pain <i>Mehtap Kaçar</i>							
13.00-13.50	0 Lunch Break									
14.00-14.50	Lecture Diencephalon <i>M. Ayberk Kurt</i>	Cutaneo <i>Meht</i> a	cture ous Senses ap Kaçar vana Us	M. Ayberk Kurt & E Ahme	r / Anatomy d Diencephalon Edibe Bilişli Kara & et Saç up 2			Independent Learning		
15.00-15.50	Lecture Diencephalon <i>M. Ayberk Kurt</i>	Cutaneo <i>Meht</i> a	cture ous Senses ap Kaçar vana Us	Gro	up 1	MIDTERM OSCE EXAM	Elective Courses Week II			
16.00-16.50	Lecture Diencephalon M. Ayberk Kurt	AFYA for	Independent	AFYA for	Independent			Elective Courses Week II		
17.00-17.50	Independent Learning	International Students	Learning for Turkish Students	International Students	Learning for Turkish Students		Independent Learning			

# COMMITTEE IV- NERVOUS SYSTEM III. WEEK / 16-20 February 2026

	Monday 16-Feb-2026	Tuesday 17-Feb-2026	Wednesday 18-Feb-2026	Thursday 19-Feb-2026	Friday 20-Feb-2026	
09.00-09.50	Lecture Motor Functions of Spinal Cord Mehtap Kaçar B. Tuvana Us	Lecture Dopamine and Drugs Affecting Dopaminergic System Emine Nur Özdamar	Laboratory / Anatomy Telencephalon <i>M. Ayberk Kurt &amp; Edibe Bilişli Kara &amp; Ahmet</i> Saç Group 1	Lecture Meninges and Dural Venous Sinuses M. Ayberk Kurt	Laboratory / Anatomy Limbic system <i>M. Ayberk Kurt &amp; Edibe Bilişli Kara &amp;</i> <i>Ahmet Saç</i> Group 2	
10.00-10.50	Lecture Motor Functions of Spinal Cord Mehtap Kaçar B. Tuvana Us	Lecture Telencephalon <i>M. Ayberk Kurt</i>	Group 2	Lecture Meninges and Dural Venous Sinuses <i>M. Ayberk Kurt</i>	Group 1	
11.00-11.50	Lecture Basal Ganglia <i>M. Ayberk Kurt</i>	Lecture Telencephalon <i>M. Ayberk Kurt</i>	Lecture Limbic System <i>M. Ayberk Kurt</i>	Lecture States of Brain Activity- Sleep and Brain Waves Mehtap Kaçar	Lecture Test Hypotheses and Significance- Z-Test Çiğdem Keleş	
12.00-12.50	Lecture Basal Ganglia <i>M. Ayberk Kurt</i>	Lecture Telencephalon <i>M. Ayberk Kurt</i>	Lecture Limbic System <i>M. Ayberk Kurt</i>	Lecture States of Brain Activity- Sleep and Brain Waves Mehtap Kaçar	Lecture Test Hypotheses and Significance- Z-Test Çiğdem Keleş	
13.00-13:50			Lunch Break			
14.00-14.50	Lecture Histology of CNS; PNS, Meninges, and Spinal Cord Aylin Yaba Uçar	Lecture Cortical and Brainstem Control of Motor Function Mehtap Kaçar B. Tuvana Us	Lecture Functions of Cerebellum and Basal Ganglia in Motor Control Cihan Süleyman Erdoğan	ICP / CSL: Intraarterial Blood Sampling ICP Lecturer Group A	Elective Courses Independent Learning	
15.00-15.50	Lecture Histology of CNS; PNS, Meninges, and Spinal Cord <i>Aylin Yaba Uçar</i>	Lecture Cortical and Brainstem Control of Motor Function Mehtap Kaçar B. Tuvana Us	Lecture Functions of Cerebellum and Basal Ganglia in Motor Control Cihan Süleyman Erdoğan		Week III	
16.00-16.50	Laboratory / Anatomy Basal Ganglia <i>M. Ayberk Kurt &amp; Edibe Bilişli Kara &amp;</i> <i>Ahmet Saç</i> Group 1	AFYA for AFYA for International Students Turkish	AFYA for International Students  Independe nt Learning for Turkish	Group A E.Aytaç SRPC SGS Group C Soner Doğan	Independent Elective Courses Week III	
17.00-17.50	Group 2	Students	Students			

# COMMITEE IV- NERVOUS SYSTEM IV. WEEK / 23 - 27 February 2026

	IV. WEEK / 23 - 27 February 2026											
		onday eb-2026	Tueso 24-Feb		Wednes 25-Feb-2		Thurs 26-Feb		Friday 27-Feb-2026			
09.00-09.50		y / Physiology roencephalography	Lecture  Development of Central Nervous System; Early Stages Aylin Yaba Uçar  Lecture Vasculature of the CNS M. Ayberk Kurt		Lecture Cerebral Cortex, Intellectual Functions of the Brain Cihan Süleyman Erdoğan		Congenital Anomalies of	Lecture Congenital Anomalies of Nervous System Aylin Yaba Uçar				
10.00-10.50	Mehtap Kaçar & Burcu G. Başol Group D		Lecture Development of Central Nervous System; Late Stages <i>Aylin Yaba Uçar</i>		Lectui Vasculature o <i>M. Ayberl</i>	f the CNS	Lectu Learning a Cihan Süleyn	nd Memory	Lecture Histology of Sensory Organs; Ear Alev Cumbul			
11.00-11.50	Laboratory / Physiology Reflexes- Electroencephalography		Drug Distr	Lecture Drug Distribution Ece Genç  Lecture Histology of Sensory Organs; Eye; Fibrous and Vascular Coat Alev Cumbul  Laboratory / Anatomy Vasculature of CNS M. Ayberk Kurt & Edibe Bilişli Kara & Ahmet Saç Group 1		Lecture Histology of Sensory Organs; Ear Alev Cumbul						
12.00-12.50	Mehtap Kaçar & Burcu G. Başol Group C  Laboratory / Anatomy Meninges and Dural Venous Sinuses M. Ayberk Kurt & Edibe Bilişli Kara & Ahmet Saç Group 1		Lecture Drug Distribution Ece Genç		Lecture Histology of Sensory Organs; Eye; Nervous Coat and Appendix Alev Cumbul		Group 2		Lecture Serotonin and Drugs Effecting seratonergic System Emine Nur Özdamar			
13.00-13:50				Lunch Break								
14.00-14.50	Laboratory / Physiology Reflexes- Electroencephalography Mehtap Kaçar & Burcu G. Basol	Laboratory / Anatomy Meninges and Dural Venous Sinuses M. Ayberk Kurt & Edibe Bilişli Kara & Ahmet Saç Group 2	Drug Meta	Lecture Drug Metabolism Ece Genç		Lecture Drug Excretion Ece Genç		ICP / CSL: Intraarterial Blood Sampling ICP Lecturer Group B		Independent Learning		
15.00-15.50	Group B	Independent Learning	Independent	t Learning	Lectur Drug Excr Ece Ge	retion						
16.00-16.50	Laboratory / Physiology Reflexes- Electroencephalography <i>Mehtap Kaçar &amp; Burcu G. Basol</i>		AFYA for International Students	Independent Learning for Turkish	AFYA for International Students	Independent Learning for Turkish	Group B E.Aytaç	SRPC SGS Group D Soner Doğan	Independent Learning	Elective Courses Week IV		
17.00-17.50		oup A		Students		Students				WEEKIV		

