

**YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II
ACADEMIC PROGRAM BOOK
2021 – 2022**

Student's;
Name :
Number :

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

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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 *, **

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Abbreviations: PO: Program Outcomes, POD: Program Outcomes Domain, PODG: Program Outcomes Domain Group

PODG.1. Basic Professional Competencies

POD.1.1. Clinical Competencies

PO.1.1.1. values preventive health services, **offers** primary prevention (i.e. prevention of diseases for the protection of health), secondary prevention (i.e. early diagnosis and treatment) tertiary prevention (i.e. rehabilitation) and quaternary prevention (i.e. prevention of excessive and unnecessary diagnosis and treatment) services, **provides** consultancy on these issues.

PO.1.1.2. employs a patient-centered approach in patient management.

PO.1.1.3. recognizes most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.

PO.1.1.4. takes medical history from the applicant himself/herself or from the individual's companions.

PO.1.1.5. does general and focused physical and mental examination.

PO.1.1.6. interprets findings in medical history, physical and mental examination.

PO.1.1.7. employs diagnostic procedures that are used frequently at the primary health care level.

PO.1.1.8. selects tests that have evidence-based high efficacy at the primary health care level and **interprets** results.

PO.1.1.9. makes clinical decisions using evidence-based systematic data in health care service.

PO.1.1.10. performs medical interventional procedures that are used frequently at the primary health care level.

PO.1.1.11. manages healthy individuals and patients in the context of health care services.

PO.1.1.12. keeps medical records in health care provision and **uses** information systems to that aim.

POD.1.2. Competencies related to Communication

PO.1.2.1. throughout his/her career, **communicates** effectively with health care beneficiaries, co-workers, accompanying persons, visitors, patient's relatives, care givers, colleagues, other individuals, organizations and institutions.

PO.1.2.2. collaborates as a team member with related organizations and institutions, with other professionals and health care workers, on issues related to health.

PO.1.2.3. recognizes the protection and privacy policy for health care beneficiaries, co-workers, accompanying persons and visitors.

PO.1.2.4. communicates with all stakeholders taking into consideration the socio-cultural diversity.

POD.1.3. Competencies Related to Leadership and Management

PO.1.3.1. manages and **leads** within the health care team in primary health care organization.

PO.1.3.2. recognizes the principles of health management and health sector economy, models of organization and financing of health care services.

PO.1.3.3. recognizes the resources in the health care service, the principles for cost-effective use.

POD.1.4. Competencies related to Health Advocacy

PO.1.4.1. recognizes the health status of the individual and the community and the factors affecting the health, **implements** the necessary measures to prevent effects of these factors on the health.

PO.1.4.2. recognizes and **manages** the health determinants including conditions that prevent access to health care.

POD.1.5. Competencies related to Research

PO.1.5.1. develops, prepares and **presents** research projects

POD.1.6. Competencies related to Health Education and Counseling

PO.1.6.1. provides consultancy services and **organizes** health education for the community to sustain and promote the health of individual and community.

PODG.2. Professional Values and Perspectives

POD.2.1. Competencies related to Law and Legal Regulations

PO.2.1.1. performs medical practices in accordance with the legal framework which regulates the primary health care service.

POD.2.2. Competencies Related to Ethical Aspects of Medicine

PO.2.2.1. recognizes basic ethical principles completely, and **distinguishes** ethical and legal problems.

PO.2.2.2. pays importance to the rights of patient, patient's relatives and physicians, and **provides** services in this context.

POD.2.3. Competencies Related to Social and Behavioral Sciences

PO.2.3.1. relates historical, anthropological and philosophical evolution of medicine, with the current medical practice.

PO.2.3.2. recognizes the individual's behavior and attitudes and factors that determine the social dynamics of the community.

POD.2.4. Competencies Related to Social Awareness and Participation

PO.2.4.1. leads community with sense of responsibility, behavior and attitudes in consideration of individual behaviors and social dynamics of the community, and if there is a necessity, **develops** projects directed towards health care services.

POD.2.5. Competencies Related to Professional Attitudes and Behaviors

PO.2.5.1. displays a patient-centered and holistic (biopsychosocial) approach to patients and their problems.

PO.2.5.2. respects patients, colleagues and all stakeholders in health care delivery.

PO.2.5.3. displays the proper behavior in case of disadvantaged groups and situations in the community.

PO.2.5.4. takes responsibility for the development of patient safety and healthcare quality.

PO.2.5.6. evaluates own performance as open to criticism, **realizes** the qualifications and limitations.

PODG.3. Personal Development and Values

POD.3.1. Competencies Related to Lifelong Learning

PO.3.1.1. embraces the importance of lifelong self-learning and **implements**.

PO.3.1.2. embraces the importance of updating knowledge and skills; **searches** current advancements and **improves** own knowledge and skills.

PO.3.1.3. uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession.

POD.3.2. Competencies Related to Career Management

PO.3.2.1. recognizes and **investigates** postgraduate work domains and job opportunities.

PO.3.2.2. recognizes the application requirements to postgraduate work/job domains, and **distinguishes** and **plans** any requirement for further training and work experience.

PO.3.2.3. prepares a resume, and **recognizes** job interview methods.

POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health

PO.3.3.1. implements the rules of healthy living.

PO.3.3.2. displays appropriate behavior specific to work under stressful conditions.

PO.3.3.3. uses self-motivation factors.

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.

Phase II consists of five committees:

- COMMITTEE I Cardiovascular System (6 weeks)
- COMMITTEE II Respiratory System (6 weeks)
- COMMITTEE III Gastrointestinal System (7 weeks)
- COMMITTEE IV Nervous System (8 weeks)
- COMMITTEE V Endocrine and Urogenital Systems (8 weeks)

YEDITEPE UNIVERSITY FACULTY OF MEDICINE CURRICULUM OF PHASE II 2021-2022

CODE		SECOND YEAR	W	T	A	L	Y	E
MED	203	Basic Medical Sciences II	39					53
MED	202	Introduction to Clinical Practice II	39					5
MED	XXX	Free Elective Course ¹ (SS)	14					2
Total Credits								60

The curriculum applies to 2021-2022 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.

¹Free 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, 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,

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

T: Theoretical, A: Application , L: Laboratory, Y: Yeditepe University Credit, E: ECTS Credit	Minimum Degree Requirements	
NC: Non-Credit Course, FS: Fall Semester, SS: Spring Semester, W: Weeks.	ECTS	36 0
Approval Date:	Number of courses	53

* Please see https://med.yeditepe.edu.tr/sites/default/files/curriculum_2021-22_ytf_tr.docx for more information.

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 neoplasia 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 multi-system 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. 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 neoplasia 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 multi-system 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 laboratory technics and basic medical examination.
- 2.0 prepare a presentation of a scientific research

DESCRIPTION of INTRODUCTION to CLINICAL PRACTICE (ICP MED 102, 202, 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 the first and third year students while it has 4 ECTS for the second year students 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, develop skills in Basic Life Support, Patient/Casualty Transportation and Bandaging Techniques regarding to First Aid. They also acquire basic knowledge on communication and experience patient-doctor encounter with simulated patients (SP's)*.

The second years ICP Program consist of modules like handwashing, wearing sterile gloves, assessing vital signs, nasogastric intubation, bladder catheterization, intramuscular, subcutaneous, intradermal and intravenous injections as well as iv. catheterization.

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 provide transition of students from the classroom to standardized patient contact in safe environments.

Encounters with specially trained individuals, known as simulated patients (SPs), simulate specific cases in outpatient and emergency settings. The pool of SPs consist of adults, from various backgrounds.

Clinical cases are created through research and extensive training of the patients portraying these roles.

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 and group lists are announced in the 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 course coordinator. 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.

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 convey** hygienic skills (hand washing, sterile glove wearing) in working environment,
2. **To convey** measurement skills for basic vital findings,
3. **To equip with** basic interventional skills (nasogastric tube and urinary catheter application; intramuscular, intradermal and subcutaneous injection, intravenous cannulation).

LEARNING OBJECTIVES

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

KNOWLEDGE

1. **describe** the techniques of hand washing and sterile glove wearing in accordance with the skill procedure.
2. **describe** measurement of blood pressure with sphygmomanometer in adults in accordance with the skill procedure.
3. **count** nasogastric probe types, application indications, contraindications and the steps in application procedure.
4. **count** urinary catheter types, application indications, contraindications and the steps in application.
5. **count** application indications, contraindications and the steps in application procedure of intramuscular, intradermal and subcutaneous injections as well as intravenous cannulation.

SKILLS

1. **apply** hand washing and sterile glove wearing skill completely in accordance with the skill procedure.
2. **measure** blood pressure by adult sphygmomanometer completely in accordance with the skill procedure.
3. **perform** nasogastric probe application on an adult model in accordance with the skill procedure.
4. **perform** urinary catheter application in an adult woman and male model in accordance with the skill procedure.
5. **perform** intramuscular, intradermal and subcutaneous injection as well as intravenous cannulation applications in an adult model in accordance with the skill procedure.
6. **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
value the importance of not exceeding the limits of his/her own competency level.

AIM and LEARNING OBJECTIVES of SCIENTIFIC RESEARCH and PROJECT COURSE – II

AIM

The aim of Scientific Research and Project Course – II, is to equip second year medical students to discuss scientific articles in the view of literature and to make presentation of a scientific research.

ASSESSMENT PROCEDURE:

For the assessments of the medical students for the scientific research and project course - II, it is calculated out of 100 points; 25 points will be graded from abstract presentations, 62.5 points will be graded from whole article presentations and 12.5 points will be graded from your Small Group Study (SGS) performances.

The constraints of the small review assignment will be discussed in Small Group Study hours.

Scientific Research and Project Course-II course has 3% contribution to Term Score (TS).

The student list for small group studies will be announced during the first week of educational year. Please note that it is mandatory to attend to Small Group Study hours in the assigned group hours.

FREE ELECTIVE COURSES

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.

Code	Subject		
MED 611	Medical Anthropology		
Goals	This course aims to provide, different perspectives of medical issues according to anthropological holistic approach for medical students. To present how social science interprets concepts of health, sickness, illness and disease. To show how culture bound symptoms can vary from culture to culture. To discuss all health problems are universal or cultural and how anthropology describes medical phenomenon by theoretically and methodologically.		
Content	To explain that what is anthropology? What is medical anthropology? What is the relationships between social science and medical? Why we need to be explain some concepts according to perspectives of medical anthropology? The meaning of symptoms: cultural bound symptoms, the personal and social meaning of illness, the stigma and shame of illness, What is the positioning of medical doctors for patients and caregivers; Doctor-Patient relations, patients associations, Biological Citizenship, Medicalized Selves, Biopolitics.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • emphasize cultural patterns of health. • investigate how human behavior that lives in a society is affected by own cultural health patterns. • discuss case studies about how cultural phenomenon affects human and public health. • understand importance of health that is constructed within culture structure by human society. • examine universal definition of health "state of complete physical, mental and social well-being" culturally. • realize interaction between items of cultural system and health system basically; get into the level of knowledge, skills and attitudes 		
Assessment		NUMBER	PERCENTAGE
	Assignments	1	100
	Total	1	100

Code	Subject		
MED 612	Creative Drama		
Goals	The aim of this course is the development of independence, creativity, self-control and problem-solving potential and the development of communication skills of medical students by using drama and creativity through improvisation of exercises		
Content	Discovering, learning and teaching approaches that are student-centered in a curiosity focused setting with various cognitive and active learning styles.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • show drama skills in vocational areas benefiting from access to creativity, collaboration and empathy which are the ways of learning through play and improvisation. 		
Assessment		NUMBER	PERCENTAGE
	In-Term Performance	1	25
	Midterm	1	25
	Final Examination	1	50
	Total		100

Code	Subject
MED 613	Medical Humanities
Goals	This course aims to offer a wide variety of subjects related with art, history, cultural values, social movements, philosophy and many other areas. Main targets of this course are to improve Professionalism and Communication Skills and to support the students to develop an understanding about human and his interaction with universe.

Content	Main concepts of professionalism such as altruism, accountability, excellence, duty, honor and integrity, respect for others and communication skills will be covered through the lectures of history of medicine in an anthropological concept, medicine in literature and visual arts, and cinemeducation.		
Course Learning Outcomes	<p>At the end of this course, the student should be able to</p> <ul style="list-style-type: none"> • gain an understanding of the history of medicine as one of social and cultural transformation in the conception of professionalism, disease and what constitutes illness and health through the centuries. • develop the skills to write an essay using primary source documents in the context of the history of medicine. • gain view of different reflections of medicine in literature and visual arts. • develop a point of view to use literature and visual arts as an imagination instrument of compassion, to tolerate ambiguity, to dwell in paradox, to consider multiple points of view. • develop better observational and interpretive skills, by using the power of visual arts to elicit an emotional response in the observer. • gain understanding about the main values and various dimensions of professionalism. • gain insight about his/her own values and develop humanistic values. • develop a deeper understanding of human being in various contexts. • gain understanding about the various factors which influence health in individual and community level. • gain understanding to use films as a comprehensive guide in medical practice. • reflect through films to improve their cognitive and emotional awareness. 		
Assessment		NUMBER	PERCENTAGE
	Participation		10
	Assignments		40
	Reflective Writing	1	10
	Final Examination	1	40
	Total		100

Code	Subject		
MED 614	Personal Trademark Development		
Goals	The aim of this course is to equip the students with skills in creating personal image for successful business life and with appropriate behavior in social platforms.		
Content	Business Etiquette creation techniques and personal image methodologies with case studies.		
Course Learning Outcomes	At the end of this course, the student should be able to create personal brand for successful business life. use behavioral codes for business etiquette.		
Assessment		NUMBER	PERCENTAGE
	Participation	1	30
	Final Project	1	70
	Total		100

Code	Subject		
MED 615	Innovation Management		
Goals	The aim of this course is to convey to the students knowledge on innovative approaches for visionary life, describe the philosophy of futurism.		
Content	Strategies for futurism and applied case studies for personal innovation.		
Course Learning Outcomes	At the end of this course, the student should be able to use futuristic strategies to create innovative approaches. use innovative and creative thinking techniques in professional life.		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam	1	40
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	20
	Attendance and Participation (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)	1	10

	Final Project	1	30
	Total	8	100

Code	Subject		
MED 616	Medical Management and New Services Design Skills		
Goals	The aim of this course is to develop leadership skills to manage a team and organizational skills in the case of emergency and lack of crew. Moreover, empathy skills will be developed to create better relationship with the patients, coworkers and customers.		
Content	Leadership Styles, Skills needed in Med, Strategies for New Generation Leadership, Empathy Techniques, Problem Solving with Empathy, and Conciliation with Empathy.		
Course Learning Outcomes	At the end of this course, the student should be able to develop leadership skills to manage teams. use empathy techniques for conciliation with their patients and co-workers.		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam	1	30
	Project Assignment	1	30
	Final	1	40
	Total		100

Code	Subject		
MED 617	Personal Brandmark Management		
Goals	The aim of this course is to teach brand management, healthcare marketing and to explain the healthcare services management.		
Content	Healthcare marketing, Characteristics of health professionals and healthcare consumers, Initial barriers to healthcare marketing, healthcare markets, healthcare consumers, consumer behavior, factors in health services utilization, population health paradigm and management., branding as a strategy, brand equity, brand reputation management, and crises communications, strategies for managing brand equity, rebranding and repositioning, health communication, public relations, ethical and social responsibilities of healthcare marketing management in organizations and society.		
Course Learning Outcomes	At the end of this course, students will be aware of the basic concepts and issues in healthcare marketing; appreciate the necessity of healthcare marketing; understand the main responsibilities, capabilities and skills of managers; comprehend the strategic nature of healthcare marketing as of unique attributes of healthcare markets; the population health paradigm; branding as a strategy; health communication; public relations and emphasize the ethical and social responsibilities of healthcare marketing management in organizations and society.		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam	1	40
	Final Exam	1	60
	Total		100

Code	Subject		
MED 619	Entrepreneurship and Storytelling Techniques for Business Purposes		
Goals	This course aims to equip students with storytelling techniques to make smart decisions, communicate better, think creatively and use this modern technique to manage their professional relations.		
Content	Strategies for storytelling techniques and applications.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> use storytelling techniques in workplace to make decisions, communicate better and think creatively. 		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and	1	25

	applications of them on MED areas & discussions after each presentation)		
	Attendance (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	5	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		100

Code	Subject		
MED 620	Art, Culture and Life Styles		
Goals	Healthcare members will have high level social status for their business life; and will join several international conferences. This course aims to develop their social and intellectual skills to make them global citizens with art, culture, fashion and life style knowledge.		
Content	Life Style Coaching for participants, Cultural Festivals Through Europe, Art Exhibitions and Movements, Sportive Life Coaching.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • develop intellectual wealth and cultural knowledge. • change their life styles for better perspective. • increase quality of life. • establish work-life balance. 		
Assessment		NUMBER	PERCENTAGE
	Midterm	1	40
	Final Assignment	1	60
	Total		100

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

Code	Subject		
MED 622	Application of Economics in Health Care		
Goals	This course aims to teach the essentials of economics and its' core concepts' relevance with health-care.		
Content	Tools and concepts of traditional Microeconomics Theory, health production function, cost & benefit analysis, demand for health insurance and health care markets.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • explain the applications of micro-economic theories in health related areas. • discuss the causes of market failure. • list the factors effecting the demand for health. • explain health insurance supply and demand. • analyse how health care market operates. 		
Assessment		NUMBER	PERCENTAGE
	Mid-term Exam	1	35

	Quizzes, Homeworks		20
	Final		45
		Total	100

Code	Subject		
MED 623	Visual Presentation in Medicine		
Goals	This course aims to teach to design visual aids that are to be used in medical case presentations in computerized systems with Adobe CS Photoshop and Powerpoint programs.		
Content	Understanding of verbal & technological presentation methods/tools to be used in medical case presentations. Computerized design tools like Adobe CS Photoshop and PowerPoint will be taught in computer labs to participants.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • recognize and applies main design principles • design visual materials • use Adobe CS Photoshop and PowerPoint in basic level • manage the presentation program PowerPoint • perform visual designs and presents projects using these programs • criticize the images used in the media 		
Assessment		NUMBER	PERCENTAGE
	In-Term Draft Project Works	1	25
	Midterm	1	25
	Final Project	1	25
	Final Project Presentation	1	25
		Total	100

Code	Subject		
MED 627	Presentation of Medicine on Media		
Goals	This course aims to teach deep understanding to approaches & visual methods/tools available as community communication media in conveying medical knowledge. To analyze technical features and to develop an understanding of aesthetics behind. To develop skills in conveying messages presented via media tools.		
Content	Sensual and perceptual theories of visual communication. Analysis and reading the meaning of the images presented in the media as a PR tool.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • recognize the meaning of the visual literacy as intellectual property • describe the physical features of the light and theory of vision • analyze the images with the help of sensual and perceptual theories such as Gestalt, Constructivism, Semiology and Cognitive Approach. • recognize the differences between advertising, journalism and public relations. • describe the historical and cultural stereotypes used in the media • interpret images in the media (such as typography, graphic design, infographics, photography, TV, computer, internet) in technical, historical, cultural, ethical and critical aspects. 		
Assessment		NUMBER	PERCENTAGE
	Midterm	1	40
	Final	1	60
		Total	100

Code	Subject
MED 628	Healthy Living: The Milestones of the Life for Performance Management
Goals	This course aims to support fitness practices & dietary habits of healthy life style for medical students. To introduce techniques for reducing stress with healthy living habits. To highlight the importance of superior physical and mental health status for a better job performance.

Content	In the content of this course; understanding physiology of the physical activities, risks and benefits of the regular physical activities, using fitness training as a treatment technique, effects of physical activities to reduce stress, the relation between dietary habits and health will have quite importance.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • explain main exercise physiology • define main fitness terms • analyze main risks and benefits of exercising • relate health and eating habits • perform main fitness training techniques • manage the basic exercises necessary for healthy life • perform physical techniques which are frequently used in stress management • explain the relationship between health and nutrition • describe the principles of healthy eating • recognize exercise as a treatment method for common diseases in the community 		
Assessment		NUMBER	PERCENTAGE
	Midterm (reading and discussing article as a group study)	1	25
	Homework (exercise agenda)	1	25
	Final (Case discussion as a group study)	1	50
		Total	100

Code	Subject		
MED 629	Music and Medicine		
Goals	This course aims to convey the past and current uses and utilities of music in medicine.		
Content	The connection of music and medicine throughout the historical development of antiquity and Middle Ages up until today. The place of music in medical practice after the transformations in the Age of Enlightenment and beyond.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • explain the uses of medicine in the past and present. • describe the uses of music in clinical conditions, and before and after surgical treatment. • explain the effects of music before and after surgery • describe the types of music used in music therapy 		
Assessment		NUMBER	PERCENTAGE
	Midterm	1	30
	Attendance and Active Participation	1	25
	Final Project		45
		Total	100

Code	Subject		
MED 630	Health Law		
Goals	The aim of the course is that students obtain a legal rationale, take ethical decisions from a legal perspective, act in a respectful way to patients' rights, legal risks and responsibilities.		
Content	The basic concepts of law will be introduced with a view towards health law. The legal nature of medical interventions, concepts of malpractice and complication will be explained. The fundamentals and consequences of legal and criminal liability will be emphasized and medical interventions showing ethical, and legal characteristics will be evaluated from a legal point of view.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • analyze legislature and by-laws related to health law • distinguish branches and consequences of legal responsibility • in taking decisions about patients, help them to make their own decisions in a proper way by respecting their right to self-determination and their privacy. • take ethical decisions from a perspective of patients' rights and legal responsibility • identify legal risks in the developing areas of health law 		
Assessment		NUMBER	PERCENTAGE
	Presentation	1	40

	Final Assignment	1	60
		Total	100

Code	Subject		
MED 631	Creative Drama II		
Goals	This course aims the development of body awareness, improvement of communication skills of students by creating an atmosphere where the students can explore the potential of their emotional intelligence.		
Content	In this class, the students will be searching for their abilities for self-representation and being visible in society and going into an active learning process by experiencing image theatre, invisible theatre, newspaper theatre and forum theatre techniques		
Course Learning Outcomes	<p>At the end of this course, the student should be able to</p> <ul style="list-style-type: none"> • build supportive relationships in group by improving personal cooperating skills. • recognize personal awareness, • explain and review the schemes of personal attitude, thought and feeling by playing games and different roles. • improve critical and creative ways of thinking skills, also improve skills for life-long learning which will be useful for professional life as well as personal life. • explore being visible and expressing oneself in front of spectators using games and storytelling techniques. 		
Assessment		NUMBER	PERCENTAGE
	Midterm	1	25
	Performance evaluation	5	25
	Final EXAM		50
		Total	100

Code	Subject		
MED 632	Music Appreciation		
Goals	This course aims to clarify the structures underlying western classical music in order to understand and appreciate it consciously while considering a historical perspective. Furthermore it will enable the student to understand that it is the foundation of every genre (pop, rap, rock etc.) in western music culture.		
Content	The evolution of music starting as of medieval times, the birth of new musical rules and genres in the Renaissance and the Age of Enlightenment which in turn redefines the different usages of music and lies the foundation of modern compositional rules. The reflection of those in music genres of today.		
Course Learning Outcomes	<p>At the end of this course, the student should be able to</p> <ul style="list-style-type: none"> • define music's founding elements • explain the structural evolution of music within time • explain what the brain perceives under different conditions 		
Assessment		NUMBER	PERCENTAGE
	Midterm	1	30
	Attendance and Active Participation	1	25
	Final Project	1	45
	Total		100

Code	Subject		
MED 633	Communication with Hearing Impaired Patients in Turkish Sign Language		
Goals	The aim of this course is to convey to the students sign language skills and basic vocabulary in order to enable them to communicate with hearing impaired patients.		
Content	Short history of sign language, basic vocabulary, words, terminology and simple sentence building skills regarding patient doctor interview.		

Course Learning Outcomes	At the end of this course, the student should be able to		
	<ul style="list-style-type: none"> • tell the history of sign language • show the basic words in sign language • conduct patient doctor interview in sign language • understand the health problem of the hearing impaired patient • give information about the treatment in sign language • build sentences using basic vocabulary in sign language • develop personal characteristics such as compassion, tolerance for diversity and open mindedness • improve body language • gain understanding about the various factors which influence health in individual and community level 		
Assessment		NUMBER	PERCENTAGE
	Midterm	1	40
	Final Examination	1	60
	Total		100

Code	Subject		
MED 634	Case Based Forensic Sciences		
Goals	This course aims to increase the awareness of students about forensic cases by presenting them as real case presentations through forensic sciences, where some of the patients that they will examine routinely in their professional lives are forensic cases.		
Content	In each lecture, brief introduction information about one of the basic forensic sciences will be given, and with the help of this forensic science, how the case is elucidated and how the process is managed, will be explained in the lectures.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • give preliminary information about what the forensic sciences are, and their relationship with medicine and each other. • give examples an idea about the types of forensic cases they may encounter in their professional routine. • gain the awareness that every patient that they examine can turn into a forensic case. • explain the liability of healthcare professionals against forensic cases and what kind of problems both patients and healthcare professionals may encounter if they are omitted. • give preliminary information about the management process of the forensic case. • explain the importance of the holistic approach in the management of forensic cases • explain the importance of professionalization and coordination in forensic science. 		
Assessment		NUMBER	PERCENTAGE
	Assignments and Presentation	1	50
	Final EXAM	1	50
		Total	100

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 you do not have enough knowledge to understand and solve all the problems presented to you.

Here comes the aim of PBL: **you will thus recognize WHAT YOU DO NOT KNOW and WHAT YOU SHOULD LEARN.** In other words **you will identify your knowledge gaps and try to learn them.** These are called "learning objectives".

In order to facilitate and direct discussions and 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)
<i>Example</i>	<i>Example</i>	<i>Example</i>	<i>Example</i>
<i>Fever Cough Pallor</i>	<i>Throat infection Pneumonia Anemia</i>	<i>Throat examination Chest examination Chest X-ray Blood count</i>	<i>Causes of fever How is body temperature controlled? Anatomy of the throat Anatomy of lungs What is anemia?</i>

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.

Online PBL First session flow
● Introducing yourselves <i>(for the first session of the term)</i>
● Determination of group rules <i>(for the first session of the term) (Google Jamboard will be used.)</i>
● Introducing the PBL Student Assessment Form to the students <i>(for the first session of the semester) (It will be shown to the students by screen sharing by the tutor)</i>
● Warming Game
● Reader and writer selection
● Reading the scenario step by step <i>(The scenario will be displayed to the students by sharing the screen by the instructor.) (The next page will not be shared until the previous page is read and the related questions are answered by the students.) (The pages of the scenario will be shared sequentially in the Google Classroom as PDF.)</i>
● Discussion <i>(Writing hypotheses on Google Jamboard, bringing preliminary information to learning environment, reviewing hypotheses, etc.)</i>
● The tutor asks questions that lead students to their learning goals during the discussion <i>(these are questions written in the instructor's copy of the scenario).</i>
● Setting learning goals by students <i>(learning goals will be written on Google Jamboard by the writer)</i>
● Feedback <i>(each group member's thoughts about themselves, the group, scenario, the instructor, PBL flow, PBL setting, etc.)</i>
Online PBL Second session flow
● Warming Game
● Discussion of the learning objectives determined in the previous session <i>(via the Google Jamboard where the learning objectives were written in the previous session)</i>
● Reader selection
● Reading the scenario <i>(The second session of the scenario will be screen shared and displayed to the students by the tutor.)</i>
● Discussing the psychosocial dimension of the case
● Filling out Tutor Evaluation Form by the students
● Feedback <i>(each group member's thoughts about themselves, the group, scenario, the instructor, PBL flow, PBL setting, etc.)</i>

PBL STUDENT ASSESSMENT FORM*

Student Name							
Phase/Committee							
PBL Scenario Name							
Tutor Name							
INTERACTION WITH GROUP / PARTICIPATION TO GROUP	Not observed 0	Poor 1	Fair 2	Average 3	Good 4	Excellent 5	Total Point of the Part
1. Starts discussion							
2. Contributes with valid questions and ideas							
3. Balances listening and speaking roles							
4. Communicates effectively in group work							
GAINING KNOWLEDGE	Not observed 0	Poor 1	Fair 2	Average 3	Good 4	Excellent 5	Total Point of the Part
5. Determines valid learning issues							
6. Finds valid sources							
7. Makes independent research on learning issues							
8. Shows understanding of the concepts and relationships							
COMMUNICATION/SHARING KNOWLEDGE	Not observed 0	Poor 1	Fair 2	Average 3	Good 4	Excellent 5	Total Point of the Part
9. Selects data valid for discussion and presentation							
10. Expresses ideas and knowledge clearly and in an understandable way							
11. Draws figures, diagrams clearly and in an understandable way							
12. Has always some additional information or data to present whenever needed							
PROBLEM SOLVING AND CRITICAL THINKING	Not observed 0	Poor 1	Fair 2	Average 3	Good 4	Excellent 5	Total Point of the Part
13. Generates hypotheses independently							
14. Reviews hypotheses critically							
15. Integrates basic science and clinical concepts							
16. Describes the difference between normal and pathological conditions							
PROFESSIONAL ATTITUDE	Not observed 0	Poor 1	Fair 2	Average 3	Good 4	Excellent 5	Total Point of the Part
17. Is sensitive to psychosocial factors affecting patients							
18. Treats all group members as colleagues							
19. Accepts feedback properly							
20. Provides proper feedback to group members							
Total Score of the Student <input type="checkbox"/>							

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

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

Signature of the tutor

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

SPECIFIC SESSIONS / PANELS

Introductory Session

Aim of the session:

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

Objectives of the Session:

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

Rules of the Session:

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

Implementation of the Session:

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

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

Program Improvement Session

Aim:

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

Objectives:

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

Implementation:

Before the Session

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

During the Session

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

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

After the Session

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

INDEPENDENT LEARNING

Description:

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

What a student should do for learning independently?

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

Reminder: For further information about 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'

ASSESSMENT PROCEDURE

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

1.0. Exams:

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

2.0. Scores*:

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

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

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

Assessment Approaches	Assessment Methods	Question Types / Assessment Tools	Exams	Derived Scores
Knowledge-based Assessment	WE: Written Examination	MCQ: Multiple Choice Questions	CE, MTE, FE, ICE	CS, ICPS, FES, ICES, ECSs, SRPCS
		SbMCQ: Scenario-based MCQs	CE, MTE, FE, ICE	CS, ICPS, FES, ICES
		EQ: Essay Questions	CE	CS
		FSAQ: Fill-in-the-Blank Short Answer Questions	MUE	CS
Competency-based Assessment	OSCE: Objective Structured Clinical Examination	OSCE Checklist		ICPS
	OSPE: Objective Structured Practical Examination	OSPE Checklist		CS
	LPE: Laboratory Practical Exam	LPE Checklist		CS
Performance-based Assessment	PWPE: Review Writing and Presenting Evaluation	PWPE Checklist		ECSs
	AID: Anatomical Images Drawing			ADS
	PBL-P: Evaluation of PBL Student's Performance	PBL Student Evaluation Form		CS

Exams Information (MED 202, MED 203)	
CE	For the proportional correspondence of individual learning objectives, please see the committee's assessment matrix table/page.
MTE_{ICP}	MTE _{ICP} consists of MCQs to assess the theoretical part of the ICP program.
FE	FE consists of 200 MCQs. For the proportional contribution of each committee, please see the committee's question distribution table/page.
ICE	ICE consists of 200 MCQs. For the proportional contribution of each committee, please see the committee's question distribution table/page.
MUE_{IBS}	MUE will be held only twice in a term. MUE consists of FSAQs. The number of FSAQs is half of the relevant exam. MUE content will be developed by the coordination committees.

Scores Information (MED 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. Contribution of student's performance during PBL sessions to CSs of Committee II, III, IV and V is 5% .
CMS	= Average of CSs
ICPS	= (40% MTE _{ICP}) + (60% Final OSCE)
ADS	= (70% AID _{AD}) + (30% FE _{AD})
CCCSs	= Score information will be announced by Course Coordinator.
ECSs	= Score information is shown pages of Elective Courses in the APB.
SRPCS	= Score information is shown at the assessment page of Scientific Research and Projects
FES	= Final Exam Score
ICES	= Incomplete Exam Score
TS for students, <u>who are exempted from FE</u>	= 97% of CMS + 3% of SRPCS
TS for students, <u>who are not exempted from FE</u>	= 97% of (60% of CMS + 40% of FES or ICES) + 3% of SRPCS

Pass or Fail Calculations of the Courses	
Basic Medical Sciences I (MED 104)	
<i>Pass; TS ≥ 60</i>	
<i>Fail; FES < 50 (barrier point), ICES < 50 (barrier point), or/and TS < 60</i>	
<i>The student is <u>exempted from FE</u>, if the CMS is ≥ 80 and all CSs are ≥ 60</i>	
<i>The FE and ICE <u>barrier point is not applied</u> to the students whose all CSs are ≥ 60</i>	
Introduction to Clinical Practice I (MED 102)	
<i>Pass; ICPS ≥ 60</i>	
<i>Fail; ICPS < 60</i>	
Anatomical Drawing (MED 103)	
<i>Pass; ADS ≥ 60</i>	
<i>Fail; ADS < 60</i>	

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 616, MED 619, MED 620, MED 623, MED 627, MED 628, MED 632, MED 633)

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

Definitions of the Assessment Methods and Question Types

MCQ consist 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 questions. That they test knowledge in a far more applied, in depth, sense. SbMCQ is based on a clinical, research or daily life scenario.

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

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

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

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

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

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

Grades

A letter grade is given to the students as a success grade, from the numerical values of the grades given by the relevant teaching staff for each course they take, taking into account the practice, laboratory and similar studies in the semester and examinations and academic activities.

Grades and Letter grades are shown for MED coded courses* in the following table:

Grades	Letter Grades
90-100	AA
80-89	BA
70-79	BB
65-69	CB
60-64	CC
59 or less	FF (Fail in the context of "Pass or Fail Calculations of the Courses" table pp.31)
0	FA (Fail due to nonattendance to the courses)

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

EXAM RULES

- **Seating-** Students will be seated by the exam observers or proctors. Students are not allowed to change their seats without permission.
- **Electronics** – During examinations or tests, students are prohibited from using electronic devices or any other means of communication and recording that have not been approved beforehand. All electronic devices are prohibited. Anyone who fails to comply with these regulations may be charged with academic fraud.
- **Absence** – No additional time will be given to students who are absent for part of the exam, regardless of the reason for their absence.
- **Scratch Paper** – Students are not allowed to bring scratch paper into the exam room.
- **Meaning of Questions** – Students may not consult the supervisor as to the meaning of any question.
- **Signature** – Students must sign their multiple-choice answer sheets and/or written-answer sheets.
- **Other activities requiring disciplinary action-**
 - Students must not give or receive assistance of any kind during the exam.
 - Gaining access to exam questions before the exam.
 - Using an unauthorized calculator or other mechanical aid that is not permitted.
 - Looking in the exam book before the signal to begin is given.
 - Marking or otherwise writing on the exam book or answer sheet before the signal to begin is given.
 - Making any changes, additions, deletions or other marking, erasing or writing on the exam book or answer sheet after the time for the exam has expired.
 - Having access to or consulting notes or books during the exam.
 - Looking at or copying from another student's paper.
 - Enabling another student to copy from one's paper.
 - Talking or otherwise communicating with another student during the exam or during the read through period.
 - Disturbing other students during the exam.
 - Consulting other persons or resources outside the exam room during the exam.
 - Copying questions or answers either on paper or with an electronic device to take from the exam room.
 - Taking an exam book or other exam materials from the exam room.
 - Taking an exam in place of another student.
 - Arranging to have another person take an exam for the student.
 - Disobeying to the conduct of supervisor during the exam.
 - Disclosing the contents of an exam to any other person.
 - Failing to remain in the exam room for a given period of time by the supervisors.
 - Failing to follow other exam instructions.

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

WEEKLY COURSE SCHEDULE and LOCATIONS* (MED 203, MED 202)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-09:50	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)
10:00-10:50	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)
11:00-11:50	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)
12:00-12:50	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 310)	MED 203 (B 311)
13:00-13:50					
14:00-14:50	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 202**** (Base Floor 442)	Elective Course (SPRING)
15:00-15:50	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 202**** (Base Floor 442)	Elective Course (SPRING)
16:00-16:50	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 202**** (Base Floor 442)	Elective Course (SPRING)
17:00-17:50	MED 203 (B 311)	MED 203 (B 311)	MED 203 (B 311)	MED 202**** (Base Floor 442)	Elective Course (SPRING))

COURSE CODES:

MED 203

COURSES and LOCATIONS

Basic Medical Sciences II (B 311) or Laboratories**

MED 202

Introduction to Clinical Practice II (CSL)*** or (B 311)

ELECTIVE COURSES CODES:

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 617 Personal Brandmark Management

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

CLASSES

B 311

Ground Floor

Elective Course Classes

Will be announced later

*All these places will be used during the next face to face education process

** MED 203 Laboratory sessions will be held at the laboratories of related departments:

Physiology Laboratory: Room Number 448, Base 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.**

****** CSL will be held on Thursday or/and Friday during fall semester, and Wednesday or /and Thursday during spring semester**

ACADEMIC CALENDAR 2021 – 2022

MED 203 BASIC MEDICAL SCIENCES II

COMMITTEE I CARDIOVASCULAR SYSTEM (6 Weeks)

Beginning of Committee: September 12, 2021 Monday
End of Committee: October 22, 2021 Friday
Committee Exam: October 18-22, 2021 (Theoretical and Practical Exams)
Committee Exam Discussion: October 22, 2021 Friday

COMMITTEE II RESPIRATORY SYSTEM (6 Weeks)

Beginning of Committee: October 25, 2021 Monday
End of Committee: December 3, 2021 Friday
Committee Exam: November 29-December 3, 2021 (Theoretical and Practical Exams)
Committee Exam Discussion: December 25, 2020 Friday
National Holiday: October: 29, 2021 Friday
Commemoration of Atatürk: November 10, 2021

COMMITTEE III GASTROINTESTINAL SYSTEM (7 Weeks)

Beginning of Committee: December 6, 2021 Monday
End of Committee: January 21, 2022 Friday
Committee Exam: January 17-21, 2022 (Theoretical and Practical Exams)
Committee Exam Discussion: January 21, 2022
New Year: January 1, 2021 Friday

MIDTERM BREAK: JANUARY 24- FEBRUARY 4 2022

COMMITTEE IV NERVOUS SYSTEM (8 Weeks)

Beginning of Committee: February 7, 2022 Monday
End of Committee: April 1, 2022 Friday
Committee Exam: March 28-April 1, 2022 (Theoretical and Practical Exams)
Committee Exam Discussion: April 1, 2022 Friday
Physicians' Day: March 14, 2022, Monday
National Holiday: April 23, 2022, Saturday

COMMITTEE V ENDOCRINE and UROGENITAL SYSTEMS (8 Weeks)

Beginning of Committee: April 4, 2022 Monday
End of Committee: June 3, 2022 Friday
Committee Exam: 30 May, June 3, 2022 (Theoretical and Practical Exams)
Committee Exam Discussion: June 3, 2022 Friday
Labor's Day: May 1, 2022 Saturday
Feast of Ramadan: May 2-4, 2022
National Holiday: May 19, 2022 Thursday

Make-up Exam: June 12-14, 2022 Monday-Wednesday
Final Exam: July 1, 2022 Friday
Incomplete Exam: July 20, 2022 Wednesday

ELECTIVE COURSES-Spring 2020-2021

Introduction to Elective Courses	December 6, 2021	Thursday
Beginning of Elective Courses	February 11, 2022	Friday
Midterm Exam	March 25, 2022	Friday
Make-up Exam	May 23-27, 2022	Monday-Friday
Final Exam	June 6-17, 2022	Monday-Friday
Incomplete Exam	June 20-July 1, 2022	Monday-Tuesday

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

Midterm Exam:	February 11, 2022	Friday
Make-up Exam:	June 3, 2022	Friday
Final Exam:	June 7-9, 2022	Tuesday-Thursday
Incomplete Exam:	June 24, 2021	Friday

THE COORDINATION COMMITTEE MEETINGS

1 st Coordination Committee Meeting:	October 19, 2021	Tuesday
2 nd Coordination Committee Meeting: (With student participation)	January 11, 2022	Tuesday
3 rd Coordination Committee Meeting: (With student participation)	May 24, 2022	Tuesday
4 th Coordination Committee Meeting:	July 5, 2022	Tuesday

RECOMMENDED TEXTBOOKS

NO	DEPARTMENT	TEXTBOOK	AUTHOR	PUBLISHER
1	ANATOMY	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
		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
2	BIOCHEMISTRY	Textbook of Biochemistry with Clinical Correlations	Thomas M. Devlin	Wiley-Liss Publishing Company
		Harper's Illustrated Biochemistry	Robert K. Murray et al	Mc-Graw-Hill Companies
		Lehninger Principles of Biochemistry	David L. Nelson, Michael M. Cox	W.H. Freeman Publishing Company
3	BIOPHYSICS	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 th Ed.	Anthony Mescher	Mc-Graw-Hill Companies
	EMBRYOLOGY	The Developing Human: Clinically Oriented Embryology, 10 th Ed.	Keith L. Moore & T. V. N. Persaud	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
10	PHARMACOLOGY	Goodman & Gilman's The Pharmacological Basis of Therapeutics	L.L. Brunton ed.	McGraw-Hill, New York,
		Basic and Clinical Pharmacology	B. G. Katzung	McGraw-Hill, New York
		Principles of Pharmacology	Golan, D.E et al	Lippincott Williams & Wilkins
11	PHYSIOLOGY	Guyton and Hall Textbook of Medical Physiology	John E. Hall, 13th Edition, 2016	Saunders
		Medical Physiology	Walter F. Boron, Emile L. Boulpaep 3rd Edition, 2016	Elsevier
		Human Physiology	Stuart Ira Fox, 14th Edition, 2015	McGraw-Hill Education

COMMITTEE I - CARDIOVASCULAR SYSTEM

DISTRIBUTION of LECTURE HOURS

September 13 - October 22, 2021

COMMITTEE DURATION: 6 WEEKS

MED 203	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	TOTAL
	DISCIPLINE			
	ANATOMY	13	5Grx2H	23
	BIOCHEMISTRY	12	2H	14
	BIOPHYSICS	8	0	8
	BIOSTATISTICS	2	0	2
	HISTOLOGY & EMBRYOLOGY	11	5Grx2H	21
	IMMUNOLOGY	3	0	3
	MEDICAL BIOLOGY	4	0	4
	MEDICAL MICROBIOLOGY	9	10GrX1H	19
	PATHOLOGY	7	0	7
	PHYSIOLOGY	34	10 GrX1H 1GX2H 1GX1H	47
	SCIENTIFIC RESEARCH and PROJECT COURSE-II	2	5GrX3H	17
	PBL	6	0	6
	TOTAL	110	60	169
	INDEPENDENT LEARNING HOURS	75		

OTHER COURSES

MED 202	INTRODUCTION to CLINICAL PRACTICE- II	1H	5 GrX 3H	16
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Coordination Committee	Head	Bayram YILMAZ, PhD, Prof.
	Secretary	Alev CUMBUL, PhD, Assist. Prof.
	Member	Mehtap KAÇAR, MD, PhD, Prof.
	Member	Akif MAHARRAMOV, PhD, Assist. Prof.