### COMMITTEE IV - NERVOUS SYSTEM V. WEEK / 2-6 March 2026

			*** *********	E O Maion 2020		-				
	Monday 2-Mar-2026		esday ar-2026		nesday r-2026	Thurs 5-Mar-		Frid: 6-Mar-		
09.00-09.50	Independent Learning	Development of S	cture Sensory Organs: Eye Cumbul	Eye and Vis Erdem Söztutar & Ahm	y / Anatomy ual Pathways Edibe Bilişli Kara & et Saç oup 2	Lectur Drug applicatio pharmaceutical f Emine Nur	on routes and orms of drugs	Lecture Ascending Pathways of the CNS M. Ayberk Kurt		
10.00-10.50	Lecture Eye and Orbit Erdem Söztutar	Development of S	cture Sensory Organs; Ear <u>Cumbul</u>	Group 1		Lectu Ea <i>Erdem</i> S	r	Lecture Descending Pathways of the CNS M. Ayberk Kurt		
11.00-11.50	Lecture Eye and Orbit <i>Erdem Söztutar</i>	Physiolog	cture gy of Vision ap Kaçar	Chemical Senses	cture s: Taste and Smell omici Başol	Lecture Ear Erdem Söztutar		Laboratory / Anatomy Ear and Auditory Pathways <i>Erdem Söztutar &amp; Edibe Bilişli Kara &amp;</i> <i>Ahmet Saç</i> Group 2		
12.00-12.50	Lecture Eye and Orbit Erdem Söztutar	Physiolog	cture gy of Vision ap Kaçar	Lecture Chemical Senses: Taste and Smell Burcu Gemici Başol		Lecture Auditory Pathways Erdem Söztutar		Group 1		
13.00-13.50				Lunch Break						
14.00-14.50	Lecture Physiology of Vision <i>Mehtap Kaçar</i>	Taste and S	cture mell Pathways Söztutar	Limbic System and	cture d the Hypothalamus man Erdoğan	ICP / CSL: Intra Samp ICP Lec Grou	ling turer	Elective Courses Week V	Independent Learning	
15.00-15.50	Lecture Physiology of Vision <i>Mehtap Kaçar</i>	Taste and S	cture mell Pathways Söztutar	Limbic System and	cture d the Hypothalamus man Erdoğan					
16.00-16.50	Lecture Electrical Activity of Cortex and Evoked Potentials. Neural Coding Bilge Güvenç Tuna	AFYA for		AFYA for	Independent	Group C	SRPC SGS			
17.00-17.50	Lecture Electrical Activity of Cortex and Evoked Potentials. Neural Coding Bilge Güvenç Tuna	International Students	Independent Learning for Turkish Students	International Students	Learning for Turkish Students	E.Aytaç	Group E Soner Doğan	Independent Learning	Elective Courses Week V	

# COMMITTEE IV- NERVOUS SYSTEM VI.WEEK / 09-14 March 2026

	VI.WELK / 05-14 March 2020										
	Monday 09-Mar-2026		uesday Mar-2026		esday er-2026		rsday ar-2026	Friday 13-Mar-2026			
09.00-09.50	Laboratory / Physiology Visual Examination Mehtap Kaçar & Burcu G. Başol	Auditory System I	Lecture Biophysics and Function Güvenç Tuna	Lec Biology of Ne Seda Gü	An Parasympa Sy <i>M. Ayberk</i> Bilişli Kara	ratory / atomy chetic Nervous stem Kurt & Edibe & Ahmet Saç oup 1					
10.00-10.50	Group D	Introduction to Au M. A	Biology of Ne	ture rvous System leç Yılmaz	Group 2						
11.00-11.50	Laboratory / Physiology Visual Examination	Sympatheti	Lecture c Nervous System lyberk Kurt	Physiology	cture / of Hearing <i>mici Başol</i>	Autonomic N	cture lervous System emici Başol				
12.00-12.50	Mehtap Kaçar & Burcu G. Başol Group A	Sympatheti	ecture  Nervous System  Physiology of Hearing  Burcu Gemici Başol		Lecture Autonomic Nervous System Burcu Gemici Başol						
13.00-13.50			Lunch Break					White Coat Ceremony			
14.00-14.50	Laboratory / Physiology Visual Examination	Laboratory / Anatomy Sympathetic Nervous System M. Ayberk Kurt & Edibe Bilişli Kara & Ahmet Saç Group 2	Laboratory / Pharmacology Drug Metabolism Ece Genç & Emine Özdamar & Cenk Andaç Group 1	Parasympathetic	cture : Nervous System erk Kurt	Blood ICP L	Intraarterial Sampling ecturer oup D				
15.00-15.50	- Mehtap Kaçar & Burcu G. Başol Group B	Group 1	Laboratory / Pharmacology Drug Metabolism Ece Genç & Emine Özdamar & Cenk Andaç Group 2	Lecture Parasympathetic Nervous System M. Ayberk Kurt							
16.00-16.50	Laboratory / Physiology Visual Examination	AFYA for International	Independent Learning for Turkish	AFYA for International	Independent Learning for	Group D E.Aytaç	SRPC SGS Group A Soner Doğan				
17.00-17.50	Mehtap Kaçar & Burcu G. Başol Group C	Students	students	Students	Turkish students						

### COMMITTEE IV- NERVOUS SYSTEM VII.WEEK / 16-20 March 2026

		Monday 6-Mar-2026	Tuesda 17-Mar-20			Wednesday 18-Mar-2026	Thursday 19-Mar-2026	Friday 20-Mar 2026	
09.00-09.50	Histology of Skin and A	Lecture Appendage: Epidermis, Dermis, ppendage Iin Yaba Uçar	Laboratory/ Phy Hearing test /Galva Respons Group (	anized Skin se		Lecture Neuroimmunology <i>L. Arzu Aral</i>	Independent Learning		
10.00-10.50		Lecture of Skin and Appendage lin Yaba Uçar	Mehtap Kaçar & Burcu Gemici Başol Group C	in and Appendage Group C			Lecture Neuroimmunology <i>L. Arzu Aral</i>	Independent Learning	
11.00-11.50	Lecture Skin, its derivatives, and the Mammary Glands Erdem Söztutar				ā	Lecture Test Hypotheses and Significance- t-Test Çiğdem Keleş	Independent Learning		
12.00-12.50	Lecture Review to Neuroanatomy <i>M. Ayberk Kurt</i>		Group D		Lecture Test Hypotheses and Significance- t-Test Çiğdem Keleş		Independent Learning	RELIGIOUS	
13.00-13.50			Lunch Break					HOLIDAY	
14.00-14.50	Laboratory / Histology& Embryology		0		Lecture Cerebrospinal Fluid and Brain Metabolism <i>Mehtap Kaçar</i>				
15.00-15.50	Histology of CNS and Skin  Alev Cumbul & Skin And Mammary Glands  Group 1  Laboratory / Anatomy Skin And Mammary Glands  Erdem Söztutar & Edibe Bili Kara & Ahmet Saç Group 2		Group A		Cerebros	Lecture pinal Fluid and Brain Metabolism <i>Mehtap Kaçar</i>	RELIGIOUS HOLIDAY		
16.00-16.50 17.00-17.50	Laboratory / Histology& Embryology Histology of CNS and Skin Alev Cumbul & Aylin Yaba Uçar Group 2	Group 1	AFYA for Interna tional Studen ts	ир В	AFYA for International Students	Independent Learning for Turkish students			