COMMITTEE I - CARDIOVASCULAR SYSTEM AIM and LEARNING OBJECTIVES

AIMS

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, student should be able to:

- 1.0. 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. Describe of development of Neck and Pharyngeal Archs and Anomalies
- 6.0. For cardiovascular system;
 - 6.1. explain developmental stages of heart,
 - 6.2. explain developmental stages of arteries, veins and capillaries,
 - 6.3. associate the relation between major birth abnormalities and developmental process.
 - 6.4. explain the histological properties of heart
 - 6.5. explain the histological features of arteries, veins and capillaries
- 7.0. For lymphoreticular System and blood
 - 7.1. explain the histological properties of Lymph organs
 - 7.2. 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 cardiovascular system.
- 15.0. explain functions of cardiovascular system.
- 16.0. explain functions and dynamics of 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 For human flora;
 - 29.1 describe the flora,
 - 29.2 explain its relation to clinical conditions.
- 30.0 describe the structural/biological features and pathogenesis of fungi.
- 31.0 explain case scenario related basic medical science topics in a clinical context.

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

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	IE	TOTAL
3.0-4.0, 31.0	ANATOMY	Dr. A. Panteli	14	5	5	24
8.0-10.0, 31.0	BIOCHEMISTRY	Dr. İ. Özden	11	4	4	19
1.0	BIOPHYSICS	Dr. A. Maharramov	9	4	4	17
28.0	BIOSTATISTICS	Dr. Ç. Keleş	2	1	1	4
	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar	6	2	2	10
5.0-7.0, 31.0		Dr. A. Cumbul	4	2	2	8
18.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	3	1	1	5
2.0	MEDICAL BIOLOGY	Dr. T. İsbir Dr. D. Kıraç	4	1	1	6
29.0-30.0, 31.0	MEDICAL MICROBIOLOGY	Dr. Pınar Çırağil Dr. Nilgün Çerikçioğlu	8	3	3	14
19.0-25.0, 31.0	PATHOLOGY	Dr. A. Sav	6	3	3	12
8.0-17.0, 31.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar Dr. B. Gemici Başol	32	12	12	56
31.0	PBL		1	0	0	1
TOTAL			100	38/200#	38/200#	176
LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS				
		LPE				
3.0-4.0	ANATOMY	30				
8.0-10.0	BIOCHEMISTRY	5				
5.0-6.0	HISTOLOGY & EMBRYOLOGY	15				
29.0-30.0	MEDICAL MICROBIOLOGY	10				
8.0- 17.0	PHYSIOLOGY	40				
TOTAL		100				

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, **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
DISTRIBUTION of LECTURE HOURS
September 13 - October 22, 2021
COMMITTEE DURATION: 6 WEEKS

MED 203	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	TOTAL
	DISCIPLINE			
	ANATOMY	13	5Grx2H	23
	BIOCHEMISTRY	12	2H	14
	BIOPHYSICS	8	0	8
	BIOSTATISTICS	2	0	2
	HISTOLOGY & EMBRYOLOGY	11	5Grx2H	21
	IMMUNOLOGY	3	0	3
	MEDICAL BIOLOGY	4	0	4
	MEDICAL MICROBIOLOGY	9	10GrX1H	19
	PATHOLOGY	7	0	7
	PHYSIOLOGY	34	10 Grx1H 2H 1H	47
	SCIENTIFIC RESEARCH and PROJECT COURSE-II	2	5GrX3H	17
	PBL	6	0	6
	TOTAL	110	60	169
	INDEPENDENT LEARNING HOURS	75		

OTHER COURSES

MED 202	INTRODUCTION to CLINICAL PRACTICE- II	5H	5 GrX 3H	20
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Coordination Committee	Head	Bayram YILMAZ, PhD, Prof.
	Secretary	Alev CUMBUL, PhD, Assist. Prof.
	Member	Mehtap KAÇAR, MD, PhD, Prof.
	Member	Akif MAHARRAMOV, PhD, Assist. Prof.

COMMITTEE I - CARDIOVASCULAR SYSTEM
AIM and LEARNING OBJECTIVES

AIMS

8. To convey knowledge about biophysical, biological, anatomical, embryological, histological, physiological and biochemical properties of cardiovascular system,
9. To convey knowledge on hemodynamics of cardiovascular system,
10. To convey information about electrical activity and functional activity of heart by defining all basic parameters,
11. To convey information about cardiovascular system anatomy
12. To convey basic, general knowledge about immunology,
13. To convey basic, general knowledge about microbiology and information about the structural/biological features and pathogenesis of fungi,
14. To convey basic knowledge about biostatistics.

LEARNING OBJECTIVES

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

- 18.0. For cardiovascular systems;
 - 18.1. explain biophysical changes,
 - 18.2. associate with the clinical reflections.
 - 18.3. to convey basic knowledge about biostatistics
- 19.0. For cardiovascular system;
 - 19.1. explain biological characteristics of the system,
 - 19.2. associate with the clinical reflections.
- 20.0. For cardiovascular system;
 - 20.1. describe their anatomy,
 - 20.2. associate with adjacent tissues and organs,
 - 20.3. explain their functional and clinical reflections.
- 21.0. For thorax and diaphragm
 - 21.1. describe their anatomy,
 - 21.2. associate with adjacent tissue and organs,
 - 21.3. explain their functional and clinical reflections.
- 22.0. Describe of development of Neck and Pharyngeal Archs and Anomalies
- 23.0. For cardiovascular system;
 - 23.1. explain developmental stages of heart,
 - 23.2. explain developmental stages of arteries, veins and capillaries,
 - 23.3. associate the relation between major birth abnormalities and developmental process.
 - 23.4. explain the histological properties of heart
 - 23.5. explain the histological features of arteries, veins and capillaries
- 24.0. For lymphoreticular System and blood
 - 24.1. explain the histological properties of Lymph organs
 - 24.2. explain the histological features of Blood
- 25.0. explain hemodynamics of cardiovascular system and electrical activity of heart by biophysical mechanisms.
- 26.0. describe the structure, functions, synthesis and degradation of hemoglobin.
- 27.0. describe erythrocyte-specific metabolisms.
- 28.0. describe formation, differentiation and functions of blood cells.
- 29.0. describe physiopathology of diseases, such as anemia, leukemia, hemophilia.
- 30.0. describe heart rhythm, cardiac output and cardiac cycle.
- 31.0. describe nervous (autonomous) control of cardiovascular system.
- 32.0. explain functions of cardiovascular system.
- 33.0. explain functions and dynamics of circulatory system.
- 34.0. explain measurements of hematocrit, blood group analysis, blood pressure and ECG methods.
- 32.0 For immune system;
 - 32.1 explain development and differentiation of immune cells,
 - 32.2 relate changes with diseases,
 - 32.3 describe the properties of immune response.
- 33.0 For hemodynamic changes;
 - 33.1 explain mechanisms of development,
 - 33.2 describe mechanisms for cellular damage,
 - 33.3 describe pathologies occurring due to cell and tissue damage.
- 34.0 describe the factors that determine pathology as a basic science.

- 35.0 explain the factors of tissue damage
- 36.0 describe the pathological consequences and interactions of cellular injury on the cell and tissue morphology with examples.
- 37.0 describe examples of pathological consequences of immune response.
- 38.0 explain the factors that affect the clinical course and outcome of cell injury
- 39.0 list disorders resulting from hemodynamic changes.
- 40.0 describe how to discuss scientific articles in the view of literature
- 41.0 prepare a presentation of scientific research
- 42.0 for statistical decision
 - 42.1 lists the types of the statistical hypothesis.
 - 42.2 lists the types of errors in statistical decision making
 - 42.3 explain the steps of a statistical hypothesis test
- 43.0 For human flora;
 - 29.1 describe the flora,
 - 29.2 explain its relation to clinical conditions.
- 44.0 describe the structural/biological features and pathogenesis of fungi.
- 45.0 explain case scenario related basic medical science topics in a clinical context.

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

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	IE	TOTAL
3.0-4.0, 31.0	ANATOMY	Dr. A. Panteli	14	5	5	24
8.0-10.0, 31.0	BIOCHEMISTRY	Dr. İ. Özden	11	4	4	19
1.0	BIOPHYSICS	Dr. A. Maharramov	9	4	4	17
28.0	BIOSTATISTICS	Dr. Ç. Keleş	2	1	1	4
	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar	6	2	2	10
5.0-7.0, 31.0		Dr. A. Cumbul	4	2	2	8
18.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	3	1	1	5
2.0	MEDICAL BIOLOGY	Dr. T. İsbir Dr. D. Kıraç	4	1	1	6
29.0-30.0, 31.0	MEDICAL MICROBIOLOGY	Dr. Pınar Çırağil Dr. Nilgün Çerikçioğlu	8	3	3	14
19.0-25.0, 31.0	PATHOLOGY	Dr. A. Sav	6	3	3	12
8.0-17.0, 31.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar Dr. B. Gemici Başol	32	12	12	56
31.0	PBL		1	0	0	1
TOTAL			100	38/200#	38/200#	176
LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS				
		LPE				
3.0-4.0	ANATOMY	30				
8.0-10.0	BIOCHEMISTRY	5				
5.0-6.0	HISTOLOGY & EMBRYOLOGY	15				
29.0-30.0	MEDICAL MICROBIOLOGY	10				
8.0- 17.0	PHYSIOLOGY	40				
TOTAL		100				

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: Scienario-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, **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 / 13– 17 Sep 2021 (Group 1 Online, Group 2 Online)

	Monday 13-Sep-2021	Tuesday 14-Sep-2021	Wednesday 15-Sep-2021	Thursday 16-Sep-2021	Friday 17-Sep-2021
09.00- 09.50	Independent Learning	Lecture Functions of Hemoglobin <i>Inci Özden</i>	Lecture Porphin, Porphyrins, Heme, Hemoglobin, Structure of Hemoglobin <i>Inci Özden</i>	Independent Learning	Lecture Synthesis of Hemoglobin, Disorders Concerning Synthesis of Hemoglobin <i>Inci Özden</i>
10.00- 10.50	Introductory Session Introduction to Phase II Phase II Coordination Committee/ Introduction to Committee I Secretary of Committee	Lecture Functions of Hemoglobin <i>Inci Özden</i>	Lecture Porphin, Porphyrins, Heme, Hemoglobin, Structure of Hemoglobin <i>Inci Özden</i>	Lecture <i>Introduction to Pathology</i> <i>Aydın Sav</i>	Lecture Synthesis of Hemoglobin, Disorders Concerning Synthesis of Hemoglobin <i>Inci Özden</i>
11.00- 11.50	Lecture Introduction to Cardiovascular System <i>Aikaterini Panteli</i>	Lecture Chambers of the Heart <i>Aikaterini Panteli</i>	Lecture Leucocyte Circulation and Migration into Tissue <i>Gülderen Yanıkkaya Demirel</i>	Lecture Histology of Circulatory Systems; Gn Spec. Arteries <i>Aylin Yaba Uçar</i>	Lecture Great Vessels of the Heart <i>Aikaterini Panteli</i>
12.00- 12.50	Lecture Pericardium and Outer Surface of the Heart <i>Aikaterini Panteli</i>	Lecture Chambers of the Heart <i>Aikaterini Panteli</i>	Lecture Functions of Blood <i>Burcu Gemici Başol</i>	Lecture Histology of Circulatory Systems; Capillaries & Veins <i>Aylin Yaba Uçar</i>	Lecture Major Vessels of the Body <i>Aikaterini Panteli</i>
13.00- 13.50	Lunch Break				
14.00- 14.50	Lecture Introduction to Medical Microbiology <i>Pınar Çiragil</i>	Lecture / Scientific Research and Project Course - II Presentation of Scientific Research <i>Deniz Kıraç</i>	Lecture Introduction to the First Aid Programmes <i>Gökhan Gencer</i>	Lecture Erythrocyte <i>Burcu Gemici Başol</i>	Lecture Leukocytes <i>Burcu Gemici Başol</i>
15.00- 15.50	Lecture Sterilization and Disinfection <i>Pınar Çiragil</i>	Lecture / Scientific Research and Project Course - II Presentation of Scientific Research <i>Deniz Kıraç</i>	Lecture Basic Human Body <i>Gökhan Gencer</i>	Lecture Erythrocyte <i>Burcu Gemici Başol</i>	Lecture Leukocytes & Lymphocytes <i>Burcu Gemici Başol</i>
16.00- 16.50	Lecture Thoracic Cavity & Mediastinum <i>Aikaterini Panteli</i>	Independent Learning	Independent Learning	Lecture Scene Assessment <i>Gökhan Gencer</i>	Lecture Introduction to Bioelectromagnetics Magnetic Field <i>Akif Maharramov</i>
17.00-17.50	Lecture Thoracic Cavity & Mediastinum <i>Aikaterini Panteli</i>	Independent Learning	Independent Learning	Independent Learning	Lecture Introduction to Bioelectromagnetics Electric Field <i>Akif Maharramov</i>

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

COMMITTEE I - CARDIOVASCULAR SYSTEM
II. WEEK / 20– 24 Sep 2021 (Group 1 Face to Face, Group 2 Online)

	Monday 20-Sep-2021	Tuesday 21-Sep-2021	Wednesday 22-Sep-2021	Thursday 23-Sep-2021	Friday 24-Sep-2021
09.00- 09.50	Independent Learning	Lecture Regulation of Cardiac Function <i>Bayram Yilmaz</i>	Lecture Blood Types and Transfusion Reactions <i>Bayram Yilmaz</i>	Lecture Rhythmical Excitation of the Heart <i>Bayram Yilmaz</i>	Laboratory / Anatomy Pericardium, Outer Surface, Chambers / Coronary Arteries And Cardiac Veins/ Great Vessels Of The Heart <i>Aikaterini Panteli</i> Group 1
10.00- 10.50	Independent Learning	Lecture Regulation of Cardiac Function <i>Bayram Yilmaz</i>	Lecture Blood Types and Transfusion Reactions <i>Bayram Yilmaz</i>	Lecture Rhythmical Excitation of the Heart <i>Bayram Yilmaz</i>	Group 2
11.00- 11.50	Lecture Coronary arteries, Cardiac Veins, and Cardiac Conduction System <i>Aikaterini Panteli</i>	Lecture Histology of Lymph Organs; General Aspects, Thymus and Lymph Node <i>Aylin Yaba Uçar</i>	Independent Learning	Lecture Congenital Heart Anomalies <i>Alev Cumbul</i>	Group 3
12.00- 12.50	Lecture Coronary arteries, Cardiac Veins, and Cardiac Conduction System <i>Aikaterini Panteli</i>	Lecture Histology of Lymph Organs; Spleen and MALT (Tonsils) <i>Aylin Yaba Uçar</i>	Independent Learning	Independent Learning	Group 4
13.00- 13.50	Lunch Break				
14.00- 14.50	Lecture Adaptations <i>Aydın Sav</i>	Lecture Platelets and Coagulation <i>Mehtap Kaçar</i>	Lecture Development of Circulatory Systems; Endocardial Tube Formation & Looping <i>Alev Cumbul</i>	Laboratory / Physiology Hematocrit Determination and Blood Typing & Bleeding Time <i>Bayram Yilmaz & Mehtap Kaçar & Burcu Gemici Başol</i>	ICP / CSL: Basic Life Support and Heimlich Maneuver <i>Gökhan Gencer Cem Şimşek</i> Group A
15.00- 15.50	Lecture Adaptations <i>Aydın Sav</i>	Lecture Platelets and Coagulation <i>Mehtap Kaçar</i>	Lecture Development of Circulatory Systems; Septation <i>Alev Cumbul</i>	Laboratory / Physiology Hematocrit Determination and Blood Typing & Bleeding Time <i>Bayram Yilmaz & Mehtap Kaçar & Burcu Gemici Başol</i>	Gökhan Gencer Cem Şimşek Group A
16.00- 16.50	Independent Learning	Lecture Introduction to Lymphatic System <i>Aikaterini Panteli</i>	Lecture Basic Life Support and Heimlich Maneuver <i>Gökhan Gencer</i>	Independent Learning	SRPC SGS Group B <i>Deniz Kırac</i>
17.00-17.50	Independent Learning	Lecture Circulation of Lymph <i>Aikaterini Panteli</i>	Lecture Basic Life Support and Heimlich Maneuver <i>Gökhan Gencer</i>	Independent Learning	SRPC SGS Group B <i>Deniz Kırac</i>

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

COMMITTEE I - CARDIOVASCULAR SYSTEM
III. WEEK / 27 Sep– 01 Oct 2021 (Group 1 Online, Group 2 Face to Face)

	Monday 27-Sep-2021	Tuesday 28-Sep-2021	Wednesday 29-Sep-2021	Thursday 30-Sep-2021	Friday 01-Oct-2021	
09.00- 09.50	PBL Session	Lecture Cardiac Arrhythmias <i>Bayram Yılmaz</i>	Lecture Principles of Electrocardiography <i>Bayram Yılmaz</i>	Lecture Microcirculation and the Lymphatic System <i>Bayram Yılmaz</i>	Lecture Hyperemia & Congestion <i>Aydın Sav</i>	
10.00- 10.50		Lecture Cardiac Arrhythmias <i>Bayram Yılmaz</i>	Lecture Electrocardiographic Interpretation of Cardiac Abnormalities <i>Bayram Yılmaz</i>	Lecture Capillary Fluid Exchange, Interstitial Fluid, and Lymph Flow <i>Bayram Yılmaz</i>	Lecture Hyperemia & Congestion <i>Aydın Sav</i>	
11.00- 11.50		Lecture Sampling, Data Collection and Data Processing <i>E. Çiğdem Keleş</i>	Lecture Development of Head; Splanchnocranium, Neurocranium <i>Aylin Yaba Uçar</i>	Lecture Biophysics of Hemodynamics <i>Akif Maharramov</i>	Lecture Nervous Regulation of the Circulation <i>Bayram Yılmaz</i>	
12.00- 12.50	Independent Learning	Lecture Statistical Decision Theory, Test of Hypothesis and Significance <i>E. Çiğdem Keleş</i>	Lecture Development of Neck; Pharyngeal Arches and Anomalies <i>Aylin Yaba Uçar</i>	Lecture Measurements of Different Hemodynamic Parameters <i>Akif Maharramov</i>	Lecture Nervous Regulation of the Circulation <i>Bayram Yılmaz</i>	
13.00- 13.50	Lunch Break					
14.00- 14.50	Lecture Biological Basis of Cardiovascular Diseases; Death Begets Failure in the Heart <i>Turgay İsbir</i>	Independent Learning	Lecture Degradation of Hemoglobin <i>İnci Özden</i>	ICP / CSL: Basic Life Support and Heimlich Maneuver <i>Gökhan Gencer Cem Şimşek</i> Group B		
15.00- 15.50	Lecture Biological Basis of Cardiovascular Diseases; Death Begets Failure in the Heart <i>Turgay İsbir</i>	Lecture Fetal Circulation <i>Aikaterini Panteli</i>	Lecture Degradation of Hemoglobin <i>İnci Özden</i>	<i>Gökhan Gencer Cem Şimşek</i> Group B	SRPC SGS Group C <i>Deniz Kıraç</i>	Lecture Principles of Hemodynamics <i>Burcu Gemici Başol</i>
16.00-16.50	Lecture Hemorheology <i>Akif Maharramov</i>	Lecture Introduction to Bioelectromagnetics: Electromagnetic Field <i>Akif Maharramov</i>	Lecture Immunology of Heart and Vessels <i>Gülderen Yanıkkaya Demirel</i>			Independent Learning
17.00-17.50	Lecture Hemorheology <i>Akif Maharramov</i>	Lecture Bioelectromagnetic Effects on the Heart <i>Akif Maharramov</i>	Lecture Immunology of Heart and Vessels <i>Gülderen Yanıkkaya Demirel</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 / 04 – 08 Oct 2021 (Group 1 Face to Face, Group 2 Online)

	Monday 04-Oct-2021	Tuesday 05-Oct-2021	Wednesday 06-Oct-2021	Thursday 07-Oct-2021	Friday 08-Oct-2021
09.00- 09.50	PBL Session	Lecture Oxygen, Oxidative Stress, NO, Redox Disequilibrium in the Failing Heart and Cardiovascular System <i>Deniz Kırac</i>	Lecture Blood Coagulation, Primary Hemostasis <i>İnci Özden</i>	Lecture Circulatory Shock and Physiology of Its Treatment <i>Mehtap Kaçar</i>	Lecture Local and Humoral Control of Blood Flow by the Tissues <i>Bayram Yılmaz</i>
10.00- 10.50		Lecture Oxygen, Oxidative Stress, NO, Redox Disequilibrium in the Failing Heart and Cardiovascular System <i>Deniz Kırac</i>	Lecture Secondary Hemostasis, Procoagulation, Anticoagulation, Fibrinolysis <i>İnci Özden</i>	Lecture Cardiac Failure <i>Mehtap Kaçar</i>	Lecture Local and Humoral Control of Blood Flow by the Tissues <i>Bayram Yılmaz</i>
11.00- 11.50		Lecture Vascular Distensibility and Functions of Arterial and Venous Systems <i>Bayram Yılmaz</i>	Lecture Heart Valves and Heart Sounds <i>Bayram Yılmaz</i>	Lecture Development of Circulatory Systems; Arteries and Anomalies <i>Alev Cumbul</i>	Laboratory / Histology & Embryology Histology of Cardiovascular System <i>Alev Cumbul & Aylin Yaba Uçar</i> Group A
12.00- 12.50	Independent Learning	Lecture Vascular Distensibility and Functions of Arterial and Venous Systems <i>Bayram Yılmaz</i>	Lecture Heart Valves and Heart Sounds <i>Bayram Yılmaz</i>	Lecture Development of Circulatory Systems; Veins and Anomalies <i>Alev Cumbul</i>	Group B
13.00- 13.50	Lunch Break				
14.00- 14.50	Online Laboratory / Biochemistry Peripheral Blood Smear <i>Jale Çoban & Müge Kopuz Alvarez Noval</i>	Lecture Introduction to Mycology <i>Nilgün Çerikçioğlu</i>	Lecture Superficial/Subcutaneous Mycosis <i>Nilgün Çerikçioğlu</i>	ICP / CSL: Basic Life Support and Heimlich Maneuver <i>Gökhan Gencer Cem Şimşek</i> Group C	
15.00- 15.50		Lecture Systemic Mycoses <i>Nilgün Çerikçioğlu</i>	Lecture Diagnostic Methods in Mycology <i>Nilgün Çerikçioğlu</i>	<i>Gökhan Gencer Cem Şimşek</i> Group C	SRPC SGS Group A <i>Deniz Kırac</i>
16.00- 16.50	Online Laboratory/ Physiology ECG I <i>Bayram Yılmaz & Mehtap Kaçar & Burcu Gemici Başol</i>	Lecture Introduction to Mycology <i>Nilgün Çerikçioğlu</i>	Lecture Opportunistic Mycoses-I <i>Nilgün Çerikçioğlu</i>		
17.00-17.50	Independent Learning	Lecture Coronary Circulation <i>Mehtap Kaçar</i>	Lecture Opportunistic Mycoses-II <i>Nilgün Çerikçioğlu</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
V. WEEK / 11 – 15 Oct 2021 (Group 1 Online, Group 2 Face to Face)

	Monday 11-Oct-2021	Tuesday 12-Oct-2021		Wednesday 13-Oct-2021		Thursday 14-Oct-2021	Friday 15-Oct-2021		
09.00- 09.50	Laboratory / Histology&Embryology Histology of Lymphoreticular System <i>Alev Cumbul & Aylin Yaba Uçar</i> Group E	Independent Learning		Laboratory / Physiology ECG II-Blood Pressure - Heart Sounds <i>Bayram Yılmaz & Mehtap Kaçar & Burcu Gemici Başol</i> Group E1	Laboratory / Microbiology Principles and Procedures of Laboratory Safety/ Mycology <i>Pınar Çırağil</i> Group E2	Lecture Disorders Concerning Hemoglobin Metabolism <i>Inci Özden</i>	Laboratory / Anatomy Thoracic Wall, Cavity, Mediastinum/ Great Vessels Of The Body And Lymphatic System <i>Aikaterini Panteli</i> Group 2		
10.00- 10.50	Group A	Independent Learning		Group A2	Group A1	Lecture Disorders Concerning Hemoglobin Metabolism <i>Inci Özden</i>	Group 3		
11.00- 11.50	Group B	Independent Learning		Group B2	Group B1	Lecture Local and Humoral Control of Blood Flow by the Tissues <i>Bayram Yılmaz</i>	Group 4		
12.00- 12.50	Group C	Independent Learning		Group C2	Group C!	Independent Learning	Group 1		
13.00- 13.50	Lunch Break								
14.00-14.50	Group D	Laboratory / Physiology ECG II-Blood Pressure -Heart Sounds <i>Bayram Yılmaz & Mehtap Kaçar & Burcu Gemici Başol</i> Group A1	Laboratory / Microbiology Principles and Procedures of Laboratory Safety/ Mycology <i>Pınar Çırağil</i> Group A2	Group D2	Group D1	ICP / CSL: Basic Life Support and Heimlich Maneuver <i>Gökhan Gencer Cem Şimşek</i> Group D	ICP / CSL: Basic Life Support and Heimlich Maneuver <i>Gökhan Gencer Cem Şimşek</i> Group E		
15.00- 15.50	Independent Learning	Group B1	Group B2	Group E2	Group E1	<i>Gökhan Gencer Cem Şimşek</i> Group D	<i>SRPC SGS Deniz Kuraç</i> Group E		
16.00- 16.50	Independent Learning	Group C1	Group C2	Lecture Ischemia and Infarction <i>Aydın Sav</i>				<i>Gökhan Gencer Cem Şimşek</i> Group E	<i>SRPC SGS Deniz Kuraç</i> Group D
17.00-17.50	Independent Learning	Group D1	Group D2	Lecture Ischemia and Infarction <i>Aydın Sav</i>					

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

**COMMITTEE I - CARDIOVASCULAR SYSTEM
VI. WEEK / 18 – 22 Oct 2021**

	Monday 18-Oct-2021	Tuesday 19-Oct-2021	Wednesday 20-Oct-2021	Thursday 21-Oct-2021	Friday 22-Oct-2021
09.00- 09.50	Independent Learning	Assessment Session (Physiology, Histology&Embryology, Microbiology, Biochemisrty Practical Exams)	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50					Assessment Session Committee I (MCQ)
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break				
14.00- 14.50	Independent Learning	Assessment Session (Anatomy Practical Exam)	Independent Learning	Independent Learning	Program Evaluation Session Evaluation of the Committee I Program <i>Secretary of the Committee</i>
15.00- 15.50					Independent Learning
16.00- 16.50					
17.00-17.50					

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

COMMITTEE II - RESPIRATORY SYSTEM**DISTRIBUTION of LECTURE HOURS**

October 25– December 3, 2021

COMMITTEE DURATION: 6 WEEKS

MED 203	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	TOTAL
	DISCIPLINE			
	ANATOMY	11	4GX2H	19
	BIOPHYSICS	4	0	4
	BIOSTATISTICS	4	0	4
	HISTOLOGY & EMBRYOLOGY	6	1GX2H	8
	IMMUNOLOGY	7	0	7
	MEDICAL GENETIC	18	0	18
	MEDICAL MICROBIOLOGY	26	8GX1H	34
	PATHOLOGY	9	0	9
	PHYSIOLOGY	17	8GX1H	25
	SCIENTIFIC RESEARCH and PROJECT COURSE-II	0	5GX3H	15
	PBL	6	0	6
	TOTAL	108	41	149
	INDEPENDENT LEARNING HOURS			87

OTHER COURSES

MED 202	INTRODUCTION to CLINICAL PRACTICE- II	6	5GrX3H	21
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Coordination Committee	Head	Burcu GEMİCİ BAŞOL, PhD. Assoc. Prof.
	Secretary	Sıtkı TIPLAMAZ, MD. Assist. Prof.
	Member	Alev CUMBUL, MD. Assist. Prof.
	Member	Deniz KIRAÇ, PhD Assoc. Prof.

**COMMITTEE II - RESPIRATORY SYSTEM
LECTURERS**

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	LECTURERS
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof. Aikaterini PANTELİ, MD, Assist. Prof. Mohammed ELGAZZAR, MD, Assist. Prof. LAB: Edibe BİLİŞLİ, DVM LAB: Zeynep Büşra ODABAŞ, DMD
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assoc. Prof.
BIOSTATISTICS	E. Çiğdem KELEŞ, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD PhD Prof.
MEDICAL GENETICS	Ömer Faruk BAYRAK, PhD Prof.
MEDICAL MICROBIOLOGY	Güner SÖYLETİR, MD, Prof. Aynur EREN TOPKAYA, MD, Prof. Pınar ÇIRAGİL, MD, Prof. Nilgün ÇERİKÇİOĞLU, MD, Prof.
PATHOLOGY	Aydın SAV, MD Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof. Mehtap KAÇAR, MD, PhD, Prof. Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof
SCIENTIFIC RESEARCH AND PROJECT COURSE-II	Bayram YILMAZ, PhD, Prof. Deniz KIRAÇ, PhD, Assoc. Prof.

OTHER COURSES

MED 202 INTRODUCTION to CLINICAL PRACTICE II	
DISCIPLINE	LECTURERS
CLINICAL SKILLS LAB	Emin Gökhan GENCER, MD, Assist. Prof. Hande Candemir, MD, Assist. Prof.

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;
 - 2.1. describe their anatomy,
 - 2.2. associate with adjacent tissues and organs,
 - 2.3. explain their functional and clinical reflections.
- 3.0. For respiratory system;
 - 3.1. explain developmental stages and list embryological origins of organs,
 - 3.2. associate the relation between major birth abnormalities and developmental process.
 - 3.3. explain histological properties of upper respiratory system
 - 3.4. explain histological properties of lower respiratory system
- 4.0. Explain functions of 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 pulmonary system.
- 8.0. describe dynamics and control of pulmonary circulation.
- 9.0. describe measurement of 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 and pathogenesis of bacteria.
- 15.0. List methods used in protection from microorganisms.
- 16.0. For endogenous and exogenous harmful agents;
 - 16.1. describe their mechanisms of cell and tissue damage,
 - 16.2. describe adaptation process of cells.
- 17.0. list pathologies resulting from endogenous and exogenous harmful agents and consequently emerging diseases.
- 18.0. describe how to prepare a scientific research presentation.
- 19.0. prepare a research article presentation
- 20.0 explain the steps of a statistical hypothesis test according to the properties of a given data.
- 21.0 for statistical hypothesis,
 - 21.1 list the statistical hypothesis test according to the properties of given data
 - 21.2. choose the appropriate statistical hypothesis test according to the properties of given data.
- 22.0. explain case scenario related basic medical science topics in a clinical context.

COMMITTEE II - RESPIRATORY SYSTEM
DISTRIBUTION of LECTURE HOURS
October 25– December 3, 2021
COMMITTEE DURATION: 6 WEEKS

MED 203	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	TOTAL
	DISCIPLINE			
	ANATOMY	11	4GX2H	19
	BIOPHYSICS	4	0	4
	BIOSTATISTICS	4	0	4
	HISTOLOGY & EMBRYOLOGY	6	1GX2H	8
	IMMUNOLOGY	7	0	7
	MEDICAL GENETIC	18	0	18
	MEDICAL MICROBIOLOGY	26	8GX1H	34
	PATHOLOGY	9	0	9
	PHYSIOLOGY	17	8GX1H	25
	SCIENTIFIC RESEARCH and PROJECT COURSE-II	0	5GX3H	15
	PBL	6	0	6
	TOTAL	108	41	149
	INDEPENDENT LEARNING HOURS			87

OTHER COURSES

MED 202	INTRODUCTION to CLINICAL PRACTICE- II	6	5GrX3H	21
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Coordination Committee	Head	Burcu GEMİCİ BAŞOL, PhD. Assoc. Prof.
	Secretary	Sıtkı TIPLAMAZ, MD. Assist. Prof.
	Member	Alev CUMBUL, MD. Assist. Prof.
	Member	Deniz KIRAÇ, PhD Assoc. Prof.

**COMMITTEE II - RESPIRATORY SYSTEM
LECTURERS**

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	LECTURERS
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof. Aikaterini PANTELİ, MD, Assist. Prof. Mohammed ELGAZZAR, MD, Assist. Prof. LAB: Edibe BİLİŞLİ, DVM LAB: Zeynep Büşra ODABAŞ, DMD
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assoc. Prof.
BIOSTATISTICS	E. Çiğdem KELEŞ, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD PhD Prof.
MEDICAL GENETICS	Ömer Faruk BAYRAK, PhD Prof.
MEDICAL MICROBIOLOGY	Güner SÖYLETİR, MD, Prof. Aynur EREN TOPKAYA, MD, Prof. Pınar ÇIRAGİL, MD, Prof. Nilgün ÇERİKÇİOĞLU, MD, Prof.
PATHOLOGY	Aydın SAV, MD Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof. Mehtap KAÇAR, MD, PhD, Prof. Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof
SCIENTIFIC RESEARCH AND PROJECT COURSE-II	Bayram YILMAZ, PhD, Prof. Deniz KIRAÇ, PhD, Assoc. Prof.

OTHER COURSES

MED 202 INTRODUCTION to CLINICAL PRACTICE II	
DISCIPLINE	LECTURERS
CLINICAL SKILLS LAB	Emin Gökhan GENCER, MD, Assist. Prof. Hande Candemir, MD, Assist. Prof.

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,
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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

- 8.0. For respiratory system;
 - 8.1. explain biophysical changes,
 - 8.2. associate with the clinical reflections.
- 9.0. For nose, paranasal sinus, pharynx, larynx, and lung;
 - 9.1. describe their anatomy,
 - 9.2. associate with adjacent tissues and organs,
 - 9.3. explain their functional and clinical reflections.
- 10.0. For respiratory system;
 - 3.1. explain developmental stages and list embryological origins of organs,
 - 3.2. associate the relation between major birth abnormalities and developmental process.
 - 3.3. explain histological properties of upper respiratory system
 - 3.4. explain histological properties of lower respiratory system
- 11.0. Explain functions of pulmonary system.
- 12.0. explain mechanisms of oxygen and carbon dioxide exchange and transportation.
- 13.0. describe dynamics of microcirculation together with general and pulmonary circulation.
- 14.0. describe nervous (autonomous) control of pulmonary system.
- 14.0. describe dynamics and control of pulmonary circulation.
- 15.0. describe measurement of spirometry method.
- 16.0. explain basics of exercise physiology and the effects of exercise on the cardiovascular and respiratory systems,
- 17.0. explain the adaptive changes in the respiratory system in extreme conditions and basic information about pathophysiology of respiratory system disorders.
- 18.0. For immune system;
 - 18.1. describe the properties of pulmonary immune response
 - 18.2. relate changes with infection diseases.
- 19.0. Explain inherited and non-inherited genetic mechanisms in neoplasia.
- 14.0. Describe the structural/biological features and pathogenesis of bacteria.
- 15.0. List methods used in protection from microorganisms.
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 - 16.1. describe their mechanisms of cell and tissue damage,
 - 16.2. describe adaptation process of cells.
- 17.0. list pathologies resulting from endogenous and exogenous harmful agents and consequently emerging diseases.
- 18.0. describe how to prepare a scientific research presentation.
- 19.0. prepare a research article presentation
- 20.0 explain the steps of a statistical hypothesis test according to the properties of a given data.
- 21.0 for statistical hypothesis,
 - 21.1 list the statistical hypothesis test according to the properties of given data
 - 21.2. choose the appropriate statistical hypothesis test according to the properties of given data.
- 22.0. explain case scenario related basic medical science topics in a clinical context.

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

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRUBITION of MCQs and SbMCQ			
			CE	FE	IE	TOTAL
2.0, 22.0	ANATOMY	Dr. A. Panteli	11	4	4	19
1.0, 22.0	BIOPHYSICS	Dr. A. Maharramov	4	1	1	6
20.0 - 21.0	BIOSTATISTICS	Dr. Ç. Keleş	4	1	1	6
3.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar	2	1	1	10
		Dr. A. Cumbul	4	1	1	
12.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	7	3	3	13
13.0	MEDICAL GENETIC	Dr. Ö.F. Bayrak	18	6	6	30
14.0-15.0	MEDICAL MICROBIOLOGY	Dr. G. Söyletir Dr. A. Eren Topkaya Dr. P. Çırağil Dr. N. Çerikçioğlu	24	9	9	42
16.0-17.0	PATHOLOGY	Dr. A. Sav	9	3	3	15
4.0-11.0, 22.0.	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar Dr. B. Gemici Başol	16	6	6	28
22.0	PBL		1	0	0	1
		TOTAL	100	35/200[#]	35/200[#]	170

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB ASSESSMENT POINTS
		LPE
2.0	ANATOMY	40
3.0	HISTOLOGY & EMBRYOLOGY	10
14.0-15.0	MEDICAL MICROBIOLOGY	20
4.0-11.0	PHYSIOLOGY	30
TOTAL		100

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: Scienario-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)

COMMITTEE II - RESPIRATORY SYSTEM
I. WEEK / 25 - 29 Oct 2021 (Group 2 Online, Group 1 Face to Face)

	Monday 25-Oct-2021	Tuesday 26-Oct-2021	Wednesday 27-Oct-2021	Thursday 28-Oct-2021	Friday 29-Oct-2021
09.00- 09.50	PBL	Lecture Cellular Injury and Necrosis <i>Aydın Sav</i>	Lecture Test Hypotheses and Significance in Large Samples <i>E. Çiğdem Keleş</i>	Lecture Histology of the Upper Respiratory Tract <i>Alev Cumbul</i>	National Holiday
10.00- 10.50		Lecture Cellular Injury and Necrosis <i>Aydın Sav</i>	Lecture Test Hypotheses and Significance in Large Samples <i>E. Çiğdem Keleş</i>	Lecture Histology of the Upper Respiratory Tract <i>Alev Cumbul</i>	
11.00- 11.50		Lecture Hemodynamics <i>Aydın Sav</i>	Lecture Infection and Immunity <i>Gülderen Yanıkkaya Demirel</i>	Independent Learning	
12.00- 12.50	Introduction to Committee II Secretary of Committee	Lecture Hemodynamics <i>Aydın Sav</i>	Lecture Infection and Immunity <i>Gülderen Yanıkkaya Demirel</i>	Independent Learning	
13.00- 13.50	Lunch Break				
14.00- 14.50	Lecture Shock and Bleeding Control <i>E. Gökhan Gencer</i>	Lecture Introduction to Respiratory System <i>Aikaterini Panteli</i>	Lecture Infection and Immunity <i>Gülderen Yanıkkaya Demirel</i>	National Holiday	
15.00- 15.50	Lecture Injuries <i>E. Gökhan Gencer</i>	Lecture Nasal Anatomy and Paranasal Sinuses <i>Aikaterini Panteli</i>	Lecture The Larynx <i>Aikaterini Panteli</i>		
16.00- 16.50	Lecture Foreign Objects <i>E. Gökhan Gencer</i>	Lecture The Pharynx <i>Aikaterini Panteli</i>	Lecture The Larynx <i>Aikaterini Panteli</i>		
17.00-17.50	Independent Learning	Lecture The Pharynx <i>Aikaterini Panteli</i>	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 / 1 - 5 Nov 2021 (Group 1 Online, Group 2 Face to Face)

	Monday 1-Nov-2021	Tuesday 2-Nov-2021	Wednesday 3-Nov-2021	Thursday 4-Nov-2021	Friday 5-Nov-2021	
09.00- 09.50	PBL	Independent Learning	Independent Learning	Lecture Hemorrhage and Thrombosis <i>Aydın Sav</i>	Independent Learning	
10.00- 10.50		Independent Learning	Independent Learning	Lecture Hemorrhage and Thrombosis <i>Aydın Sav</i>	Lecture Gram Positive Cocci <i>Güner Söyletir</i>	
11.00- 11.50		Lecture Test Hypotheses and Significance in Large Samples <i>E. Çiğdem Keleş</i>	Independent Learning	Independent Learning	Lecture Gram Positive Cocci <i>Güner Söyletir</i>	
12.00- 12.50	Independent Learning	Lecture Test Hypotheses and Significance in Large Samples <i>E. Çiğdem Keleş</i>	Independent Learning	Independent Learning	Lecture Gram Positive Cocci <i>Güner Söyletir</i>	
13.00- 13.50	Lunch Break					
14.00- 14.50	Lecture Fractures and Dislocation <i>Hande Candemir</i>	Lecture Introduction to Bacteriology <i>Aynur Eren Topkaya</i>	Independent Learning	ICP/CSL Patient-Casualty Transportation / Bandaging Techniques <i>Özlem Tanrıöver</i> Group D	Lecture Pulmonary Circulation, Pulmonary Edema, Pleural Fluid <i>Bayram Yılmaz</i>	
15.00- 15.50	Lecture Unconscious casualty <i>Hande Candemir</i>	Lecture Bacterial Genetics <i>Pinar Çıragil</i>	Independent Learning	Özlem Tanrıöver Group D	SRPC SGS <i>Deniz Kıraç</i> Group C	
16.00- 16.50	Lecture Patient-Casualty Transportation Techniques <i>Hande Candemir</i>	Lecture Bacterial Pathogenesis <i>Güner Söyletir</i>	Independent Learning			Lecture Pulmonary Circulation, Pulmonary Edema, Pleural Fluid <i>Bayram Yılmaz</i>
17.00-17.50	Independent Learning	Lecture Microbiome <i>Nilgün Çerikçioğlu</i>	Independent Learning			Independent Learning
18.00-19.59						
20.00-20.50		Lecture Introduction to Medical Genetics <i>Ömer Faruk Bayrak</i>	Lecture Patterns of Single Gene Inheritance <i>Ömer Faruk Bayrak</i>	Lecture The Human Genome and Chromosomal Basis of Heredity <i>Ömer Faruk Bayrak</i>		
21.00-21.50		Lecture Introduction to Medical Genetics <i>Ömer Faruk Bayrak</i>	Lecture Patterns of Single Gene Inheritance <i>Ömer Faruk Bayrak</i>	Lecture Cytogenetics and Chromosomal Disorders <i>Ömer Faruk Bayrak</i>		

IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinators. Full online lectures are in grey

COMMITTEE II - RESPIRATORY SYSTEM
III. WEEK / 8-12 Nov 2021 (Group 2 Online, Group 1 Face to Face)