### COMMITTEE IV- NERVOUS SYSTEM VIII.WEEK / 23-27 March 2026

	Monday 23-Mar-2026	Tue 24-Ma	esday ar-2026	Wed 25-N	Inesday Iar-2026	Thursday 26-Mar-2026	Fri 27-Mar	day ch-2026
09.00-09.50							Assessment Session (Physiology, Pharmacology, Histology&Embryology, and Anatomy Practical Exams)	
10.00-10.50	Independent Learning	Independe	ent Learning	Independ	lent Learning	Independent Learning		
11.00-11.50	Learning					Assessment Session Committee IV Exam (MCQ)		
12.00-12.50								
13.00-13.50				Lunch Break			Exam Questions Comm	Session Review of the , Evaluation of the nitteeIV gram mmittee IV
14.00-14.50	Independent Learning		Independ	lent Learning		Elective Courses Week	Independent Learning	
15.00-15.50	Independent Learning					Independent Learning		
16.00-16.50		AFYA for International	Independent Learning for	AFYA for International	Independent Learning for Turkish		Independent Learning	Elective Courses Week
17.00-17.50		International Students Turkish students		Students Students			,	VI

# MED - 203 - COMMITTEE V - UROGENITAL and ENDOCRINE SYSTEMS DISTRIBUTION of LECTURE HOURS

March 30<sup>th</sup> – Jun 5<sup>th</sup>, 2026 COMMITTEE DURATION: 10 WEEKS

COURSES	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	SMALL GROUP DISCUSSION	TOTAL
	DISCIPLINE /COMPONENTS				
	ANATOMY	15	2GX5H	0	20
	BIOCHEMISTRY	24	4GX1H 1GX1H	0	26
	BIOPHYSICS	3	0	0	3
	BIOSTATISTICS	4	1GX2H	0	6
	HISTOLOGY & EMBRYOLOGY	12	2GX2H	0	16
	IMMUNOLOGY	2	0	0	1
MED 203	MEDICAL BIOLOGY	5	0	0	5
	MEDICAL MICROBIOLOGY	2	0	0	2
	PATHOLOGY	7	1GX1H	0	8
	PHARMACOLOGY	13	2GX1H	0	14
	PHYSIOLOGY	28	1GX2H 4GX2H	0	32
	SCIENTIFIC RESEARCH and PROJECT-II	0	0	5GX3H	3
	PBL	0	0	6	6
	TOTAL	115	17	9	141
MED 202	INTRODUCTION TO CLINICAL PRACTICE- II	5	5GX3H	0	8
MED 614-631	ELECTIVE COURSES	14	0	0	14

INDEPENDENT LEARNING HOURS 143	
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	Head	Burcu Gemici BASOL, PhD Prof.
	Secretary	Paria SHOJAOLSADATI, PhD . Assist. Prof.
Coordination Committee	Member	Bilge Guvenc TUNA, Ph.D., Assoc. Prof.
	Member	Akif MEHERREM, Ph.D., Assist. Prof.

# COMMITTEE V- UROGENITAL and ENDOCRINE SYSTEMS LECTURERS

	MED 203 BASIC MEDICAL SCIENCES II								
DISCIPLINE	LECTURERS								
ANATOMY	M.Ayberk KURT, MD, PhD. Prof. Erdem SÖZTUTAR, MD, Assist. Prof. Paria SHOJAOLSADATI, PhD. Assist. Prof. LAB: Edibe BİLİŞLİ KARA, PhD. Lecturer LAB: Ahmet SAÇ, MD, PhD. Lecturer								
BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof. LAB: Yeşim ÖZARDA, MD, Prof. LAB: Müge KOPUZ, PhD, Assist. Prof. LAB: Deniz DEMİRTAŞ, MD								
BIOPHYSICS	Akif MEHERREM, PhD, Assist. Prof. Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.								
BIOSTATISTIC	E. Çiğdem KELEŞ, PhD, Assist. Prof.								
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Prof. Alev CUMBUL, PhD, Assoc. Prof.								
IMMUNOLOGY	Latife Arzu ARAL, MD, PhD Prof.								
MEDICAL BIOLOGY	Ayse Ozer, PhD, Prof. Soner Dogan, PhD, Prof. Deniz KIRAÇ, PhD, Prof.								
MICROBIOLOGY	Rabia CAN, MD, Assoc. Prof. Pınar ÇIRAGİL, MD, Prof.								
PATHOLOGY	Aydın SAV, MD, Prof.								
PHARMACOLOGY	Ece GENÇ, PhD, Prof. Emine Nur ÖZDAMAR, MD, Assist. Prof. Cenk ANDAÇ PhD, Assist. Prof.								
PHYSIOLOGY	Mehtap KAÇAR, MD PhD, Prof. Burcu GEMİCİ BAŞOL, PhD, Prof.								
SCIENTIFIC RESEARCH AND PROJECT COURSE-II	Soner DOĞAN, PhD, Prof. Aylin YABA UÇAR, PhD, Prof.								
ELECTIVE COURSES									

MED 202 INTRODUCTION TO CLINICAL PRACTICE II							
DISCIPLINE LECTURERS							
CLINICAL SKILLS LAB	Cem ŞİMŞEK, MD. Assist. Prof Mustafa YAZICIOĞLU, MD. Assist. Prof Gökhan GENÇER, MD. Assist. Prof. Hande Candemir, MD. Assist. Prof. Alev ECEVİZ, MD, Specialist, Instructor Dijan TAV ŞİMŞEK, MD, Specialist, Instructor F.Atakan GÜLTEKİN, MD, Research Assistant, Instructor Rabia Sarıyıldız, MD, Research Assistant, Instructor						

### **COMMITTEE V-UROGENITAL AND ENDOCRINE SYSTEMS**

### AIM AND LEARNING OBJECTIVES

### **AIMS**

- To convey knowledge about biological, anatomical, embryological, histological, physiological, immunological and biochemical properties of urogenital and endocrine systems.
- 2. To convey general knowledge about interrelationship of hormones and immunology,
- 3. To convey knowledge about structural/biological features and pathogenesis of viruses.
- To convey development mechanisms of neoplasia and its effects and consequences on organism.
- 5. To convey information about good laboratory and clinical practices in research projects.
- 6. To convey basic knowledge about biostatistics.

#### **LEARNING OBJECTIVES**

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

#### **KNOWLEDGE**

- 1.0. Describe biology of endocrine system and molecular signal transduction pathways.
- 2.0. In urogenital system, for male and female genital system organs, kidney, ureter, bladder, urethra, pelvis and perineum;
  - 2.1. Describe its anatomy,
  - 2.2. Associate with adjacent tissue and organs,
  - 2.3. Explain their functional and clinical reflections.
- 3.0. In endocrine system, for thyroid, parathyroid, suprarenal gland and thymus,
  - 3.1. Describe its anatomy,
  - 3.2. Associate with adjacent tissue and organs.
  - 3.3. Explain their functional and clinical reflections.
- 4.0. Explain the Histology of Endocrine System;
  - 4.1. general Aspect, Hypothalamus, Epiphysis
  - 4.2. explain the Histology of Endocrine System; Hypophysis
  - 4.3. explain the Histology of Endocrine System; Thyroid and Parathyroid and Suprarenal Glands
  - 4.4. classify embryological origins and explain developmental stages of Endocrine Organs
- 5.0. Explain the histological properties of Urinary System; General Aspect, Kidney Nephron
  - 5.1. explain the histological properties of Urinary System; Excreatory Passage
  - 5.2. explain the Histology of The Male Genital System; Testis
  - 5.3. explain the Histology of The Male Genital System; Excreatory Parts
  - 5.4. explain the Histology of The Female Genital System; Ovaries
  - 5.5. explain the Histology of The Female Genital System; Conducting Part
  - 5.6. Classify embryological origins and explain developmental stages of urinary system organs
  - 5.7. Classify embryological origins and explain developmental stages of male system organs
  - 5.8. Classify embryological origins and explain developmental stages of female system organs
  - Associate the relation between birth anomalies and developmental processes of urogenital organs
- 6.0. In endocrine system;
  - 6.1. Describe endocrine, paracrine and neuroendocrine secretion,
  - 6.2. Explain the regulatory role of hypothalamus and pituitary gland,
  - 6.3. List secretions and functions of endocrine glands and organs.
- 7.0. In urinary system;
  - 7.1. Explain renal function and structure of nephrons,
  - 7.2. Explain renal blood flow and mechanisms of urine production,
  - 7.3. Explain liquid-electrolyte and acid-base equilibrium.
- 8.0. In genital system;
  - 8.1. Explain reproductive hormones and their functions in men and women.
  - 8.2. Describe changes in the maternal body in pregnancy and lactation.
- 9.0. For hormones;

- 9.1. Classify according to mechanisms of action,
- 9.2. Explain their effects and relation to each other.
- 10.0. Explain biochemical functions of vitamins and minerals.
- 11.0. Describe factors causing neoplasia, formation, mechanisms of occurrence, and neoplastic diseases in organism, classification and staging of neoplasia.
- 12.0. Distinguish mechanisms of actions of drugs and explain toxicity of drugs.
- 13.0. Analyze events developing in response to drug receptor interactions.
- 14.0. Describe general principles of antimicrobial chemotherapy.
- 15.0. Describe general principles of cancer chemotherapy.
- 16.0. Describe pharmacology of inflammation and immunomodulation.
- 17.0. Describe the structural/biological features of microorganisms affecting urogenital tract
- 18.0. Describe the interrelationship of hormones and immunology
- 19.0. Describe the general principles of magnetic resonance imaging
- 20.0. For correlations between two continuous variables
  - 20.1. Explain linear correlations using scatter plot and correlation coefficients
  - 20.2. Classify the interpretations of the correlation coefficient
- 21.0. Explain linear regression equation and its features
- 22.0. Explain case scenario related basic medical science topics in a clinical context.
- 23.0. Define the prenatal diagnosis and teratology

### COMMITTEE V - UROGENITAL and ENDOCRINE SYSTEMS

COMMITTEE ASSESSMENT MATRIX									
LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DIS	TRIBUTION o	of MCQs and	SbMCQ			
OBOLOTIVLO		INOTROCTOR	CE	FE	IE	TOTAL			
2.0-3.0,22.0	ANATOMY	Dr. P. Shojaolsadati	13	6	6	25			
9.0-10.0	BIOCHEMISTRY	Dr. İ. Özden	20	9	9	38			
19.0	BIOPHYSICS	Dr. B.G. Tuna	3	1	1	5			
20.0-21.0	BIOSTATISTICS	Dr. E.Ç. Keleş	3	1	1	5			
4.0-5.0,23.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	11	5	5	21			
18.0	IMMUNOLOGY	Dr.L. Arzu Aral	1	1	1	3			
1.0	MEDICAL BIOLOGY	Dr. A. Ozer Dr. S. Doğan Dr.D. Kıraç	4	2	2	8			
17.0	MEDICAL MICROBIOLOGY	Dr. Rabia Can Dr. Pınar Çıragil	2	1	1	4			
11.0	PATHOLOGY	Dr. A. Sav	6	2	2	10			
12.0-16.0	PHARMACOLOGY	Dr. E. Genç Dr. E. N. Özdamar Dr. C. Andaç	11	4	4	19			
6.0-8.0, 22.0	PHYSIOLOGY	Dr. M. Kaçar Dr. B. Gemici Başol	25	10	10	45			
22.0	PBL		1	0	0	1			
	TOTAL	•	100	42/200#	42/200#				
LEARNING			POINTS of A	SSESSMENT	METHODS				
OBJECTIVES	DISCIPLINE	LPE		Q	UIZ				
2.0-3.0	ANATOMY	35							
8.0-9.0	BIOCHEMISTRY	5							
20.0-21.0	BIOSTATISTICS	5							
4.0.	HISTOLOGY & EMBRYOLOGY	10							
10.0.	PATHOLOGY	5							
11.0-15.0.	PHARMACOLOGY	5							

**TOTAL** 

**PHYSIOLOGY** 

5.0-7.0

Total number of MCQs are 100, equal to 100 pts. Each question has 1 pt.). Total value of LPE is equal to 100 points Committee Score (CS) 95% of [90% CE (MCQ) + 10% (LPE)] + 5% of PBL-P

Abbreviations:

MCQ: Multiple Choice
Questions LPE: Laboratory
Practical Exam CE:
Committee Exam CE:
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
Pts:: Points

# In FE and ICE, 46 out of 200 FE and ICE MCQs will be from Committee I (Each question is equal val

35

100

# COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS I- WEEK / 30 March – 3 April 2026

	Monday 30-March-2026		uesday larch-2026	w	/ednesday April-2026	Thursday 2-April-2026			Friday 3-April-2026	
09.00-09.50	33 mai 311 2023	Lecture Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors inci Özden			ndent Learning	Lecture  Rody Fluids and Functions			Independent Learning	
10.00-10.50	PBL Session-I	Lecture Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors Inci Özden		Independent Learning		Lecture Micturition Burcu Gemici Başol		rition	Independent Learning	
11.00-11.50		Mechanism	ecture n of Drug Action 1 ce Genç	L The <i>Paria</i>	Laboratory/ Anatomy Urinary System Paria Shojaolsadati & Edibe Bilişli Kara & Ahmet Saç Group 1			Lecture Urine Formation and Renal Blood Flow Burcu Gemici Başol		
12.00-12.50	Independent Learning	Mechanism	Lecture n of Drug Action 2 ce Genç	Drug Action 2 The Kidneys		Group 2			Lecture Urine Formation and Renal Blood Flow Burcu Gemici Başol	
13.00-13.50				L	unch Break					
14.00-14.50	Introduction to Committee V Secretary of Committee	Mechanisms o Intracellular Re	ecture of Hormone Actions, r and Cell Surface eceptors ci Özden	General Asp	Lecture of Urinary System: pect, Kidney Nephron in Yaba Uçar	ICP / CSL: Intraarterial Blood Sampling Ezgi Aytaç Group E			Elective Courses Week	Independent Learning
15.00-15.50	Lecture Introduction to Urinary System <i>Paria Shojaolsadati</i>	Mechanisms o Intracellular Re	ecture of Hormone Actions, r and Cell Surface eceptors ci Özden	Excr	Lecture of Urinary System: etory Passage in Yaba Uçar			VIII	Learning	
16.00-16.50	Lecture Urinary Tracts and Suprarenal Glands Paria Shojaolsadati	AFYA for International Students	Independent Learning for Turkish	AFYA for International Students	Independent Learning for Turkish	Group E		SRPC SGS Group C Soner Doğan	Independent Learning	Elective Courses Week VIII
17.00-17.50	Independent Learning	Students	Students	Students	Students					VIII