	Monday 8-Nov-2021	Tuesday 9-Nov-2021	Wednesday 10-Nov-2021	Thursday 11-Nov-2021	Friday 12-Nov-2021
09.00- 09.50	Independent Learning	Lecture Cancer Genetics and Genomics <i>Ömer Faruk Bayrak</i>	Commemoration of Atatürk	Lecture Molecular Basis of Genetic Diseases <i>Ömer Faruk Bayrak</i>	Laboratory / Anatomy Upper / Lower Respiratory System <i>Aikaterini Panteli</i> Group 1
10.00- 10.50	Independent Learning	Lecture Cancer Genetics and Genomics <i>Ömer Faruk Bayrak</i>	Lecture Gram Negative Cocci <i>Güner Söyletir</i>	Lecture Tools of Human Molecular Genetics <i>Ömer Faruk Bayrak</i>	Group 2
11:00-11:50	Lecture Pulmonary Ventilation <i>Bayram Yılmaz</i>	Lecture Development of the Respiratory Systems & Anomalies <i>Aylin Yaba Uçar</i>	Lecture Gram Negative Cocci <i>Güner Söyletir</i>	Lecture Enterobacteriaceae <i>Güner Söyletir</i>	Group 3
12:00-12:50	Lecture Pulmonary Ventilation <i>Bayram Yılmaz</i>	Lecture Development of the Respiratory Systems & Anomalies <i>Aylin Yaba Uçar</i>	Lecture Injury by Endogenous Substances <i>Aydın Sav</i>	Lecture Enterobacteriaceae <i>Güner Söyletir</i>	Group 4
13.00- 13.50	Lunch Break				
14.00- 14.50	Lecture Pulmonary Innate Immune Response <i>Gülderen Yanıkkaya Demirel</i>	Lecture Gram Positive Aerob Bacilli <i>Güner Söyletir</i>	Lecture Diffusion of Blood Gases <i>Bayram Yılmaz</i>	ICP/CSL Patient-Casualty Transportation / Bandaging Techniques <i>Özlem Tanrıöver</i> Group E	Independent Learning
15.00- 15.50	Lecture Pulmonary Innate Immune Response <i>Gülderen Yanıkkaya Demirel</i>	Lecture Gram Positive Aerob Bacilli <i>Güner Söyletir</i>	Lecture Diffusion of Blood Gases <i>Bayram Yılmaz</i>	<i>Özlem Tanrıöver</i> Group E	Independent Learning
16.00- 16.50	Lecture Developmental Genetics and Birth Defects <i>Ömer Faruk Bayrak</i>	Lecture Histology of the Respiratory Systems; Respiratory Part <i>Alev Cumbul</i>	Lecture The Human Genome and Chromosomal Basis of Heredity <i>Ömer Faruk Bayrak</i>		Independent Learning
17.00-17.50	Lecture Developmental Genetics and Birth Defects <i>Ömer Faruk Bayrak</i>	Lecture Histology of The Respiratory Systems; Conducting Part <i>Alev Cumbul</i>	Lecture Cytogenetics and Chromosomal Disorders <i>Ömer Faruk Bayrak</i>		Independent Learning

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

COMMITTEE II - RESPIRATORY SYSTEM
IV. WEEK /15 – 19 Nov 2021 (Group 1 Online, Group 2 Face to Face)

	Monday 15-Nov-2021	Tuesday 16-Nov-2021	Wednesday 17-Nov-2021	Thursday 18-Nov-2021	Friday 19-Nov-2021	
09.00- 09.50	Independent Learning	Lecture Regulation of Respiration <i>Burcu Gemici Başol</i>	Lecture Pulmonary Adaptive Immune Response <i>Gülderen Yanıkkaya Demirel</i>	Lecture Aviation, High-Altitude and Space Physiology <i>Bayram Yılmaz</i>	Laboratory / Anatomy Larynx- Pleura and Diaphragm <i>Aikaterini Panteli</i> Group 2	
10.00- 10.50	Independent Learning	Lecture Regulation of Respiration <i>Burcu Gemici Başol</i>	Lecture Pulmonary Adaptive Immune Response <i>Gülderen Yanıkkaya Demirel</i>	Lecture Physiology of Deep-Sea Diving and Hyperbaric Conditions <i>Bayram Yılmaz</i>	Group 3	
11.00- 11.50	Lecture Transport of Blood Gases <i>Bayram Yılmaz</i>	Lecture Mycoplasma-Chlamydia-Rickettsia <i>Pınar Çiragil</i>	Lecture Injury by Toxic Substances and Pneumoconiosis <i>Aydın Sav</i>	Lecture Physiology of Deep-Sea Diving and Hyperbaric Conditions-2 <i>Bayram Yılmaz</i>	Group 4	
12.00- 12.50	Lecture Transport of Blood Gases <i>Bayram Yılmaz</i>	Lecture Mycoplasma-Chlamydia-Rickettsia <i>Pınar Çiragil</i>	Lecture Injury by Toxic Substances and Pneumoconiosis <i>Aydın Sav</i>	Lecture Spirochetes <i>Pınar Çiragil</i>	Group 1	
13.00- 13.50	Lunch Break					
14.00- 14.50	Lecture Anaerobs <i>Aynur Eren Topkaya</i>	Lecture Treatment of Genetic Disease - Introduction to Gene Therapy <i>Ömer Faruk Bayrak</i>	Lecture Pleura and Diaphragm <i>Aikaterini Panteli</i>	ICP/CSL Patient-Casualty Transportation / Bandaging Techniques <i>Özlem Tanrıöver</i> Group B		
15.00- 15.50	Lecture Anaerobs <i>Aynur Eren Topkaya</i>	Lecture Treatment of Genetic Disease - Introduction to Gene Therapy <i>Ömer Faruk Bayrak</i>	Lecture Pleura and Diaphragm <i>Aikaterini Panteli</i>	Özlem Tanrıöver Group B	SRPC SGS <i>Deniz Kırış</i> Group A	
16.00- 16.50	Lecture The Trachea <i>Aikaterini Panteli</i>	Lecture Principle of Surface Tension & Alveolar Mechanic <i>Akif Maharramov</i>	Lecture Review of the Respiratory System <i>Aikaterini Panteli</i>			Lecture Cultivation and identification of bacteria <i>Aynur Eren Topkaya</i>
17.00-17.50	Lecture The Lungs <i>Aikaterini Panteli</i>	Lecture Principle of Surface Tension & Alveolar Mechanic <i>Akif Maharramov</i>	Independent Learning			Independent Learning

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

COMMITTEE II - RESPIRATORY SYSTEM
V. WEEK / 22 – 26 Nov 2021 (Group 2 Online, Group 1 Face to Face)

	Monday 22--Nov-2021	Tuesday 23-Nov-2021	Wednesday 24-Nov-2021	Thursday 25-Nov-2021	Friday 26-Nov-2021	
09.00- 09.50	Lecture Introduction to Pathophysiology of Respiratory System <i>Mehtap Kaçar</i>	Independent Learning	Lecture Modeling in Circulatory & Respiratory Systems <i>Akif Maharramov</i>	Laboratory / Microbiology Bacteriology <i>Microbiology Instructors</i> Group 1A	IICP/CSL Patient-Casualty Transportation / Bandaging Techniques <i>Serdar özdemir</i> Group C	
10.00- 10.50	Lecture Introduction to Pathophysiology of Respiratory System <i>Mehtap Kaçar</i>	Laboratory /Histology& Embryology Histology of Respiratory System <i>Alev Cumbul, Aylin Yaba Uçar</i> Group A	Lecture Modeling in Circulatory & Respiratory Systems <i>Akif Maharramov</i>	Group 1B		
11.00- 11.50	Lecture Genetics of Complex Diseases <i>Ömer Faruk Bayrak</i>	Group B	Lecture Sports Physiology <i>Mehtap Kaçar</i>	Group 2A		
12.00- 12.50	Lecture Genetics of Complex Diseases <i>Ömer Faruk Bayrak</i>	Group C	Lecture Sports Physiology <i>Mehtap Kaçar</i>	Group 2B	<i>Serdar özdemir</i> Group C	
13.00- 13.50	Lunch Break					
14.00- 14.50	Lecture Non-fermenters <i>Güner Söyletir</i>	Group D	Lecture Gram Negative Curved Bacilli <i>Güner Söyletir</i>	IICP/CSL Patient-Casualty Transportation / Bandaging Techniques <i>Serdar özdemir</i> Group A		
15.00- 15.50	Lecture Gram Negative Small Non-enteric Bacilli I <i>Güner Söyletir</i>	Group E	Lecture Mycobacteria-Actinomycetes-Nocardia <i>Güner Söyletir</i>	<i>Serdar özdemir</i> Group A	SRPC SGS <i>Deniz Kıraç</i> Group D	
16.00- 16.50	Lecture Gram Negative Small Non-enteric Bacilli II <i>Güner Söyletir</i>	Laboratory / Physiology Exercise and Metabolism-Spirometry <i>Bayram Yılmaz & Mehtap Kaçar & Burcu Gemici Başol</i>	Lecture Mycobacteria-Actinomycetes-Nocardia <i>Güner Söyletir</i>			Group 3B
17.00-17.50	Independent Learning		Independent Learning			Group 4A
					Group 4B	

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

COMMITTEE II - RESPIRATORY SYSTEM
VI. WEEK / 29 Nov – 3 Dec 2021

	Monday 29-Nov-2021	Tuesday 30-Nov-2021	Wednesday 1-Dec-2021	Thursday 2-Dec-2021	Friday 3-Dec-2021
09.00- 09.50	Independent Learning	Assessment Session (Anatomy, Physiology and Histology&Embryology, MicrobiologyPractical Exams)	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50					Assessment Session Committee II (MCQ)
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break				
14.00- 14.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee II Program <i>Secretary of the Committee</i>
15.00- 15.50					Independent Learning
16.00- 16.50					
17.00- 17.50					

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM

DISTRIBUTION of LECTURE HOURS
December 6, 2021– January 21, 2022
COMMITTEE DURATION: 7 WEEKS

MED 203	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	TOTAL
	DISCIPLINE			
	ANATOMY	20	5GX1H 5GX1H 5GX1H	35
	BIOCHEMISTRY	32	1GX2H	34
	BIOPHYSICS	10	0	10
	BIOSTATISTICS	4	0	4
	HISTOLOGY & EMBRYOLOGY	12	5GX1H 5GX1H	22
	IMMUNOLOGY	2	0	2
	MEDICAL BIOLOGY	6	0	6
	MEDICAL MICROBIOLOGY	10	1GX1H	11
	PATHOLOGY	6	0	6
	PHYSIOLOGY	17	1GX2H	19
	SCIENTIFIC RESEARCH and PROJECT COURSE-II	0	5GX3H	15
	PBL	6	0	6
	TOTAL	125	21	146
	INDEPENDENT LEARNING HOURS	107		

OTHER COURSES

MED 202	INTRODUCTION to CLINICAL PRACTICE- II	5	4 GrX3H + 1 GrX3H	8
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Coordination Committee	Head	İnci ÖZDEN, Ph.D. Prof.
	Secretary	Müge KOPUZ ALVAREZ NOVAL, PhD Assist. Prof
	Member	Mehtap KAÇAR, MD. Ph.D. Prof.
	Member	Aikaterini PANTELİ, MD, Lecturer

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

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	LECTURERS
ANATOMY	Erdem SÖZTUTAR, MD Assist. Prof. Aikaterini PANTELİ, MD Lecturer Mohammed ELGAZZAR, MD Lecturer LAB: Edibe BİLİŞLİ, DVM. LAB: Zeynep Büşra ODABAŞ, DDS LAB: Ahmet SAÇ, MD
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof. LAB: Jale ÇOBAN, MD Prof. LAB: Müge KOPUZ ALVAREZ NOVAL, PhD Assist. Prof.
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assoc. Prof.
BIOSTATISTICS	E. Çiğdem KELEŞ, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD PhD Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof. Altay Burak DALAN, PhD, Prof. Soner DOĞAN, PhD, Prof. Deniz KIRAÇ, PhD Assoc. Prof. Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof
MEDICAL MICROBIOLOGY	Aynur EREN, MD Prof. Pınar ÇIRAGİL, MD Prof. Sibel Ergüven, MD. PhD Prof.
PATHOLOGY	Aydın SAV MD Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR, MD. PhD Prof. Burcu GEMİCİ BAŞOL, PhD Assoc. Prof.
SCIENTIFIC RESEARCH AND PROJECT COURSE-II	Bayram YILMAZ, PhD. Prof. Deniz KIRAÇ, PhD. Assoc. Prof.

OTHER COURSES

MED 202 INTRODUCTION TO CLINICAL PRACTICE II	
DISCIPLINE	LECTURERS
CLINICAL SKILLS LAB	Güldal İZBIRAK, MD Assoc. Prof. Özlem TANRIÖVER, MD MPH. Prof. A. Arzu AKALIN, MD Assist. Prof. Serdar ÖZDEMİR, MD Assist. Prof. Fatma Tuğba COŞKUN, MD.

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 and basics of proper alimentation.
- 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. explain 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 and pathogenesis of parasites.
- 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**

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRIBUTION of MCQs and SbMCQ			
			CE	FE	IE	TOTAL
3.0.-4.0.	ANATOMY	Dr. M.Elgazzar	17	7	7	31
6.0, 8.0.-11.0., 18.0	BIOCHEMISTRY	Dr. İ. Özden	27	11	11	49
1.0., 18.0	BIOPHYSICS	Dr. A. Maharramov	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	4	4	18
13.0.	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	2	1	1	4
2.0.	MEDICAL BIOLOGY	Dr. S. Doğan	5	2	2	9
12.0.	MEDICAL MICROBIOLOGY	Dr. A. Eren Dr. P. Çıragil	8	3	3	14
19.0	PATHOLOGY	Dr. A. Sav	5	2	2	9
7.0., 18.0.	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar Dr. B. Gemici Başol	14	6	6	26
18.0	PBL		1	0	0	1
		TOTAL	100	40/200[#]	40/200[#]	180
LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB ASSESSMENT POINTS				
		LPE				
3.0-4.0	ANATOMY	60				
6.0, 8.0.-11.0.	BIOCHEMISTRY	5				
5.0.	HISTOLOGY & EMBRYOLOGY	20				
12.0.	MICROBIOLOGY	5				
7.0.	PHYSIOLOGY	10				
	TOTAL	100				

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

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 / 06 – 10 Dec 2021 (Group 1 Online, Group 2 Face to Face)

	Monday 06-Dec-2021	Tuesday 07-Dec-2021	Wednesday 08-Dec-2021	Thursday 09-Dec-2021	Friday 10-Dec-2021
09.00- 09.50	PBL	Lecture Digestion and Absorption of Lipids <i>Inci Özden</i>	Lecture Transport of Lipids in Plasma <i>Inci Özden</i>	Lecture Oral Cavity <i>Mohammed Elgazzar</i>	Lecture Cholesterol Metabolism <i>Inci Özden</i>
10.00- 10.50		Lecture Digestion and Absorption of Lipids <i>Inci Özden</i>	Lecture Transport of Lipids in Plasma <i>Inci Özden</i>	Lecture Oral Cavity <i>Mohammed Elgazzar</i>	Lecture Cholesterol Metabolism <i>Inci Özden</i>
11.00- 11.50		Lecture Gastrointestinal Functions <i>Burcu Gemici Başol</i>	Lecture Energy Transformation & Distribution in Bio-molecular Systems <i>Akif Maharramov</i>	Lecture Bio-thermodynamics, Laws of Thermodynamics <i>Akif Maharramov</i>	Lecture Propulsion and Mixing Movements in the GI Tract <i>Burcu Gemici Başol</i>
12.00- 12.50	Introduction to Committee III Secretary of Committee	Lecture Gastrointestinal Functions <i>Burcu Gemici Başol</i>	Independent Learning	Lecture The Zeroth and First Laws of Thermodynamics <i>Akif Maharramov</i>	Lecture Propulsion and Mixing Movements in the GI Tract <i>Burcu Gemici Başol</i>
13.00- 13.50	Lunch Break				
14.00- 14.50	Independent Learning	Lecture Introduction to Medical Parasitology <i>Sibel Ergüven</i>	Lecture GIT Development <i>Mohammed Elgazzar</i>	ICP/CSL Nasogastric Tube Administration <i>Özlem Tanrıöver/Arzu Akalın</i> Group C	Lecture Histology of Upper Gastrointestinal Tract; Oral Cavity <i>Alev Cumbul</i>
15.00- 15.50	Independent Learning	Lecture Urogenital and gastrointestinal Protozoa <i>Sibel Ergüven</i>	Lecture GIT Development <i>Mohammed Elgazzar</i>	<i>Özlem Tanrıöver/Arzu Akalın/ Gözde Şen</i> Group C	SRPC SGS <i>Deniz Kıraç</i> Group B
16.00- 16.50	Introduction to Elective Courses	Lecture Burns, Freezing, Frostbite <i>Gökhan Gencer</i>	Independent Learning		
17.00-17.50		Lecture Poisoning <i>Gökhan gencer</i>	Independent Learning		Independent Learning

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

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM
II. WEEK /13 – 17 Dec 2021 (Group 2 Online, Group 1 Face to Face)

	Monday 13-Dec-2021	Tuesday 14-Dec-2021	Wednesday 15-Dec-2021	Thursday 16-Dec-2021	Friday 17-Dec-2021	
09.00- 09.50	PBL Session	Lecture Small Intestine <i>Mohammed Elgazzar</i>	Lecture Lipolysis <i>İnci Özden</i>	Independent Learning	Lecture Oxidation of Fatty Acids <i>İnci Özden</i>	
10.00- 10.50		Lecture Small Intestine <i>Mohammed Elgazzar</i>	Lecture Lipolysis <i>İnci Özden</i>	Independent Learning	Lecture Oxidation of Fatty Acids <i>İnci Özden</i>	
11.00- 11.50		Lecture Histology of Alimentary Canal; Small Intestine <i>Aylin Yaba Uçar</i>	Lecture Digestion and Absorbtion in the Gastrointestinal Tract <i>Burcu Gemici Başol</i>	Lecture Gland Associated with the Digestive System; Pancreas <i>Aylin Yaba Uçar</i>	Lecture Propulsion and Mixing Movements in the GI Tract <i>Burcu Gemici Başol</i>	
12.00- 12.50	Independent Learning	Lecture Histology of Alimentary Canal; Large Intestine & Appendix <i>Aylin Yaba Uçar</i>	Lecture Digestion and Absorbtion in the Gastrointestinal Tract <i>Burcu Gemici Başol</i>	Lecture Gland Associated with the Digestive System; APUD System <i>Aylin Yaba Uçar</i>	Lecture Propulsion and Mixing Movements in the GI Tract <i>Burcu Gemici Başol</i>	
13.00- 13.50	Lunch Break					
14.00- 14.50	Lecture Esophagus & Stomach <i>Mohammed Elgazzar</i>	Lecture Lipogenesis, Triacylglycerol Synthesis <i>İnci Özden</i>	Lecture Gland Associated with the Digestive System; Liver <i>Aylin Yaba Uçar</i>	ICP/CSL Nasogastric Tube Administration <i>Özlem Tanrıöver/Arzu Akalın</i> Group D	Lecture Digestion and Absorbtion in the Gastrointestinal Tract <i>Burcu Gemici Başol</i>	
15.00- 15.50	Lecture Esophagus & Stomach <i>Mohammed Elgazzar</i>	Lecture Lipogenesis, Triacylglycerol Synthesis <i>İnci Özden</i>	Lecture Gland Associated with the Digestive System; Gall Bladder <i>Aylin Yaba Uçar</i>	<i>Özlem Tanrıöver Arzu Akalın/Gözde Şen</i> Group D	SRPC SGS <i>Deniz Kırtaç</i> Group C	
16.00- 16.50	Lecture Duodenum <i>Mohammed Elgazzar</i>	Lecture Drowning <i>Gökhan Gencer</i>	Independent Learning			Independent Learning
17.00-17.50	Independent Learning	Lecture Insect Bite <i>Gökhan Gencer</i>	Independent Learning			Independent Learning

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COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM
III. WEEK / 20 – 24 Dec 2021 (Group 1 Online, Group 2 Face to Face)

	Monday 20-Dec-2021	Tuesday 21-Dec-2021	Wednesday 22-Dec-2021	Thursday 23-Dec-2021	Friday 24-Dec-2021	
9.00- 09.50	Lecture Energetics and Metabolic Rate <i>Bayram Yılmaz</i>	Independent Learning	Lecture Ketone Bodies <i>İnci Özden</i>	Lecture Digestion and Absorption of Proteins <i>İnci Özden</i>	Lecture Regulation of Feeding and Obesity <i>Bayram Yılmaz</i>	
10.00- 10.50	Lecture Energetics and Metabolic Rate <i>Bayram Yılmaz</i>	Lecture Interrelationship of Biology of Major Organs <i>Soner Doğan</i>	Lecture Ketone Bodies <i>İnci Özden</i>	Lecture Digestion and Absorption of Proteins <i>İnci Özden</i>	Lecture Regulation of Feeding and Obesity <i>Bayram Yılmaz</i>	
11:00-11:50	Lecture Development of Gastrointestinal Tract; Alimentary Canal <i>Alev Cumbul</i>	Lecture Interrelationship of Biology of Major Organs <i>Soner Doğan</i>	Lecture Secretory Functions of the Alimentary Tract <i>Burcu Gemici Başol</i>	Lecture Entropy, Free Energy, Boltzmann Distribution <i>Akif Maharramov</i>	Lecture Large Intestine <i>Erdem Söztutar</i>	
12:00-12:50	Lecture Development of Gastrointestinal Tract; Alimentary Canal <i>Alev Cumbul</i>	Lecture Energy Transformation & Distribution in Bio-molecular Systems <i>Akif Maharramov</i>	Lecture Secretory Functions of the Alimentary Tract <i>Burcu Gemici Başol</i>	Lecture The Second Law of Thermodynamics <i>Akif Maharramov</i>	Lecture Large Intestine <i>Erdem Söztutar</i>	
13.00- 13.50	Lunch Break					
14.00- 14.50	Lecture Blood and tissue Protozoa <i>Sibel Ergüven</i>	Lecture Applications of the First Law to Isochoric, Isobaric Processes, Enthalpy <i>Akif Maharramov</i>	Lecture Cestodes <i>Sibel Ergüven</i>	ICP/CSL Nasogastric Tube Administration <i>Özlem Tanrıöver/ Arzu Akalın</i> Group E	Lecture Interrelationship of Biology of Major Organs <i>Soner Doğan</i>	
15.00- 15.50	Lecture Blood and tissue Protozoa <i>Sibel Ergüven</i>	Lecture Applications of the First Law to Isochoric, Isobaric Processes, Enthalpy <i>Akif Maharramov</i>	Lecture Trematodes <i>Sibel Ergüven</i>	<i>Özlem Tanrıöver /Arzu Akalın/ Cem Şimşek</i> Group E	SRPC SGS <i>Deniz Kırac</i> Group A	Lecture Interrelationship of Biology of Major Organs <i>Soner Doğan</i>
16.00- 16.50	Independent Learning	Lecture Legal Aspect of First Aid <i>Elif Vatanoğlu Lutz</i>	Independent Learning			Independent Learning
17.00-17.50	Independent Learning	Lecture Legal Aspect of First Aid <i>Elif Vatanoğlu Lutz</i>	Independent Learning			Independent Learning