# COMMITTEE V- UROGENITAL and ENDOCRINE SYSTEMS II. WEEK / 6 - 10 April 2026

II. WEEK/ 0 TO April 2020								
	Monday 6-April-2026	Tuesday 7-April-2026	Wednes 8-April-2	•		rsday ril-2026		riday pril-2026
09.00-09.50		Lecture Biology of Endocrine System Deniz Kıraç	Independent Learning		Independent Learning		Mechanisms o Intracellular Re	ecture of Hormone Actions, and Cell Surface oceptors of Özden
10.00-10.50	PBL Session-II	Lecture Molecular Basis of Sexual Differentiation Deniz Kıraç	Lecture Introduction to Genital Systems <i>Paria Shojaolsadati</i>		Independent Learning		Lecture Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors Inci Özden	
11.00-11.50				re Organs aolsadati			Lecture Histology of The Male Genital System; Testis Alev Cumbul	
12.00-12.50	Independent Learning	Lecture  Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors Inci Özden	ormone Actions, Id Cell Surface Male Genital Organs Paria Shojaolsadati		Independent Learning		Lecture Histology of The Male Genital System; Excretory Parts <i>Alev Cumbul</i>	
13.00-13.50			Lunch Brea	ak				
14.00-14.50	Lecture Urine Formation: Tubular Processing Burcu Gemici Başo	Lecture Fluid and Electrolyte Balance <i>Burcu Gemici Başol</i>	Independent Learning		ICP / CSL: Bladder Catheterization Dr. Cem Şimşek / Dr.Dijan Tav Şimşek Group A		Elective Courses Midterm	Independent Learning
15.00-15.50	Lecture Urine Formation: Tubular Processing Burcu Gemici Başo	Lecture Fluid and Electrolyte Balance Burcu Gemici Başol	Spiroch	Lecture Spirochete Pınar Çıragil		SRPC SGS	Exam	
16.00-16.50	Independent Learning	Independent Learning	AFYA for International	Independent Learning for Turkish	Group A	Group C Soner Doğan	Independent Learning	Elective Courses Midterm Exam
17.00-17.50	Independent Learning	Independent Learning	Students	Students			Learning	
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# COMMITTEE V- UROGENITAL and ENDOCRINE SYSTEMS III. WEEK / 13-17 April 2026

				LICT 19-17 April 2	<del></del>			1	1
	Monday 13-April-2026	Tuesday 14-April-2026		Wednes 15-Ap	day ril-2026	1	Thursday 6-April-2026		riday pril-2026
09.00-09.50	Laboratory / Anatomy Male Genital Organs Paria Shojaolsadati & Edibe Bilişli Kara & Ahmet Saç Group 2	Laboratory / Physiolo Glomerular Filtratio <i>Mehtap Kaçar &amp; Burcu G.</i> Group A	n	Independent Learning		Lecture Posterior Pituitary Hormones <i>Mehtap Kaçar</i>		Hormones of	ecture posterior Pituitary ci Özden
10.00-10.50	Group 1	Laboratory / Physiolo Glomerular Filtratio <i>Mehtap Kaçar &amp; Burcu G.</i> Group B	n	Thyroid and Parathyroid and Thyroid Metak		Lecture   Metabolic Hormones   Mehtap Kaçar	Hormones of	ecture posterior Pituitary i Özden	
11.00-11.50	Lecture Histology of Endocrine System: General Aspect, Hypothalamus, Epiphysis <i>Aylin Yaba Uçar</i>	Laboratory / Physiolo Glomerular Filtratio <i>Mehtap Kaçar &amp; Burcu G.</i> Group C	n	Correlat	Lecture Correlation Çiğdem Keleş  Lecture Hormones of Hypothalamu Pituitary Inci Özden		s of Hypothalamus and Pituitary	Hormone	ecture s and Immunity Arzu Aral
12.00-12.50	Lecture Histology of Endocrine System: Hypophysis Aylin Yaba Uçar	Laboratory / Physiolo Glomerular Filtratio <i>Mehtap Kaçar &amp; Burcu G.</i> Group D	n	Lectur Correlat Çiğdem k	ion	Lecture Thyroid Hormones İnci Özden		Hormone	ecture s and Immunity Arzu Aral
13.00-13.50				Lunch Bre	ak				
14.00-14.50	Lecture Regulation of Acid-Base Balance Burcu Gemici Başol	Lecture Hormones of Hypo and Pituitary İnci Özden	thalamus	Lecture Introduction to Endocrinology <i>Mehtap Kaçar</i>		ICP / CSL: Bladder Catheterization Dr. Mustafa Yazıcıoğlu / Dr.Atakan Gültekin Group B		Elective Courses Week	Independent Learning
15.00-15.50	Lecture Regulation of Acid-Base Balance Burcu Gemici Başol	Lecture Hormones of Hypothalam Pituitary İnci Özden	us and	Lecture Pituitary Gland a HypothalamicCon <i>Mehtap</i>	trol	Group B	SRPC SGS Group D Soner Doğan	VIII	independent Learning
16.00-16.50	Independent Learning		pendent erning	AFYA for International	Independent Learning		Soliei Dogail	Independent Learning	Elective Course

17.00-17.50	Independent Learning	Students	Students			Week VIII

# COMMITTEE V- UROGENITAL and ENDOCRINE SYSTEMS IV. WEEK / 20-24 April 2026

	THE TELETY AND ATTION AND ADDRESS OF THE PARTY OF THE PAR							
	Monday 20-April-2026		ıesday pril-2026	Wednesday 22-April-2026	Thursday 23-April-2026		riday pril-2026	
09.00-09.50	Lecture Hormones of Adrenal Cortex and Adrenal Medulla İnci Özden	PTH, Calci	ecture tonin, Calcitriol :i Özden	Lecture Development of Urinary System and Anomalies Alev Cumbul		Independent Learning		
10.00-10.50	Lecture Hormones of Adrenal Cortex and Adrenal Medulla Inci Özden	PTH, Calci	ecture tonin, Calcitriol :i Özden	Lecture Development of Genital System; General Aspect Alev Cumbul	NATIONAL HOLIDAY	Independ	dent Learning	
11.00-11.50	Lecture Adrenocortical Hormones <i>Mehtap Kaçar</i>	Female G	ecture Senital Organs hojaolsadati	Laboratory/ Biostatistics Computer Applications of Tests of Significance Çiğdem Keleş Group A	NATIONAL HOLIDAY	Independent Learning		
12.00-12.50	Lecture Adrenocortical Hormones <i>Mehtap Kaçar</i>	Lecture Female Genital Organs Paria Shojaolsadati		Group B		Independent Learning		
13.00-13.50				Lunch Break				
14.00-14.50	Lecture Histology of The Female Genital System; Ovaries Alev Cumbul	Linear	ecture Regression dem Keleş	Laboratory / Anatomy Female Genital Organs Paria Shojaolsadati & Edibe Bilişli Kara & Ahmet Saç Group 1		Elective Course	Independent Learning	
15.00-15.50	Lecture Histology of The Female Genital System; Conducting Part Alev Cumbul	Linear	Lecture Regression dem Keleş	Group 2	NATIONAL HOLIDAY	Week IX		
16.00-16.50	Independent Learning	AFYA for International Students	Independent Learning	Lecture Papilloma and polyoma viruses Rabia Can		Independent Learning	Elective Courses Week IX	
17.00-17.50	Independent Learning	Students		Independent Learning				

# COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS V. WEEK / 27 April - 1 May 2026

	Monday 27-April-2026	Tues 28-Apri	day	Wednes 29-April-	sday		Thursday 30-April-2026	Friday 1-May-2026
09.00-09.50	Lecture Insulin, Glucagon İnci Özden	Insulin, Glucagon Insulin, Glucagon Introduction to Neoplasia and Independent Learning						
10.00-10.50	Lecture Insulin, Glucagon <i>İnci Özden</i>	Insulin, Gl	Lecture Insulin, Glucagon Inci Özden  Lecture Introduction to Neoplasia and Biologic Behaviors of Neoplasm Aydın Sav			Independent Learning		
11.00-11.50	Lecture Insulin, Diabetes Mellitus <i>Mehtap Kaçar</i>	Regulation of Calci Metabolism and E	Lecture Regulation of Calcium & Phosphate Metabolism and Bone Formation Mehtap Kaçar		Lecture Development of Male Genital System and Anomalies Alev Cumbul		ependent Learning	NATIONAL HOLIDAY
12.00-12.50	Lecture Insulin, Diabetes Mellitus Mehtap Kaçar	Regulation of Calci Metabolism and E	Lecture  Regulation of Calcium & Phosphate Metabolism and Bone Formation Mehtap Kaçar  Lecture  Development of Female Genital System and Anomalies Alev Cumbul		Ind	ependent Learning		
13.00-13.50				Lunch Break	3			
14.00-14.50	Laboratory / Histology Histology of ES & US (Kidney, Hypophysis, Thyroids, Pancreas)	Lect Regulation of Calc Metabolism and I <i>Mehtap</i>	ium & Phosphate Bone Formation	Lecture Nerves of the Pelvis Paria Shojaolsadati		ICP / CSL: Bladder Catheterization  Dr. Alev Eceviz / Dr.Rabia Sarıyıldız  Group C		
15.00-15.50	Alev Cumbul &  Aylin Yaba Uçar  Group 1  Lecture  Regulation of Calcium & Phosphate  Vascul		Lecture Vasculature of Paria Shojad	the Pelvis			NATIONAL HOLIDAY	
16.00-16.50	Group 2	AFYA for International	Independent	AFYA for International	Independent	Group C	SRPG SGS Group E	
17.00-17.50	3.5dp 2	Students	Learning	Students	Learning			

# COMMITTEE V- UROGENITAL and ENDOCRINE SYSTEMS VI. WEEK / 4 - 8 May 2026

	Monday 4-May-2026		uesday lay-2026		esday /-2026		sday <i>y</i> -2026		day <i>-</i> 2026
09.00-09.50	Lecture Basics of MRI Bilge Güvenç Tuna	Lecture Male ReproductivePhysiology <i>Mehtap Kaçar</i>		Hormones Reg Metal	cture gulating Calcium bolism Özden	Lecture Female Reproductive Physiology <i>Mehtap Kaçar</i>		Lecture Vasoactive Compounds Emine Nur Özdamar	
10.00-10.50	Lecture Basics of MRI Bilge Güvenç Tuna	Lecture Male Reproductive Physiology <i>Mehtap Kaçar</i>		Hormones Reg Metal	cture gulating Calcium bolism Özden	Lecture Female Reproductive Physiology <i>Mehtap Kaçar</i>		Histamine an	ture d Antihistamines ır Özdamar
11.00-11.50	Lecture Post-receptor Events and Second Messengers Cenk Andaç	Lecture Drug Toxicity-1 Cenk Andaç		Introductio Pharmac	cture n to Rational cotherapy ur Özdamar	Laboratory / Anatomy Perineum and Ischiorectal Fossa <i>Paria Shojaolsadati &amp; Edibe Bilişli Kara &amp;</i> <i>Ahmet</i> Saç Group 1		Efficacy and P Ece Genç Özdamar8	HARMACOLOGY otency Concepts & Emine Nur Cenk Andaç oup 1
12.00-12.50	Lecture Introduction to Drug Development Cenk Andaç	Lecture Drug Toxicity-2 Cenk Andaç		Eico	ecture osanoids ur Özdamar	Group 2		Group 2	
13.00-13:50				Lu	nch Break				
14.00-14.50	Lecture Pharmacogenetics & Pharmacogenomics Ece Genç	Development of	ecture f Biopharmaceuticals c <i>Andaç</i>	Prenatal Diagno and Congenit		ICP / CSL: Bladder Catheterization Dr. Gökhan Gencer/ Dr.Atakan Gültekin Group D		Elective Courses	Independent
15.00-15.50	Lecture Pharmacogenetics & Pharmacogenomics Ece Genç	Seeing with Sound (Diagnostic U	ecture d: Images from Echoes Itrasound Imaging) Güvenç Tuna	Lecture Perineum and Ischiorectal Fossa Paria Shojaolsadati				Week XI	Learning
16.00-16.50	Laboratory / Anatomy Nerves and Vessels of the Pelvis <i>Paria Shojaolsadati</i> & Edibe Bilişli Kara & Ahmet Saç Group 2	AFYA for International Students	Independent Learning	AFYA for International Students	Independent Learning	Group D	SRPC SGS Group A Soner Doğan	Independent Learning	Elective Courses Week XI
17.00-17.50	Group 1								

# COMMITEE V- UROGENITAL and ENDOCRINE SYSTEMS VII. WEEK / 11"-15 May 2026

	Monday 11-May-2026	Tuesday 12-May-2026	Wednesday 13-May-2026	Thursday 14-May-2026	15-	Friday -May-2026
09.00-09.50	Independent Learning	Lecture Physiology of Growth Hormones Mehtap Kaçar	Independent Learning	Lecture Hormone Signal Transduction (Insulin)  Ayse Ozer	Hormone Sign	Lecture nal Transduction (Estrogen) Soner Dogan
10.00-10.50	Independent Learning	Lecture Pineal Gland & Melatonin <i>Mehtap Kaçar</i>	Independent Learning	Lecture Review of the Urinary System Paria Shojaolsadati		Lecture nal Transduction (Estrogen) Soner Dogan
11.00-11.50	Lecture Minerals <i>İnci Özden</i>	Lecture Physiology of Growth Hormones <i>Mehtap Kaçar</i>	Independent Learning	Laboratory/ Biostatistics Computer Applications of Tests of Significance Çiğdem Keleş Group C		Lecture ancy and Lactation Mehtap Kaçar
12.00-12.50	Lecture Minerals İnci Özden	Lecture Pineal Gland & Melatonin <i>Mehtap Kaçar</i>	Independent Learning	Group D		Lecture ancy and Lactation Mehtap Kaçar
13.00-13:50			Lunc	h Break	-	
14.00-14.50	Laboratory / Histology Histology of Genital Systems (Testis, Vas Defferentes, Ovary,	Laboratory / Physiology Dissection and Examination of Endocrine System	Lecture Histogenesis and Nomenclature <i>Aydın Sav</i>	ICP / CSL: Bladder Catheterization Dr. Hande Candemir Ercan / Dr.Rabia Sarıyıldız Group E	Elective Courses Week XII	ICP review
15.00-15.50	Uterus) Alev Cumbul & Aylin Yaba Uçar Group 2	Aylin Yaba Uçar Group A,B,C,D Histogenesis and Nomenclature			Group A-B-C-D-E	
16.00-16.50	Group 1	AFYA for Internation al Students Learning	AFYA for International Independent Students Learning	SRPC SGS Group E Group B Soner Doğan	ICP review Group A-B-C-D-E	Elective Courses Week XII
17.00-17.50	-					

# COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS VIII. WEEK / 18-22 May 2026

					,		
	Monday 18-May-2026	Tuesday 19-May-2026	Wednesday 20-May-2026		Thursday 21-May-2026	Frida 22-May-	
09.00-09.50	Independent Learning		Fetal a	Lecture and Neonatal nysiology htap Kaçar	Independent Learning	Laboratory / BIOCHEMISTRY Urine Analyses Müge Kopuz Alvarez Noval & Yeşim Özarda & Deniz Demirtaş Group A	Laboratory / Physiology Metabolic Rate Mehtap Kaçar & Burcu G.Başol Group D
10.00-10.50	Independent Learning	NATIONAL	Endocri	Lecture ne Distruptors htap Kaçar	Lecture Endocrine Organs Paria ShojaoIsadati	Laboratory / BIOCHEMISTRY Urine Analyses Group D	Laboratory / Physiology Metabolic Rate Group A
11.00-11.50	Independent Learning	HOLIDAY	Disorders ar	Lecture amage by Eating nd Diabetes Mellitus ydın Sav	Lecture Endocrine Organs Paria Shojaolsadati	Laboratory / BIOCHEMISTRY Urine Analyses Group B	Laboratory / Physiology Metabolic Rate Group C
12.00-12.50	Independent Learning		Laboratory/Pathology Inflammation and Neoplasia <i>Aydın Sav</i>		Laboratory Lecture Urine Analyses Müge Kopuz Alvarez Noval &Yeşim Özarda & Deniz Demirtaş Group A, B, C, D	Laboratory / BIOCHEMISTRY Urine Analyses Group C	Laboratory / Physiology Metabolic Rate Group B
13.00-13:50					Lunch Break		
14.00-14.50	Independent Learning		V	ecture itamins ci Özden	Independent Learning		
15.00-15.50	Independent Learning	NATIONAL HOLIDAY	Lecture Vitamins <i>İnci Özden</i>		Independent Learning	Elective Courses Week XIII	Independent Learning
16.00-16.50	Independent Learning	- HOLIDAT	AFYA for International	Independent	Independent Learning	Independent Learning	Elective Courses Week XIII
17.00-17.50	Independent Learnig		Students Learning		Independent Learning		

### COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS IX. WEEK / 25-29 May 2026

	IX. WEEK / 25-29 May 2026							
	Monday 25-May-2026	Tuesday 26-May-2026	Wednesday 27-May-2026	Thursday 28-May-2026	Friday 29-May-2026			
09.00- 09.50								
10.00- 10.50	Independent Learning	NATIONAL HOLIDAY	NATIONAL HOLIDAY	NATIONAL HOLIDAY	NATIONAL HOLIDAY			
11.00- 11.50								
12.00- 12.50								
13.00- 13.50								
14.00- 14.50								
15.00- 15.50	Independent Learning	NATIONAL	NATIONAL	NATIONAL	NATIONAL			
16.00- 16.50		HOLIDAY	HOLIDAY	HOLIDAY	HOLIDAY			
17:00-17:50								

### COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS X. WEEK / 1-5 Jun 2026

	Monday 1-Jun-2026	Tuesday 2-Jun-2026	K / 1-5 Jun 2026 Wednesday 3-Jun-2026	Thursday 4-Jun-2026	Fri 5-Jun	day ı-2026
09.00- 09.50						, Pathology, iostatistics and
10.00- 10.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning		
11.00- 11.50					Theoreti Comm	nt Session cal Exam littee V CQ)
12.00- 12.50						
13.00- 13.50			Program Evalu Review of the E Evaluation of the Co Secretary of th	xam Questions, ommittee V Program		
14.00- 14.50					Elective Courses Week	Independent Learning
15.00- 15.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning		
16.00- 16.50					Independent Learning	Elective Courses Week
17:00-17:50						

### 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
- I) Consultant-student relationship is a dynamic and mutual process carried out within the campus and the hospital. It is recommended that the consultant and the student meet at least twice during a semester.

### The expectations from the student are as follows:

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

Student counsellors will be appointed after finalization of the class list and will be announced to the students. After the announcement of the counsellors on the information board, each student is expected to contact his/her counsellor until the end of the current committee.

	STUDENT NUMBER	NAME	SURNAME	COUNSELOR
1	20230800032	MEHMET FURKAN	AÇIKGÖZ	
2	20240800086	ALİ BURAK	AKBABA	
3	20220800003	ARSHIA	AKBARI	
4	20230800039	FARUK	AKÇAY	
5	20240800110	SAMİ	AKDOĞAN	
6	20230800115	ALIYA	ALIBAYLI	
7	20240800145	SAFAIL	ALIYEV	
8	20240800090	LARA	ALTUĞ	
9	20240800137	FARIMEHR	ASADI	
10	20210800002	SARA	ASSADI	
11	20240800015	ILIAH	ASSAREH	
12	20220800109	MELİS	AYDIN	
13	20240800146	ELISA	BAHRAMI	
14	20240800038	TEKİN EGE	BARDAKÇIOĞLU	
15	20240800097	GÖRKEM	BAŞARAN	
16	20240800042	KAĞAN	BAŞARI	
17	20240800025	SERRA	BERK	
18	20240800037	YAPRAK ÖZGÜR	BİLİR	
19	20220800128	EMRE MÜNİR	BIRCAN	
20	20240800055	SARP CAFER	BOSTANCI	
21	20240800053	ZEYNEP	BULUT	
22	20230800042	RANA	BULUT	

20230800092	BEGÜM	BÜYÜKKİRAZ	
20240800045			
	PERNUR	CİHAN	
20240800059	DİLEM	COŞGUN	
20240800063	EMİRHAN	CÜCÜ	
20230800068	AHMET EREN	ÇAKIR	
20240800102	DUYGU	ÇAM	
20240800084	ÖZDE	ÇETİN	
20240800048	MELİSA	ÇİNAR	
20240800012	SADRA	DARBARI KOOZEHKANAN	
20240800099	SALİH EMRE	DEMİRKOL	
20240800104	CANSU	DENİZ	
20220800012	BENYAMIN	DERAKHSHANI ZADEH	
20240800083	EZGİ	DOĞAN	
20240800023	ZEYNEP	DORMAN	
20220800130	ZÜLAL	DUMAN	
20230800041	FEYZA	DURLANIK	
20240800046	EYLÜL BERİLSU	ER	
20240800068	NAZ	ERCAN	
20240800049	GÜL DOĞA	ERDOĞAN	
20240800082	HESNA ELİF	ERİM	
20240800087	NİL	ERTEN	
20240800052	DURU	ESER	
20230800067	ÜLKÜ NEHİR	FİLİZ	
	20240800063  20240800068  20240800084  20240800012  20240800012  20240800019  20240800012  20220800012  20240800083  20220800130  20220800130  20230800041  20240800068  20240800082  20240800082  20240800087	20240800063 EMÍRHAN 20230800068 AHMET EREN 20240800102 DUYGU 20240800084 ÖZDE 20240800048 MELÍSA 20240800012 SADRA 20240800099 SALÍH EMRE 20240800104 CANSU 20220800012 BENYAMIN 20240800083 EZGÍ 20240800023 ZEYNEP 2022080011 FEYZA 2022080011 FEYZA 20240800046 EYLÜL BERÎLSU 20240800068 NAZ 20240800049 GÜL DOĞA 20240800087 NÎL 20240800052 DURU	20240800063         EMIRHAN         CÜCÜ           20230800068         AHMET EREN         ÇAKIR           20240800102         DUYGU         ÇAM           20240800084         ÖZDE         ÇETİN           20240800048         MELİSA         ÇİNAR           20240800012         SADRA         DARBARI KOOZEHKANAN           20240800099         SALİH EMRE         DEMİRKOL           202208000104         CANSU         DENİZ           20220800012         BENYAMİN         DERAKHSHANİ           20240800083         EZGİ         DOĞAN           202240800023         ZEYNEP         DORMAN           20220800130         ZÜLAL         DUMAN           20220800041         FEYZA         DURLANIK           20240800046         EYLÜL BERİLSU         ER           20240800068         NAZ         ERCAN           20240800049         GÜL DOĞA         ERDOĞAN           20240800082         HESNA ELİF         ERİM           20240800082         DURU         ESER