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

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM
IV. WEEK / 27 – 31 Dec 2021 (Group 2 Online, Group 1 Face to Face)

	Monday 27-Dec-2021	Tuesday 28-Dec-2021	Wednesday 29-Dec-2021	Thursday 30-Dec-2021	Friday 31-Dec-2021	
09.00- 09.50	Lecture Metabolisms of Individual Amino Acids <i>Inci Özden</i>	Lecture Test Hypotheses and Significance- Chi-Square Test <i>E. Çığdem Keleş</i>	Lecture Metabolic Interrelationships and Provision of Tissue Fuels <i>Inci Özden</i>	Lecture Citric Acid Cycle <i>Inci Özden</i>	Independent Learning	
10.00- 10.50	Lecture Metabolisms of Individual Amino Acids <i>Inci Özden</i>	Lecture Test Hypotheses and Significance- Chi-Square Test <i>E. Çığdem Keleş</i>	Lecture Metabolic Interrelationships and Provision of Tissue Fuels <i>Inci Özden</i>	Lecture Citric Acid Cycle <i>Inci Özden</i>	Independent Learning	
11.00- 11.50	Lecture Body Temperature and Its Regulation <i>Bayram Yılmaz</i>	Lecture Liver as Organ <i>Bayram Yılmaz</i>	Lecture Inflammation <i>Aydın Sav</i>	Lecture Nutrigenomics <i>Soner Doğan</i>	Independent Learning	
12.00- 12.50	Lecture Body Temperature and Its Regulation <i>Bayram Yılmaz</i>	Lecture Congenital Anaomalies of Gastrointestinal Trac <i>Alev Cumbul</i>	Lecture Wound Healing <i>Aydın Sav</i>	Lecture Nutrigenomics <i>Soner Doğan</i>	Independent Learning	
13.00- 13.50	Lunch Break					
14.00- 14.50	Lecture Physiology of Gastrointestinal Disorders <i>Mehtap Kaçar</i>	Lecture Urea Cycle <i>Inci Özden</i>	Lecture Repetition all of the Material <i>Akif Maharramov</i>	ICP/CSL Nasogastric Tube Administration <i>Özlem Tanrıöver/ Arzu Akalın</i> Group A		
15.00- 15.50	Lecture Physiology of Gastrointestinal Disorders <i>Mehtap Kaçar</i>	Lecture Urea Cycle <i>Inci Özden</i>	Lecture Repetition all of the Material <i>Akif Maharramov</i>	<i>Özlem Tanrıöver/ Arzu Akalın</i> <i>/ Cem Şimşek</i> Group A	SRPC SGS <i>Deniz Kıraç</i> Group D	
16.00- 16.50	Lecture Nematodes <i>Sibel Ergüven</i>	Independent Learning	Independent Learning			Independent Learning
17.00-17.50	Lecture Nematodes <i>Sibel Ergüven</i>	Independent Learning	Independent Learning			Independent Learning

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COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM
V. WEEK / 03 – 07 Jan 2022 (Group 1 Online, Group 2 Face to Face)

	Monday 03-Jan-2022	Tuesday 04-Jan-2022	Wednesday 05-Jan-2022	Thursday 06-Jan-2022	Friday 07-Jan-2022	
09.00- 09.50	Lecture Purine and Pyrimidine Metabolism <i>Inci Özden</i>	Lecture Acute Inflammation <i>Aydın Sav</i>	Lecture Chronic Inflammation <i>Aydın Sav</i>	Lecture Xenobiotic Metabolism <i>Inci Özden</i>	Lecture Overview of Metabolism <i>Inci Özden (ONLINE)</i>	
10.00- 10.50	Lecture Purine and Pyrimidine Metabolism <i>Inci Özden</i>	Lecture Acute Inflammation <i>Aydın Sav</i>	Lecture Chronic Inflammation <i>Aydın Sav</i>	Lecture Xenobiotic Metabolism <i>Inci Özden</i>	Lecture Overview of Metabolism <i>Inci Özden (ONLINE)</i>	
11:00-11:50	Lecture Opportunistic parasites <i>Sibel Ergüven</i>	Lecture Test Hypotheses and Significance- Z-Test <i>Çiğdem Keleş</i>	Lecture Mucosal Immunity <i>Gülderen Yanikkaya Demirel</i>	Lecture Nerves and vasculature <i>Erdem Söztutar</i>	Laboratory / Physiology Digestive System <i>Bayram Yılmaz & Mehtap Kaçar</i> & <i>Burcu Gemici Başol</i>	
12:00-12:50	Lecture Medical entomology <i>Sibel Ergüven</i>	Lecture Test Hypotheses and Significance- Z-Test <i>Çiğdem Keleş</i>	Lecture Mucosal Immunity <i>Gülderen Yanikkaya Demirel</i>	Lecture Nerves and vasculature <i>Erdem Söztutar</i>		
13.00- 13.50	Lunch Break					
14.00- 14.50	Lecture Liver <i>Erdem Söztutar</i>	Lecture The Pancreas and Spleen <i>Erdem Söztutar</i>	Lecture Metabolic Interrelationships and Provision of Tissue Fuels <i>Inci Özden</i>	ICP/CSL Nasogastric Tube Administration <i>Özlem Tannöver/ Arzu Akalın</i> Group B		
15.00- 15.50	Lecture Biliary System <i>Erdem Söztutar</i>	Lecture Peritoneal and Abdominal Cavity <i>Erdem Söztutar</i>	Lecture Metabolic Interrelationships and Provision of Tissue Fuels <i>Inci Özden</i>	<i>Özlem Tannöver/ Arzu Akalın</i> / <i>Cem Şimşek</i> Group B	SRPC SGS <i>Deniz Kıraç</i> Group E	
16.00- 16.50	Independent Learning	Lecture Abdominal Wall Topographic Anatomy <i>Erdem Söztutar</i>	Independent Learning			Laboratory / Biochemistry Lipid Determination in Blood <i>Jale Çoban &</i> <i>Müge Kopuz Alvarez Noval</i>
17.00-17.50	Independent Learning	Independent Learning	Independent Learning			Lecture Review of the Digestive System <i>Erdem Söztutar (Online)</i>
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Lecture Review of the Digestive System <i>Erdem Söztutar (Online)</i>	Lecture Review of the Digestive System <i>Erdem Söztutar (Online)</i>	

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

**COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM
VI. WEEK / 10 – 14 Jan 2022 (Face to Face)**

	Monday 10-Jan-2022	Tuesday 11-Jan-2022	Wednesday 12-Jan-2022	Thursday 13-Jan-2022	Friday 14-Jan-2022
09.00- 09.50	Independent Learning	Independent Learning	Laboratory / Anatomy Upper GI system <i>Erdem Söztutar</i> <i>Edibe Bilişli</i> <i>Zeynep Odabaş</i> <i>Ahmet Saç</i> Group 1	Laboratory / Anatomy Lower GI system / abdominal cavity and peritoneum <i>Erdem Söztutar</i> <i>Edibe Bilişli</i> <i>Zeynep Odabaş</i> <i>Ahmet Saç</i> Group 1	Laboratory / Microbiology Parasitology <i>Sibel Ergüven</i> Group 3A
10.00- 10.50	Laboratory / Histology& Embryology Histology of GIS- I <i>Alev Cumbul & Aylin Yaba Uçar</i> Group A	Laboratory / Histology& Embryology Histology of GIS-II <i>Alev Cumbul &</i> <i>Aylin Yaba Uçar</i> Group B	Group 2	Group 2	Group 3B
11:00-11:50	Group B	Group C	Group 3	Group 3	Group 4A
12:00-12:50	Group C	Group D	Group 4	Group 4	Group 4B
13.00- 13.50	Lunch Break				
14.00- 14.50	Group D	Group E	Independent Learning	Laboratory / Anatomy Hepatobiliary system and spleen <i>Erdem Söztutar</i> <i>Edibe Bilişli</i> <i>Zeynep Odabaş</i> <i>Ahmet Saç</i> Group 4	Group 1A
15.00- 15.50	Group E	Group A	Independent Learning	Group 3	Group 1B
16.00- 16.50	Independent Learning	Independent Learning	Independent Learning	Group 2	Group 2A
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Group 1	Group 2B

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

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM
III. WEEK / 17 – 21 Jan 2022

	Monday 17-Jan-2022	Tuesday 18-Jan-2022	Wednesday 19-Jan-2022	Thursday 20-Jan-2022	Friday 21-Jan-2022
09.00- 09.50	Independent Learning	Assessment Session (Anatomy, Physiology, Biochemistry, Microbiology and Histology&Embryology Practical Exams)29 Mar	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50					Assessment Session Committee III (MCQ)
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break				Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee III Program <i>Secretary of the Committee</i>
14.00- 14.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
15.00- 15.50					
16.00- 16.50					
17.00-17.50					

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

MIDTERM BREAK: JANUARY 24 – FEBRUARY 4, 2022

COMMITTEE IV - NERVOUS SYSTEM DISTRIBUTION of LECTURE HOURS

FEBRUARY 7-APRIL 1, 2022
COMMITTEE DURATION: 8 WEEKS

MED 203	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	TOTAL
	DISCIPLINE			
	ANATOMY	43	4GX6H	67
	BIOPHYSICS	3	0	3
	BIOSTATISTICS	4	0	4
	HISTOLOGY & EMBRYOLOGY	13	5GX1H	18
	IMMUNOLOGY	2	0	2
	MEDICAL BIOLOGY	4	0	4
	PHARMACOLOGY	9	2GX1H	11
	PHYSIOLOGY	34	10GX3H	64
	SCIENTIFIC RESEARCH and PROJECT COURSE-II	0	5GrX3H	15
	PBL	6	0	6
	TOTAL	118	76	195
	INDEPENDENT LEARNING HOURS	123		

OTHER COURSES

MED 202	INTRODUCTION to CLINICAL PRACTICE- II	5	5GrX3H	20
MED 614-631	ELECTIVE COURSES	14	0	14

Coordination Committee	Head	Bayram YILMAZ, PhD Prof.
	Secretary	Deniz KIRAÇ, PhD Assoc. Prof
	Member	Mehtap KAÇAR, MD PhD Prof.
	Member	Sitki TIPLAMAZ, MD Assist. Prof.

**COMMITTEE IV- NERVOUS SYSTEM
LECTURERS**

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	LECTURERS
ANATOMY	Erdem SÖZTUTAR MD Assist. Prof. Aikaterini PANTELİ, MD Lecturer Mohammed ELGAZZAR, MD Lecturer LAB: Edibe BİLİŞLİ, DVM LAB: Zeynep Büşra ODABAŞ, DMD
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assoc. Prof.
BIostatISTICS	Çiğdem KELEŞ, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR PhD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD PhD Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof. Altay Burak DALAN, PhD Prof. Soner DOĞAN, PhD Prof. Deniz KIRAÇ, PhD Assoc. Prof. Seda GÜLEÇ YILMAZ, PhD Assoc. Prof.
PHARMACOLOGY	Ece GENÇ, PhD, Prof. Emine Nur ÖZDAMAR, MD, Assist. Prof. Cenk Andaç, PhD, Assist. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR, MD PhD Prof. Burcu GEMİCİ, PhD Assoc. Prof.
SCIENTIFIC RESEARCH AND PROJECT COURSE-II	Bayram YILMAZ, PhD Prof. Deniz KIRAÇ, PhD Assoc. Prof.
PBL	

OTHER COURSES

MED 202 INTRODUCTION TO CLINICAL PRACTICE II	
DISCIPLINE	LECTURERS
CLINICAL SKILLS LAB	Özlem TANRIÖVER, MD MPH Prof. Arzu AKALIN, MD Assist. Prof. Fatma Tuğba COŞKUN, MD. Alp Kayıran, MD. Pınar Tura, MD.
ELECTIVE COURSES	

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:

- 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 spinalcord,
 - 3.2. describe limbic and autonomic nervous system,
 - 3.3. describe the anatomy of structures forming eyes and ears,
 - 3.4. describe the anatomy of skin and its derivatives and the mammary glands
 - 3.5. describe descending and ascending pathways,
 - 3.6. associate with adjacent tissue and organs,
 - 3.7. 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,
 - 13.2. explain mechanisms and factors affecting distribution,
 - 13.3. explain mechanisms and factors affecting excretion.
 - 13.4. For drug pharmacokinetics;
 - 13.5. explain clinical importance,
- 14.0. 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. count biostatistical sampling methods.
- 19.0 explain the steps of a statistical hypothesis test according to the properties of a given data.
- 20.0 for statistical hypothesis,
 - 20.1 list the statistical hypothesis test according to the properties of given data
 - 20.2 choose the appropriate statistical hypothesis test according to the properties of given data.
- 21.0 explain case scenario related basic medical science topics in a clinical context.

COMMITTEE IV - NERVOUS SYSTEM COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRUBITION of MCQs and SbMCQ			
			CE	FE	IE	TOTAL
3.0., 21.0	ANATOMY	Dr. A. Panteli	39	17	17	73
1.0.	BIOPHYSICS	Dr. B. Güvenç Tuna	3	1	1	5
18.0-20.0	BIOSTATISTICS	Dr. E.Ç. Keleş	3	1	1	5
4.0., 21.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	10	4	4	18
15.0.	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	2	1	1	4
2.0.	MEDICAL BIOLOGY	Dr. T. İsbir Dr. A. B. Dalan	3	1	1	5
13.0-14.0.	PHARMACOLOGY	Dr. E. Genç Dr. Emine Nur Özdamar	8	3	3	14
5.0-12.0.,21.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar Dr. B. Gemici Başol	31	13	13	57
21.0	PBL		1	0	0	1
TOTAL			100	41/200#	41/200#	182

LEARNING OBJECTIVES	DISCIPLINE	POINTS of ASSESSMENT METHODS
		LPE
3.0.	ANATOMY	55
4.0.	HISTOLOGY & EMBRYOLOGY	10
13.0-14.0	PHARMACOLOGY	5
5.0-12.0.	PHYSIOLOGY	30
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 val

**COMMITTEE IV- NERVOUS SYSTEM
I. WEEK / 7-11 February 2022**

	Monday 7-Feb-2022	Tuesday 8-Feb-2022	Wednesday 9-Feb-2022	Thursday 10-Feb-2022	Friday 11-Feb-2022	
09.00-09.50	PBL	Lecture Spinal Cord <i>Aikaterini Panteli</i>	Lecture Test Hypotheses and Significance- Z-Test <i>Çiğdem Keleş</i>	Lecture Drug Metabolism <i>Ece Genç</i>	Independent Learning	
10.00-10.50		Lecture Spinal Cord <i>Aikaterini Panteli</i>	Lecture Test Hypotheses and Significance- Z-Test <i>Çiğdem Keleş</i>	Lecture Sensory Receptors and pathways <i>Bayram Yılmaz</i>	ICP MIDTERM EXAM	
11.00-11.50		Lecture Synapse and Neurotransmitters <i>Bayram Yılmaz</i>	Lecture Cranial Nerves <i>Aikaterini Panteli</i>	Lecture Peripheral Nervous System <i>Bayram Yılmaz</i>		
12.00-12.50	Introduction to Committee IV Secretary of Committee	Lecture Synapse and Neurotransmitters <i>Bayram Yılmaz</i>	Lecture Cranial Nerves <i>Aikaterini Panteli</i>	Independent Learning	Independent Learning	
13.00-13.50	Lunch Break					
14.00-14.50	Program Improvement Sessions	Lecture Brainstem <i>Aikaterini Panteli</i>	Lecture Cranial Nerves <i>Aikaterini Panteli</i>	Laboratory/ Anatomy Spinal Cord/Brainstem/Cranial Nerves <i>Aikaterini Panteli</i> Group 1	Elective Courses Week I	IL
15.00-15.50	Lecture Introduction to Neuroanatomy <i>Aikaterini Panteli</i>	Lecture Brainstem <i>Aikaterini Panteli</i>	Lecture Cranial Nerves <i>Aikaterini Panteli</i>	Group 2		
16.00-16.50	Lecture Organization of Nervous System <i>Bayram Yılmaz</i>	Lecture Brainstem <i>Aikaterini Panteli</i>	Lecture Drug Distribution <i>Ece Genç</i>	Group 3	IL	Elective Courses Week I
17.00-17.50	Lecture Neuron and Neuroglia <i>Bayram Yılmaz</i>	Lecture Scope of Pharmacology and Passage of Drugs Across Membranes <i>Ece Genç</i>	Lecture Drug Distribution <i>Ece Genç</i>	Group 4		

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

COMMITTEE IV- NERVOUS SYSTEM
II. WEEK / 14-18 February 2022

	Monday 14-Feb-2022	Tuesday 15-Feb-2022	Wednesday 16-Feb-2022	Thursday 17-Feb-2022	Friday 18-Feb-2022			
09.00-09.50	PBL	Lecture Cerebellum <i>Aikaterini Panteli</i>	Independent Learning	Laboratory / Anatomy Cerebellum/ Diencephalon/Basal Ganglia <i>Aikaterini Panteli</i> Group 1	Lecture Electrical Activity of Cortex and Evoked Potentials. Neural Coding <i>Bilge Güvenç Tuna</i>			
10.00-10.50		Lecture Cerebellum <i>Aikaterini Panteli</i>	Laboratory / Pharmacology Drug Metabolism <i>Ece Genç & Emine Özdamar & Cenk Andaç</i> Group 1,2	Group 2	Lecture Histology of CNS; PNS, Meninges and Spinal Cord <i>Aylin Yaba Uçar</i>			
11.00-11.50		Lecture Cutaneous Senses <i>Bayram Yılmaz</i>	Group 3,4	Group 3	Lecture Development of Central Nervous System; Early Stages <i>Aylin Yaba Uçar</i>			
12.00-12.50	Independent Learning	Lecture Cutaneous Senses <i>Bayram Yılmaz</i>	Independent Learning	Group 4	Independent Learning			
13.00-13.50	Lunch Break							
14.00-14.50	ICP LECTURE Intramuscular/ Intradermal/ Subcutan Injection Group D <i>Özlem Tanrıöver / Arzu Akalın</i>	Lecture Histology of CNS; PNS, Meninges and Spinal Cord <i>Aylin Yaba Uçar</i>	Lecture Physiology of Pain <i>Bayram Yılmaz</i>	ICP LECTURE Intramuscular/ Intradermal/ Subcutan Injection Group E <i>Özlem Tanrıöver / Arzu Akalın</i>	Elective Courses Week II	IL		
15.00-15.50	Group D <i>Özlem Tanrıöver / Arzu Akalın / Pınar Tura</i>	SRPC SGS Group B <i>Deniz Kiraç</i>	Lecture Diencephalon <i>Aikaterini Panteli</i>	Lecture Physiology of Pain <i>Bayram Yılmaz</i>	Group E <i>Özlem Tanrıöver / Arzu Akalın / Cem Şimşek</i>	SRPC SGS Group C <i>Deniz Kiraç</i>	Elective Courses Week II	
16.00-16.50			Lecture Diencephalon <i>Aikaterini Panteli</i>	Lecture Basal Ganglia <i>Aikaterini Panteli</i>			IL	Elective Courses Week II
17.00-17.50			Lecture Diencephalon <i>Aikaterini Panteli</i>	Lecture Basal Ganglia <i>Aikaterini Panteli</i>			IL	Elective Courses Week II

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

**COMMITTEE IV- NERVOUS SYSTEM
III. WEEK / 21-25 February 2022**

	Monday 21-Feb-2022	Tuesday 22-Feb-2022	Wednesday 23-Feb-2022	Thursday 24-Feb-2022	Friday 25-Feb-2022	
09.00-09.50	Lecture Electrical Activity of Cortex and Evoked Potentials. Neural Coding <i>Bilge Güvenç Tuna</i>	Lecture Limbic System <i>Aikaterini Panteli</i>	Laboratory / Physiology Reflexes- Electroencephalography <i>Bayram Yılmaz & Mehtap Kaçar & Burcu G.Başol</i> Group 2A	Lecture Neuroimmunology <i>Gülderen Yanıkkaya Demirel</i>	Independent Learning	
10.00-10.50	Lecture Telencephalon <i>Aikaterini Panteli</i>	Lecture Limbic System <i>Aikaterini Panteli</i>	Group 2B	Lecture Cortical and Brainstem Control of Motor Function <i>Bayram Yılmaz</i>	Lecture Development of Central Nervous System; Late Stages <i>Aylin Yaba Uçar</i>	
11.00-11.50	Lecture Telencephalon <i>Aikaterini Panteli</i>	Lecture Biology of Nervous System <i>Altay Burak Dalan</i>	Group 1A	Lecture Cortical and Brainstem Control of Motor Function <i>Bayram Yılmaz</i>	Lecture Congenital Anomalies of Nervous System <i>Aylin Yaba Uçar</i>	
12.00-12.50	Lecture Telencephalon <i>Aikaterini Panteli</i>	Lecture Biology of Nervous System <i>Altay Burak Dalan</i>	Group 1B	Independent Learning	Independent Learning	
13.00-13:50	Lunch Break					
14.00-14.50	Lecture Motor Functions of Spinal Cord <i>Bayram Yılmaz</i>	Laboratory / Physiology Reflexes- Electroencephalography <i>Bayram Yılmaz & Mehtap Kaçar & Burcu G.Başol</i> Group 3A	ICP LECTURE Intramuscular/ Intradermal/ Subcutan Injection Group A <i>Özlem Tanrıöver/ Arzu Akalın</i>	ICP LECTURE Intramuscular/ Intradermal/ Subcutan Injection Group B <i>Özlem Tanrıöver/ Arzu Akalın</i>	Elective Courses Week III	IL
15.00-15.50	Lecture Motor Functions of Spinal Cord <i>Bayram Yılmaz</i>	Group 3B	ICP Intramuscular/ Intradermal/ Subcutan Injection Group A <i>Özlem Tanrıöver/ Arzu Akalın/ Gözde Şen</i>	ICP Intramuscular/ Intradermal/ Subcutan Injection Group B <i>Özlem Tanrıöver/ Arzu Akalın/ Pınar Tura</i>		
16.00-16.50	Lecture Dopamine and Drugs Effecting Dopaminergic System <i>Emine Nur Özdamar</i>	Group 4A			SRPC SGS Group D <i>Deniz Kıraç</i>	SRPC SGS Group A <i>Deniz Kıraç</i>
17.00-17.50	Lecture Serotonin and Drugs Effecting Serotonergic System of CNS <i>Emine Nur Özdamar</i>	Group 4B				