20240800016	RIANNA MARIA	FRATILA	
20240800122	LENA ALARA	GECICI	
20240800118	SELEN	GÜLENER	
20230800091	NAZ	GÜNDÜZ	
20230800035	ENGIN TAHA	GÜNEY	
20230800096	AHMET ERSIN	GÜR	
20240800078	DENİZ HEVAL	GÜRKAN	
20240800064	ALİ	GÜRSOY	
20240800089	NİL	GÜVEN	
20240800120	EMAD	HASHEMZADEH	
20240800018	NEGIN	JALALI MILANI	
20240800001	NARIMAN	KALANTARITALEGHA NI	
20240800111	ZEYNEP	KAMBUROĞLU	
20240800069	SENA	KAMİLOĞLU	
20240800061	iDiL	KARA	
20230800074	AYŞE MERVE	KARADAĞ	
20240800076	AYŞE SUDE	KARADAĞLI	
20230800076	NEHİR	KARAEMİNOĞULLAR I	
20240800096	BORA	KARAOĞLU	
20240800095	AZRA	KENTLİ	
20240800113	MELİS	KESİM	
20240800071	NEHİR	KESKİN	
20240800138	SADEEL	KHALED ABU AL NAAJ	
	20240800122 20240800118 20230800091 20230800096 20240800078 20240800064 202408000120 20240800013 20240800011 20240800069 20240800061 20230800074 20240800076 20230800076 20240800095 20240800013	20240800122 LENA ALARA  20240800118 SELEN  20230800091 NAZ  20230800095 ENGIN TAHA  20240800078 DENIZ HEVAL  20240800064 ALI  20240800120 EMAD  20240800018 NEGIN  20240800011 ZEYNEP  20240800111 ZEYNEP  2024080069 SENA  20240800061 IDIL  20230800074 AYŞE SUDE  20240800076 NEHIR  20240800095 AZRA  20240800013 MELIS  20240800071 NEHIR	20240800122         LENA ALARA         GECICI           20240800118         SELEN         GÜLENER           20230800091         NAZ         GÜNDÜZ           20230800035         ENGİN TAHA         GÜNEY           20230800096         AHMET ERSİN         GÜR           20240800078         DENİZ HEVAL         GÜRKAN           20240800064         ALİ         GÜVEN           202408000120         EMAD         HASHEMZADEH           20240800018         NEĞİN         JALALI MILANI           20240800001         NARIMAN         KALANTARİTALEĞHA NI           20240800011         ZEYNEP         KAMBUROĞLU           20240800069         SENA         KAMİLOĞLU           20240800069         SENA         KARADAĞ           20240800061         İDİL         KARA           20240800074         AYŞE BUDE         KARADAĞLI           20240800076         NEHİR         KARADAĞLI           20240800096         BORA         KARAOĞLU           20240800095         AZRA         KENTLİ           202408000113         MELİS         KESİM           202408000138         SADEEL         KHALED ABU AL

69	20240800011	NAZANIN	KHODAEI DARVISHBAGHAL	
70	20240800056	UMUT BERKAY	KILIÇ	
71	20240800108	İLAYDA GÜNEŞ	KILIÇ	
72	20240800112	MERT	KILIÇOĞLU	
73	20240800072	HASAN EGE	KIRCELLİ	
74	20230800064	NİSA NUR	KISACIK	
75	20230800129	MOEIN	KIUMARTHI	
76	20230800038	FATMANUR	KIZGIN	
77	20240800073	İYEM ASYA	КОВҮА	
78	20240800002	TALIA	KOCA	
79	20240800074	ELİF	KOCAMAN	
80	20240800115	FARUK	KOÇ	
81	20240800079	CAN	KOÇTÜRK	
82	20240800094	DENİZ	KORKMAZ	
83	20240800065	BETÜL	KORUK	
84	20240800127	ROSHA	MAFIGHAZVIN	
85	20230800073	SELİM ALP	MALTEPE	
86	20230800085	İDİL DİLŞAH	MENTEŞOĞLU	
87	20220800005	SEYEDALI	MOUSAVI	
88	20240800075	MEHMET	MÜLAYİM	
89	20240800141	MAHLA	NAVADEH KHAZAL	
90	20240800054	MERT	ONBAŞI	
91	20240800062	LEVENT ARAL	ÖDEMİŞ	

92	20240800070	MERT	ÖNEN	
93	20230800050	CANKAT	ÖZBAKIR	
94	20220800087	MUHİTTİN ZORLU	ÖZBİÇER	
95	20240800043	LEYLANUR	ÖZÇELİK	
96	20240800119	BENGISU	ÖZÖREN	
97	20230800100	HASAN EGE	ÖZTÜRKMEN	
98	20220800048	GÖKALP OĞUZ	ÖZÜN	
99	20240800114	DEFNE	ÖZVARAN	
100	20240800017	ROMINA	PAKNEJAD	
101	20240800100	IRMAK	PAKSOY	
102	20240800066	CEREN	PEKGÖZ	
103	20220800125	MEHMET ATAKAN	POLAT	
104	20240800004	BADRULDEEN	RABBAT	
105	20230800030	HELIA	RAHİMİAN	
106	20220800008	DELARAM	ROSTAMZADEH	
107	20230800001	HAMED	SAHRANAVARD	
108	20230800111	RAHA	SARDARI	
109	20230800097	METE	SAVEREN	
110	20240800010	DELARA	SHAHRAKI GHADIMI	
111	20210800163	ROZA	SHOAEI	
112	20240800035	YAĞMUR	SIVRIKAYA	
113	20240800085	ELİF	ŞAŞMAZ	
114	20230800083	YAPRAK	ŞENDAĞ	

115	20240800123	ERIK ARDEN	TAGHIZADEH	
116	20240800020	CANSU	TALAY	
117	20210800124	KEREM	TAŞKIRAN	
118	20240800040	ELIF SIBEL	TATAR	
119	20210800137	ZEHRA ZEREN	TECIM	
120	20230800088	YAĞIZ TAMER	TETİKER	
121	20200800087	ÇAĞATAY	TOMRUK	
122	20230800008	KARYA	TURABİK	
123	20240800057	ELİF BAHAR	TÜRKKAN	
124	20220800135	YUSUF TUNA	TÜRKSOY	
125	20240800091	MELİSA	TÜTÜNCÜ	
126	20240800117	GÖRKEM	TÜTÜNCÜ	
127	20240800058	BARTU	ULUĞ	
128	20240800135	MARYAM	UMAR	
129	20240800021	MEHMET EMRE	ÜNAL	
130	20240800044	MEHMET EMİR	ÜRGÜP	
131	20230800077	BARAN	YABANCI	
132	20240800093	MUHAMMED MİRHAN	YAKUT	
133	20230800132	DİLARA	YALÇIN	
134	20240800060	ELİF	YAMANER	
135	20240800067	CEMRE	YAZICI	
136	20240800051	KEMAL METE	YILDIRIM	
137	20240800080	DİLAY	YILDIZ	
138	20240800005	ECE	YILMAZ	

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