**COMMITTEE IV- NERVOUS SYSTEM
IV. WEEK / 22 February- 4 March 2022**

	Monday 28-Feb-2022	Tuesday 1-Mar-2022	Wednesday 2-Mar-2022	Thursday 3-Mar-2022	Friday 4-Mar-2022	
09.00-09.50	Lecture Ascending and Descending Pathways of the CNS <i>Aikaterini Panteli</i>	Lecture Vasculature of the CNS <i>Aikaterini Panteli</i>	Independent Learning	Lecture Eye and Orbit <i>Aikaterini Panteli</i>	Lecture Drug Excretion <i>Ece Genç</i>	
10.00-10.50	Lecture Ascending and Descending Pathways of the CNS <i>Aikaterini Panteli</i>	Lecture Vasculature of the CNS <i>Aikaterini Panteli</i>	Lecture States of Brain Activity- Sleep and Brain Waves <i>Bayram Yılmaz</i>	Lecture Eye and Orbit <i>Aikaterini Panteli</i>	Lecture Drug Excretion <i>Ece Genç</i>	
11.00-11.50	Lecture Functions of Cerebellum and Basal Ganglia in motor control <i>Bayram Yılmaz</i>	Lecture Correlation <i>Çiğdem Keleş</i>	Lecture States of Brain Activity- Sleep and Brain Waves <i>Bayram Yılmaz</i>	Lecture Visual Pathways <i>Aikaterini Panteli</i>	Lecture Development of Sensory Organs; Eye <i>Alev Cumbul</i>	
12.00-12.50	Lecture Functions of Cerebellum and Basal Ganglia in Motor Control <i>Bayram Yılmaz</i>	Lecture Correlation <i>Çiğdem Keleş</i>	Independent Learning	Independent Learning	Independent Learning	
13.00-13:50	Lunch Break					
14.00-14.50	Lecture Biology of Nervous System <i>Turgay İsbir</i>	Laboratory / Anatomy Telencephalon/ Limbic System /CNS Vessels/Dural Sinuses/Meninges/Ventricles <i>Aikaterini Panteli</i> Group 3	ICP LECTURE Intramuscular/ Intradermal/ Subcutan Injection Group C <i>Özlem Tanrıöver/ Arzu Akalın</i>	ICP LECTURE IV Cannulation Group E <i>Özlem Tanrıöver/ Arzu Akalın</i>	Elective Courses Week IV	IL
15.00-15.50	Lecture Biology of Nervous System <i>Turgay İsbir</i>	Group 4	ICP Intramuscular/ Intradermal/ Subcutan Injection Group C <i>Özlem Tanrıöver/ Arzu Akalın/ Gözde Şen</i>	SRPC SGS Group E <i>Deniz Kıraç</i>		
16.00-16.50	Lecture Meninges and Dural Venous Sinuses <i>Aikaterini Panteli</i>	Group 1			IL	Elective Courses Week IV
17.00-17.50	Lecture Meninges and Dural Venous Sinuses <i>Aikaterini Panteli</i>	Group 2				

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

**COMMITTEE IV – NERVOUS SYSTEM
V. WEEK / 7-11 March 2022**

	Monday 7-Mar-2022	Tuesday 8-Mar-2022	Wednesday 9-Mar-2022	Thursday 10-Mar-2022	Friday 11-Mar-2022	
09.00-09.50	Lecture Histology of Sensory Organs; Eye; Fibrous and Vascular Coat <i>Alev Cumbul</i>	Lecture Physiology of Vision <i>Mehtap Kaçar</i>	Laboratory / Physiology Visual Examination & Tests <i>Bayram Yılmaz & Mehtap Kaçar & Burcu G. Başol</i> Group 3A	Lecture Drug Application Routes and Pharmaceutical Forms of Drugs <i>Emine Nur Özdamar</i>	Lecture Physiology of Hearing <i>Burcu Gemici Başol</i>	
10.00-10.50	Lecture Histology of Sensory Organs; Eye; Nervous Coat and Appendix <i>Alev Cumbul</i>	Lecture Physiology of Vision <i>Mehtap Kaçar</i>	Group 3B	Lecture Histology of Ear <i>Alev Cumbul</i>	Lecture Taste and Smell Pathways <i>Aikaterini Panteli</i>	
11.00-11.50	Lecture Cerebral Cortex, Intellectual Functions of the Brain <i>Bayram Yılmaz</i>	Lecture Physiology of Hearing <i>Burcu Gemici Başol</i>	Group 1A	Lecture Histology of Ear <i>Alev Cumbul</i>	Lecture Taste and Smell Pathways <i>Aikaterini Panteli</i>	
12.00-12.50	Lecture Learning and Memory <i>Bayram Yılmaz</i>	Independent Learning	Group 1B	Independent Learning	Independent Learning	
13.00-13.50	Lunch Break					
14.00-14.50	Lecture Physiology of Vision <i>Mehtap Kaçar</i>	Laboratory / Physiology Visual Examination & Tests <i>Bayram Yılmaz & Mehtap Kaçar & Burcu G. Başol</i> Group 4A	ICP LECTURE IV Cannulation Group A <i>Özlem Tanrıöver/Arzu Akalın</i>	ICP LECTURE IV Cannulation Group B <i>Özlem Tanrıöver/ Arzu Akalın</i>	Elective Courses Week V	IL
15.00-15.50	Lecture Physiology of Vision <i>Mehtap Kaçar</i>	Group 4B	ICP IV Cannulation Group A <i>Özlem Tanrıöver / Arzu Akalın/ Tuba Coşkun</i>	SRPC SGS Group C <i>Deniz Kıraç</i>		
16.00-16.50	Lecture Neuroimmunology <i>Gülderen Yanıkkaya Demirel</i>	Group 2A			ICP IV Cannulation Group B <i>Özlem Tanrıöver / Arzu Akalın/ Cem Şimşek</i>	SRPC SGS Group D <i>Deniz Kıraç</i>
17.00-17.50	Independent Learning	Group 2B				

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

**COMMITTEE IV- NERVOUS SYSTEM
VI.WEEK / 14-18 March 2022**

	Monday 14-Mar-2022	Tuesday 15-Mar-2022	Wednesday 16-Mar-2022	Thursday 17-Mar-2022	Friday 18-Mar-2022		
09.00-09.50	Lecture Auditory System Biophysics and Function <i>Bilge Güvenç Tuna</i>	Lecture Chemical Senses: Taste and Smell <i>Burcu Gemici Başol</i>	Lecture Parasympathetic Nervous System <i>Aikaterini Panteli</i>	Lecture Autonomic Nervous System <i>Bayram Yılmaz</i>	Lecture Cerebrospinal Fluid and Brain Metabolism <i>Bayram Yılmaz</i>		
10.00-10.50	Lecture Ear <i>Aikaterini Panteli</i>	Lecture Chemical Senses: Taste and Smell <i>Burcu Gemici Başol</i>	Lecture Parasympathetic Nervous System <i>Aikaterini Panteli</i>	Lecture Autonomic Nervous System <i>Bayram Yılmaz</i>	Lecture Cerebrospinal Fluid and Brain Metabolism <i>Bayram Yılmaz</i>		
11.00-11.50	Lecture Ear <i>Aikaterini Panteli</i>	Lecture Limbic System and the Hypothalamus <i>Bayram Yılmaz</i>	Lecture Skin, its derivatives and the Mammary Glands <i>Aikaterini Panteli</i>	Lecture Development of Sensory Organs; Ear <i>Alev Cumbul</i>	Lecture Histology of Skin and Appendage; Epidermis, Dermis, Appendage <i>Aylin Yaba Uçar</i>		
12.00-12.50	Lecture Auditory Pathways <i>Aikaterini Panteli</i>	Lecture Limbic System and the Hypothalamus <i>Bayram Yılmaz</i>	Independent Learning	Independent Learning	Lecture Development of Skin and Appendage <i>Aylin Yaba Uçar</i>		
13.00-13.50	Lunch Break						
14.00-14.50	PHYSICIANS DAY	Lecture Introduction to Autonomic Nervous System <i>Aikaterini Panteli</i>	ICP LECTURE IV Cannulation Group C <i>Özlem Tanrıöver/Arzu Akalın</i>		ICP LECTURE IV Cannulation Group D <i>Özlem Tanrıöver/Arzu Akalın</i>	Elective Courses Week VI	IL
15.00-15.50		Lecture Sympathetic Nervous System <i>Aikaterini Panteli</i>	ICP IV Cannulation Group C <i>Özlem Tanrıöver / Arzu Akalın/ Alp Kayıran</i>	SRPC SGS Group A <i>Deniz Kıraç</i>	ICP IV Cannulation Group D <i>Özlem Tanrıöver / Arzu Akalın/ Alp Kayıran</i>		
16.00-16.50		Lecture Sympathetic Nervous System <i>Aikaterini Panteli</i>				IL	Elective Courses Week VI
17.00-17.50		Independent Learning					

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

COMMITTEE IV- NERVOUS SYSTEM
VII.WEEK / 21-25 March 2022

	Monday 21-Mar-2022	Tuesday 22-Mar-2022	Wednesday 23-Mar-2022	Thursday 24-Mar-2022	Friday 25-Mar 2022	
09.00-09.50	Independent Learning	Laboratory/ Physiology Hearing test /Galvanized Skin Response Group 3A <i>Bayram Yılmaz & Mehtap Kaçar & Burcu Gemici Başol</i>	Independent Learning	Laboratory / Anatomy Eye and Orbit <i>Aikaterini Panteli</i> Group 1	Independent Learning	
10.00-10.50	Laboratory / Histology& Embryology Histology of CNS and Skin <i>Alev Cumbul & Aylin Yaba Uçar</i> Group B	Group 3B	Independent Learning	Group 2	Independent Learning	
11.00-11.50	Group A	Group 4A	Laboratory/ Physiology Hearing test /Galvanized Skin Response <i>Bayram Yılmaz & Mehtap Kaçar & Burcu Gemici Başol</i> Group 1A	Group 3	Independent Learning	
12.00-12.50	Group C	Group 4B	Group 1B	Group 4	Independent Learning	
13.00-13.50	Lunch Break					
14.00-14.50	Group E	Group 2A	Laboratory / Anatomy Skin And Mammary Glands/Sympathetic Parasympathetic N.S <i>Aikaterini Panteli</i> Group 1	Laboratory / Anatomy Ear and Auditory Pathways <i>Aikaterini Panteli</i> Group 1	Elective Courses Week VII (Midterm)	IL
15.00-15.50	Group D	Group 2B	Group 2	Group 2		
16.00-16.50	Independent Learning	Independent Learning	Group 3	Group 3	IL	Elective Courses Week VII
17.00-17.50	Independent Learning	Independent Learning	Group 4	Group 4		

**COMMITTEE IV- NERVOUS SYSTEM
VIII.WEEK / 28 March – 1 April 2022**

	Monday 28-Mar-2022	Tuesday 29-Mar-2022	Wednesday 30-Mar-2022	Thursday 31-Mar-2022	Friday 1-Apr-2022		
09.00-09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning		
10.00-10.50		Assessment Session (Physiology, Pharmacology, Histology&Embryology and Anatomy Practical Exams)			Independent Learning	Independent Learning	Assessment Session Committee IV Exam (MCQ)
11.00-11.50							
12.00-12.50							
13.00-13.50	Lunch Break				Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee IV Program <i>Secretary of Committee IV</i>		
14.00-14.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Elective Courses Week VIII	IL	
15.00-15.50							
16.00-16.50					IL	Elective Courses Week VIII	
17.00-17.50							

COMMITTEE V - UROGENITAL and ENDOCRINE SYSTEMS
DISTRIBUTION of LECTURE HOURS

April 4th – June 3rd, 2022

COMMITTEE DURATION: 9 WEEKS

MED 203	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	TOTAL
	DISCIPLINE			
	ANATOMY	15	4Gr x 4H	31
	BIOCHEMISTRY	22	1Gr x 2H	24
	BIOPHYSICS	3	0	3
	BIOSTATISTICS	4	1Gr x 2H	6
	HISTOLOGY & EMBRYOLOGY	14	5Gr x 2H	24
	IMMUNOLOGY	1	0	1
	MEDICAL BIOLOGY	6	0	6
	MEDICAL MICROBIOLOGY	16	8Gr x 1H	24
	PATHOLOGY	7	1Gr x 1H	8
	PHARMACOLOGY	13	1Gr x 2H	15
	PHYSIOLOGY	32	8Gr x 1H 1G x 2H	42
	SCIENTIFIC RESEARCH and PROJ+ECT COURSE-II	0	5Gr x 3H	15
	PBL	6	0	6
	TOTAL	139	66	205
	INDEPENDENT LEARNING HOURS			83

OTHER COURSES

MED 202	INTRODUCTION to CLINICAL PRACTICE- II	5	5 Gr x 3	20
MED 614- 631	ELECTIVE COURSES	14	0	14

Coordination Committee	Head	Bayram YILMAZ, PhD Prof.
	Secretary	Soner DOGAN, PhD, Prof.
	Member	Bilge Guvenc TUNA, PhD, Assoc. Prof.
	Member	Akif MAHARRAMOV, PhD, Assist. Prof.

**COMMITTEE V- UROGENITAL and ENDOCRINE SYSTEMS
LECTURERS**

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	LECTURERS
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof. Mohammed Elgazzar, MD. Lecturer. Aikaterini PANTELİ, MD, Assist. Prof. LAB: Edibe BİLİŞLİ, DVM LAB: Zeynep Büşra ODABAŞ, DMD
BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof. LAB: Jale ÇOBAN, MD, Prof. LAB: Müge KOPUZ, PhD.
BIOPHYSICS	Akif MAHARRAMOV, PhD, Assist. Prof. Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
BIOSTATISTIC	E. Çiğdem KELEŞ, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Assoc. Prof. Alev CUMBUL, PhD, Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Assoc. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof. Deniz KIRAÇ, PhD, Assoc. Prof.
MICROBIOLOGY	Güner Söyletir, MD, Prof.
PATHOLOGY	Aydın SAV MD, Prof.
PHARMACOLOGY	Ece GENÇ, PhD, Prof. Emine Nur ÖZDAMAR, MD, Assist. Prof. Cenk Andaç MD, Assist. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof. Mehtap KAÇAR, MD, PhD, Prof. Burcu GEMİCİ, PhD, Assoc. Prof.
PBL	
SCIENTIFIC PROJECTS-II	Bayram YILMAZ, PhD, Prof. Deniz KIRAÇ, PhD, Assoc. Prof.
ELECTIVE COURSES	

MED 202 INTRODUCTION TO CLINICAL PRACTICE II	
DISCIPLINE	LECTURERS
CLINICAL SKILLS LAB	Özlem TANRIÖVER, MD, Prof. A. Arzu AKALIN, MD, Assist. Prof. Alp KAYIRAN, MD. Assist. Prof. Pınar TURA, MD. Assist. Prof. F. Tuğba COŞKUN, MD Assist. Prof.

COMMITTEE V-UROGENITAL AND ENDOCRINE SYSTEMS

AIM AND LEARNING OBJECTIVES

AIMS

1. 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.
4. 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:

- 1.0. Describe biology of gonadal development and genetic differentiation.
- 2.1. In urogenital system, for male and female genital system organs, kidney, ureter, bladder, urethra, pelvis and perineum;
 - 2.2. Describe its anatomy,
 - 2.3. Associate with adjacent tissue and organs,
 - 2.4. Explain their functional and clinical reflections.
- 3.1. In endocrine system, for thyroid, parathyroid, suprarenal gland and thymus,
 - 3.2. Describe its anatomy,
 - 3.3. Associate with adjacent tissue and organs,
 - 3.4. Explain their functional and clinical reflections.
- 4.0. For endocrine system;
 - 4.1. classify embryological origins and explain developmental stages of Organs,
 - 4.2. Associate the relation between birth anomalies and developmental processes.
 - 4.3. Describe histological properties of endocrine system
- 5.1. For urogenital systems;
 - 5.2. Classify embryological origins and explain developmental stages of urogenital system organs,
 - 5.3. Associate the relation between birth anomalies and developmental processes.,
 - 5.4. Describe histological properties of Urinary system,
 - 5.5. Describe histological properties of Genital system.
- 6.1. In endocrine system;
 - 6.2. Describe endocrine, paracrine and neuroendocrine secretion,
 - 6.3. Explain the regulatory role of hypothalamus and pituitary gland,
 - 6.4. List secretions and functions of endocrine glands and organs.
- 7.1. In urinary system;
 - 7.2. Explain renal function and structure of nephrons,
 - 7.3. Explain renal blood flow and mechanisms of urine production,
 - 7.4. Explain liquid-electrolyte and acid-base equilibrium.
- 8.1. In genital system;
 - 8.2. Explain reproductive hormones and their functions in men and women,
 - 8.3. Describe changes in the maternal body in pregnancy and lactation.
- 9.1. For hormones;
 - 9.2. Classify according to mechanisms of action,
 - 9.3. 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 and pathogenesis of viruses
- 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	DISTRUBITION of MCQsand SbMCQ			
			CE	FE	IE	TOTAL
2.0-3.0,22.0	ANATOMY	Dr. M. Elgazzar	11	6	6	23
9.0-10.0	BIOCHEMISTRY	Dr. İ. Özden	18	8	8	34
19.0	BIOPHYSICS	Dr. B.G. Tuna	2	1	1	4
20.0-21.0	BIostatISTICS	Dr. E.Ç. KELEŞ	3	1	1	5
4.0.-5.0-23	HISTOLOGY& EMBRYLOGY	Dr. A. Yaba Uçar Dr. A. Cumbul	10	5	5	20
18.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	1	1	1	3
1.0	MEDICAL BIOLOGY	Dr.T.İsbir Dr.D. Kıraç	4	2	2	8
17.0	MEDICAL MICROBIOLOGY	Dr. Güner Söyletir	13	6	6	25
11.0	PATHOLOGY	Dr. A. Sav	5	2	2	9
12.0-16.0	PHARMACOLOGY	Dr. E. Genç Dr. E. N. Özdamar Dr. C. Andaç	9	4	4	17
6.0-8.0., 22.0.	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar Dr. B. Gemici Başol	23	10	10	43
22.0	PBL		1	0	0	1
TOTAL			100	46/200[#]	46/200[#]	192

LEARNING OBJECTIVES	DISCIPLINE	POINTS of ASSESSMENT METHODS	
		LPE	
2.0-3.0	ANATOMY		30
8.0-9.0	BIOCHEMISTRY		5
	BIostatISTICS		5
4.0.	HISTOLOGY & EMBRYLOGY		10
16.0.	MEDICAL MICROBIOLOGY		10
10.0.	PATHOLOGY		5
11.0-15.0.	PHARMACOLOGY		5
5.0-7.0	PHYSIOLOGY		30
TOTAL			100

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

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 value)

COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS
I. WEEK / 4 – 8 April 2022

	Monday 4-Apr-2022	Tuesday 5-Apr-2022	Wednesday 6-Apr-2022	Thursday 7-Apr-2022	Friday 8-Apr-2022	
09.00- 09.50	PBL	Lecture The Kidneys <i>Mohammed Elgazzar</i>	Lecture Mechanism of Drug Action 1 <i>Ece Genç</i>	Lecture DNA Viruses I <i>Güner Söyletir</i>	Introduction to Neoplasia and Biologic Behaviors of Neoplasm <i>Aydın Sav</i>	
10.00- 10.50		Lecture Urinary Tracts and Suprarenal Glands <i>Mohammed Elgazzar</i>	Lecture Mechanism of Drug Action 2 <i>Ece Genç</i>	Lecture DNA Viruses II <i>Güner Söyletir</i>	Introduction to Neoplasia and Biologic Behaviors of Neoplasm <i>Aydın Sav</i>	
11.00- 11.50		Lecture Body Fluids and Functions of Kidneys <i>Bayram Yılmaz</i>	Lecture Histology of Urinary System: General Aspect, Kidney Nephron <i>Aylin Yaba Uçar</i>	Lecture Urine Formation: Tubular Processing <i>Bayram Yılmaz</i>	Lecture Histology of Endocrine System: Hypophysis <i>Aylin Yaba Uçar</i>	
12.00- 12.50	Introduction to Committee V Secretary of Committee	Lecture Micturition <i>Bayram Yılmaz</i>	Lecture Histology of Urinary System: Excretory Passage <i>Aylin Yaba Uçar</i>	Lecture Urine Formation: Tubular Processing <i>Bayram Yılmaz</i>	Lecture Histology of Endocrine System: Thyroid and Parathyroid and Suprarenal Glands <i>Aylin Yaba Uçar</i>	
13.00- 13.50	Lunch Break					
14.00- 14.50	Lecture Introduction to Urinary System <i>Mohammed Elgazzar</i>	Lecture Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors <i>İnci Özden</i>	Lecture Urine Formation and Renal Blood Flow <i>Bayram Yılmaz</i>	Lecture Histology of Endocrine System: General Aspect, Hypothalamus, Epiphysis <i>Aylin Yaba Uçar</i>	Elective Courses Week IX	IL
15.00- 15.50	Lecture The Kidneys <i>Mohammed Elgazzar</i>	Lecture Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors <i>İnci Özden</i>	Lecture Urine Formation and Renal Blood Flow <i>Bayram Yılmaz</i>	Lecture Male Genital Organs <i>Mohammed Elgazzar</i>		
16.00- 16.50	Lecture Introduction to Viruses <i>Güner Söyletir</i>	Lecture Biology of Sexual Differentiation And Development <i>Turgay İsbir</i>	Lecture Introduction to Genital Systems <i>Mohammed Elgazzar</i>	Lecture Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors <i>İnci Özden</i>	IL	Elective Courses Week IX
17.00-17.50	Lecture Viral Pathogenesis/ Oncogenesis <i>Güner Söyletir</i>	Lecture Biology of Sexual Differentiation And Development <i>Turgay İsbir</i>	Lecture Male Genital Organs <i>Mohammed Elgazzar</i>	Lecture Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors <i>İnci Özden</i>		

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

COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS
II.WEEK / 11 – 15 April 2022

	Monday 11-Apr-2022	Tuesday 12-Apr-2022	Wednesday 13-Apr-2022	Thursday 14-Apr-2022	Friday 15-Apr-2022
09.00- 09.50	PBL	Lecture Hormones of Hypothalamus and Pituitary <i>Inci Özden</i>	Lecture Development of Genital System; General Aspects <i>Alev Cumbul</i>	Lecture Biology of Endocrine System <i>Deniz Kıraç</i>	Lecture Adrenocortical Hormones <i>Mehtap Kaçar</i>
10.00- 10.50		Lecture Hormones of Hypothalamus and Pituitary <i>Inci Özden</i>	Lecture Histology of Male Genital System: Testis <i>Alev Cumbul</i>	Lecture Biology of Endocrine System <i>Deniz Kıraç</i>	Lecture Adrenocortical Hormones <i>Mehtap Kaçar</i>
11.00- 11.50		Lecture Fluid and Electrolyte Balance <i>Bayram Yılmaz</i>	Lecture Regulation of Acid-Base Balance <i>Bayram Yılmaz</i>	Lecture Hormones of Adrenal Cortex and Adrenal Medulla <i>Inci Özden</i>	Lecture Nerves of the Pelvis <i>Mohammed Elgazzar</i>
12.00- 12.50	Independent Learning	Lecture Fluid and Electrolyte Balance <i>Bayram Yılmaz</i>	Lecture Regulation of Acid-Base Balance <i>Bayram Yılmaz</i>	Lecture Hormones of Adrenal Cortex and Adrenal Medulla <i>Inci Özden</i>	Lecture Vasculature of the Pelvis <i>Mohammed Elgazzar</i>
13.00- 13.50	LUNCH BREAK				
14.00- 14.50	Lecture Hormones of Hypothalamus and Pituitary <i>Inci Özden</i>	Lecture DNA Viruses III <i>Güner Söyletir</i>	Lecture Introduction to Endocrinology <i>Mehtap Kaçar</i>	Lecture RNA Viruses I <i>Güner Söyletir</i>	Elective Courses Week X
15.00- 15.50	Lecture Thyroid Hormones <i>Inci Özden</i>	Lecture DNA Viruses IV <i>Güner Söyletir</i>	Lecture Pituitary Gland and Hypothalamic Control <i>Mehtap Kaçar</i>	Lecture RNA Viruses II <i>Güner Söyletir</i>	
16.00- 16.50	Lecture Biology of Sexual Differentiation And Development <i>Turgay İsbir</i>	Lecture DNA Viruses V <i>Güner Söyletir</i>	Lecture Female Genital Organs <i>Mohammed Elgazzar</i>	Lecture Posterior Pituitary Hormones <i>Mehtap Kaçar</i>	IL
17.00-17.50	Lecture Biology of Sexual Differentiation And Development <i>Turgay İsbir</i>	Lecture Post-receptor Events and Second Messengers <i>Cenk Andaç</i>	Lecture Female Genital Organs <i>Mohammed Elgazzar</i>	Lecture Thyroid Metabolic Hormones <i>Mehtap Kaçar</i>	

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

COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS
III. WEEK / 18 – 22 April 2022

	Monday 18-Apr-2022	Tuesday 19-Apr-2022	Wednesday 20-Apr-2022	Thursday 21-Apr-2022	Friday 22-Apr-2022		
09.00- 09.50	Lecture Introduction to Rational Pharmacotherapy <i>Emine Nur Özdamar</i>	Lecture Histology of Male Genital System: Excretory Parts <i>Alev Cumbul</i>	Lecture Insulin, Diabetes Mellitus <i>Mehtap Kaçar</i>	Lecture Physiology of Growth Hormones <i>Bayram Yılmaz / Mehtap Kaçar</i>	Lecture Analysis of Variance and Multiple Comparisons <i>E. Çiğdem Keleş</i>		
10.00- 10.50	Lecture Eicosanoids <i>Emine Nur Özdamar</i>	Lecture Histology of the Female Genital System: Ovaries <i>Alev Cumbul</i>	Lecture Insulin, Diabetes Mellitus <i>Mehtap Kaçar</i>	Lecture Pineal Gland & Melatonin <i>Bayram Yılmaz</i>	Lecture Analysis of Variance and Multiple Comparisons <i>E. Çiğdem Keleş</i>		
11.00- 11.50	Lecture PTH, Calcitonin, Calcitriol <i>Inci Özden</i>	Lecture Diagnostic Methods in Virology <i>Güner Söyletir</i>	Lecture Linear Regression <i>E. Çiğdem Keleş</i>	Lecture Viral Oncogenesis <i>Güner Söyletir</i>	Lecture Male Reproductive Physiology <i>Mehtap Kaçar</i>		
12.00- 12.50	Lecture PTH, Calcitonin, Calcitriol <i>Inci Özden</i>	Lecture Specific Viruses <i>Güner Söyletir</i>	Lecture Linear Regression <i>E. Çiğdem Keleş</i>	Lecture Prions <i>Güner Söyletir</i>	Lecture Male Reproductive Physiology <i>Mehtap Kaçar</i>		
13.00- 13.50	LUNCH BREAK						
14.00- 14.50	Lecture Vaccines <i>Güner Söyletir</i>	Lecture RNA Viruses IV <i>Güner Söyletir</i>	ICP LECTURE Intraarterial Blood Sampling <i>Mehmet Akif Öztürk/Tijen Alkan Bozkaya/ Seha Akduman</i> Group D	ICP LECTURE Intraarterial Blood Sampling <i>Mehmet Akif Öztürk/ Özlem Durmuş Arın/ Banu Salepçi</i> Group E	Elective Courses Week XI		
15.00- 15.50	Lecture RNA Viruses III <i>Güner Söyletir</i>	Lecture Oncogenesis, Incidence and Distribution of Cancer <i>Aydın Sav</i>	<i>Mehmet Akif Öztürk, Tijen Alkan Bozkaya, Seha Akduman</i> Group D	SRPC SGS Group B <i>Deniz Kıraç</i>	<i>Mehmet Akif Öztürk, Özlem Durmuş Arın, Banu Salepçi</i> Group E	SRPC SGS Group C <i>Deniz Kıraç</i>	IL
16.00- 16.50	Lecture Regulation of Calcium & Phosphate Metabolism and Bone Formation <i>Bayram Yılmaz</i>	Lecture Oncogenesis, Incidence and Distribution of Cancer <i>Aydın Sav</i>					IL
17.00-17.50	Lecture Regulation of Calcium & Phosphate Metabolism and Bone Formation <i>Bayram Yılmaz</i>	Independent Learning					Elective Courses Week XI

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

COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS
IV.WEEK / 25 – 29 April 2022

	Monday 25-Apr-2022	Tuesday 26-Apr-2022	Wednesday 27-Apr-2022	Thursday 28-Apr-2022	Friday 29-Apr-2022			
09.00- 09.50	Lecture Introduction to Drug Development <i>Cenk Andaç</i>	Lecture Female Reproductive Physiology <i>Mehtap Kaçar</i>	Lecture Vitamins <i>Inci Özden</i>	Lecture Regulation of Calcium & Phosphate Metabolism and Bone Formation <i>Bayram Yılmaz</i>	Lecture Insulin, Glucagon <i>Inci Özden</i>			
10.00- 10.50	Lecture Development of Biopharmaceuticals <i>Cenk Andaç</i>	Lecture Female Reproductive Physiology <i>Mehtap Kaçar</i>	Lecture Vitamins <i>Inci Özden</i>	Lecture Regulation of Calcium & Phosphate Metabolism and Bone Formation <i>Bayram Yılmaz</i>	Lecture Insulin, Glucagon <i>Inci Özden</i>			
11.00- 11.50	Lecture Insulin, Glucagon <i>Inci Özden</i>	Lecture Minerals <i>Inci Özden</i>	Lecture Pregnancy and Lactation <i>Mehtap Kaçar</i>	Lecture Endocrine Organs <i>Mohammed Elgazzar</i>	Lecture Drug Toxicity 1 <i>Cenk Andaç</i>			
12.00- 12.50	Lecture Insulin, Glucagon <i>Inci Özden</i>	Lecture Minerals <i>Inci Özden</i>	Lecture Pregnancy and Lactation <i>Mehtap Kaçar</i>	Lecture Endocrine Organs <i>Mohammed Elgazzar</i>	Lecture Drug Toxicity 2 <i>Cenk Andaç</i>			
13.00- 13.50	Lunch Break							
14.00- 14.50	Lecture Histology of the Female Genital System: Conducting Part <i>Alev Cumbul</i>	Lecture Seeing with Sound: Images from Echoes (Diagnostic Ultrasound Imaging) <i>Bilge Güvenç Tuna</i>	ICP LECTURE Intraarterial Blood Sampling <i>Mehmet Akif Öztürk, Özlem Durmuş Arın, Seha Akduman</i> Group A		ICP LECTURE Intraarterial Blood Sampling <i>Mehmet Akif Öztürk, Özlem Durmuş Arın, Tijen Alkan Bozkaya</i> Group B			
15.00- 15.50	Lecture Development of Urinary System and Anomalies <i>Alev Cumbul</i>	Lecture Pharmacogenetics & Pharmacogenomics <i>Ece Genç</i>	<i>Mehmet Akif Öztürk, Özlem Durmuş Arın, Seha Akduman</i> Group A	SRPC SGS Group D <i>Deniz Kıraç</i>	<i>Mehmet Akif Öztürk, Özlem Durmuş Arın, Tijen Alkan Bozkaya</i> Group B	SRPC SGS Group A <i>Deniz Kıraç</i>		
16.00- 16.50	Lecture Vasoactive Peptides <i>Emine Nur Özdamar</i>	Lecture Pharmacogenetics & Pharmacogenomics <i>Ece Genç</i>					II	Elective Courses Week XII
17.00-17.50	Lecture Lecture Histamine and Antihistamines <i>Emine Nur Özdamar</i>	Lecture Prenatal Diagnosis, Teratology and Congenital Anomalies <i>Alev Cumbul</i>					II	Elective Courses Week XII

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

**COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS
V.WEEK / 2 – 6 May 2022**

	Monday 2-May-2022	Tuesday 3-May-2021	Wednesday 4-May-2022	Thursday 5-May-2022	Friday 6-May-2022	
09.00- 09.50	NATIONAL HOLIDAY	NATIONAL HOLIDAY	NATIONAL HOLIDAY	Independent Learning	Independent Learning	
10.00- 10.50				Independent Learning	Independent Learning	
11.00- 11.50				LUNCH BREAK		
12.00- 12.50						
13.00- 13.50						
14.00- 14.50				Independent Learning	Elective Courses Week XIII	IL
15.00- 15.50				Independent Learning		
16.00- 16.50				Independent Learning	IL	Elective Courses Week XIII
17.00-17.50				Independent Learning		

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

COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS
VI. WEEK / 9 - 13 May 2022

	Monday 9-May-2022	Tuesday 10-May-2022	Wednesday 11-May-2022	Thursday 12-May-2022	Friday 13-May-2022			
09.00- 09.50	Lecture Basics of MRI <i>Bilge Güvenç Tuna</i>	Laboratory/ Anatomy Urinary System <i>Mohammed Elgazzar</i> Group 1	Lecture Histogenesis and Nomenclature <i>Aydın Sav</i>	Lecture Perineum and Ischiorectal Fossa <i>Mohammed Elgazzar</i>	Laboratory/ Anatomy Female Genital Organs <i>Mohammed Elgazzar</i> Group 4			
10.00- 10.50	Lecture Basics of MRI <i>Bilge Güvenç Tuna</i>	Group 2	Lecture Histogenesis and Nomenclature <i>Aydın Sav</i>	Lecture Review of the Urinary System <i>Mohammed Elgazzar</i>	Group 3			
11.00- 11.50	Lecture Fetal and Neonatal Physiology <i>Bayram Yılmaz</i>	Group 3	Lecture Tissue Damage by Eating Disorders and Diabetes Mellitus <i>Aydın Sav</i>	Lecture Development of the Male Genital System and Anomalies <i>Alev Cumbul</i>	Group 2			
12.00- 12.50	Lecture Endocrine Distruptors <i>Bayram Yılmaz</i>	Group 4	Independent Learning	Lecture Development of the Female Genital System and Anomalies <i>Alev Cumbul</i>	Group 1			
13.00- 13.50	Lunch Break							
14.00- 14.50	Lecture Hormones Regulating Calcium Metabolism <i>Inci Özden</i>	Laboratory/ Anatomy Male Genital Organs <i>Mohammed Elgazzar</i> Group 1	ICP LECTURE Intraarterial Blood Sampling <i>Mehmet Akif Öztürk/Özlem Durmuş</i> <i>Arın/Seha Akduman</i> Group C		ICP LECTURE Bladder Catheterization <i>Arzu Akalın/Gökhan</i> <i>Gencer/Gözde Şen</i> Group A	Elective Courses Week XIV	IL	
15.00- 15.50	Lecture Hormones Regulating Calcium Metabolism <i>Inci Özden</i>	Group 2	<i>Mehmet Akif Öztürk/Özlem</i> <i>Durmuş Arın/Seha Akduman</i> Group C	SRPC SGS Group E <i>Deniz Kıraç</i>	<i>Gökhan Gencer/Arzu Akalın/</i> <i>Gözde Şen</i> Group A			SRPC SGS Group C <i>Deniz Kıraç</i>
16.00- 16.50	Lecture Hormones and Immunity <i>Gülderen Yanıkkaya</i> <i>Demirel</i>	Group 3				IL	Elective Courses Week XIV	
17.00-17.50	Independent Learning	Group 4						

**COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS
VII. WEEK / 16 – 20 May 2022**

	Monday 16-May-2022	Tuesday 17-May-2022	Wednesday 18-May-2022	Thursday 19-May-2022	Friday 20-May-2022			
09.00- 09.50	Laboratory / Physiology Dissection & Examination of Endocrine System <i>BY & MK & BGB</i> Group A1	Laboratory / Microbiology Virology <i>Güner Söyletir</i> Group A2	Laboratory / Physiology Dissection & Examination of Endocrine System <i>BY & MK & BGB</i> Group D2	Laboratory / Microbiology Virology <i>Güner Söyletir</i> Group D1	NATIONAL HOLIDAY			
10.00- 10.50	Group B1	Group B2	Laboratory Histology of Urinary & Endocrine Systems <i>Alev Cumbul & Aylin Yaba Uçar</i> Group A	Independent Learning				
11.00- 11.50	Group C1	Group C2	Group B			Independent Learning		
12.00- 12.50	Group D1	Group D2	Group C				Independent Learning	
13.00- 13.50	Lunch Break							
14.00- 14.50	Group A2	Group A1	Group D		Laboratory/Pathology Inflammation and Neoplasia <i>Aydın Sav</i>			NATIONAL HOLIDAY
15.00- 15.50	Group B2	Group B1	Group E	Laboratory/ Pharmacology Efficacy and Potency Concepts <i>Ece Genç / Emine Ozdamar/Cenk Andaç</i>	Independent Learning			
16.00- 16.50	Group C2	Group C1	Independent Learning	Independent Learning				
17.00-17.50	Independent Learning	Independent Learning	Independent Learning			Independent Learning		
							Independent Learning	
								Independent Learning

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COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS
VIII. WEEK / 23 – 27 May 2022

	Monday 23-May-2022	Tuesday 24-May-2022	Wednesday 25-May-2022	Thursday 26-May-2022	Friday 27-May-2022
09.00- 09.50	Independent Learning	Laboratory/ Anatomy Nerves and Vasculature of the Pelvis <i>Mohammed Elgazzar</i> Group 3	Laboratory/ Anatomy Perineum and Ischiorectal Fossa <i>Mohammed Elgazzar</i> Group 4	Laboratory/ Biochemistry Urine Analysis <i>Jale Çoban & Müge Kopuz Alvarez</i> <i>Noval</i>	ICP LECTURE Bladder Catheterization <i>Arzu Akalın/Mustafa Yüksel/Pınar Tura</i> Group B
10.00- 10.50	Laboratory Histology of Genital Systems <i>Alev Cumbul & Aylin Yaba Uçar</i> Group A	Group 2	Group 3	Laboratory/ Biostatistics Computer Applications of Tests of Significance <i>Çiğdem Keleş</i>	SRPC SGS Group D <i>Deniz Kıraç</i>
11.00- 11.50	Group B	Group 1	Group 1		
12.00- 12.50	Group C	Group 4	Group 2		
13.00- 13.50	Lunch Break				
14.00- 14.50	Group D	ICP LECTURE Bladder Catheterization <i>Arzu Akalın/Cem Şimşek/Süleyman Orman</i> Group C	ICP LECTURE Bladder Catheterization <i>Arzu Akalın/Mustafa Yüksel/Pınar Tura</i> Group D	ICP LECTURE Bladder Catheterization <i>Gökhan Gencer/Arzu Akalın/Gözde Şen</i> Group E	Independent Learning
15.00- 15.50	Group E	<i>Arzu Akalın/Cem Şimşek/Süleyman Orman</i> Group C	SRPC SGS Group E <i>Deniz Kıraç</i>	<i>Arzu Akalın/Mustafa Yüksel/Pınar Tura</i> Group D	SRPC SGS Group B <i>Deniz Kıraç</i>
16.00- 16.50	Independent Learning				
17.00-17.50	Independent Learning				Independent Learning

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**COMMITTEE V – UROGENITAL and ENDOCRINE SYSTEMS
IX.WEEK / 30 May – 3 June 2022**

	Monday 30-May-2022	Tuesday 31-May-2022	Wednesday 1-June-2022	Thursday 2-June-2022	Friday 3-June-2022
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50			Assessment Session (Anatomy, Physiology, Biochemistry, Microbiology, Pathology, Pharmacology, Biostatistics and Histology&Embryology Practical Exams)		Assessment Session Committee V (MCQ)
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break				Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee V Program <i>Secretary of the Committee</i>
14.00- 14.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
15.00- 15.50					
16.00- 16.50					
17:00-17:50					Independent Learning

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 student's 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
- 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.

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	STUDENT			COUNSELOR
	STUDENT NO	NAME	SURNAME	NAME
1	20200800146	FARSIMA	ABDIPOUR VOSTA	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
2	20200800136	RIHAM	ABOU HEIT	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
3	20200800062	NEVZAT ANIL	AKCAN	PROF. DR. TURGAY İSBİR
4	20200800123	BERKİN	AKDAĞLI	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
5	20200800092	EFE	AKDENİZ	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
6	20190800064	MERVE BENGÜSU	AKIN	DR. ÖĞR. ÜYESİ ÇIĞDEM KELEŞ
7	20200800040	AYKUT	AKSAN	PROF. DR. ECE GENÇ
8	20200800121	TUANA	AKSU	PROF. TURGAY İSBİR
9	20200800130	BAHAR	ALI NEJAD	DOÇ. DR.ELİF VATANOĞLU LUTZ
10	20190800033	FARUK MAHMUT	ALKAN	DR. ÖĞR. ÜYESİ ÇIĞDEM KELEŞ
11	20190800029	HALİLCAN	ARPACI	DR. ÖĞR. ÜYESİ ÇIĞDEM KELEŞ
12	20190800028	EMRE	ATALAY	DOÇ. DR. BURCU GEMİCİ BAŞOL
13	20200800069	İLDEM ÖYKÜ	ATAŞ	PROF. DR. EROL SEZER
14	20200800048	İREM NUR	ATİLLA	PROF. DR. EROL SEZER
15	20200800051	EBRAR BEYZA	AYDIN	PROF. DR. EROL SEZER
16	20200800091	SEVİNÇ BURCU	AYDIN	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
17	20180800127	LIAN	AZZAWI	DOÇ. DR. AYLİN YABA UÇAR
18	20190800030	ATAKAN	BABAGIRAY	DOÇ. DR. BURCU GEMİCİ BAŞOL
19	20200800129	HEDIEH SADAT	BAHREINI	DOÇ. DR.ELİF VATANOĞLU LUTZ
20	20200800047	GÖKSU	BALCI	PROF. DR. İNCİ ÖZDEN
21	20190800041	SELİN	BAŞER	DOÇ. DR. BURCU GEMİCİ BAŞOL
22	20200800097	İREM NUR	BELEVİ	PROF. DR. İNCİ ÖZDEN
23	20200800074	BARTU KAYA	BEYZADEOĞLU	PROF. DR. İNCİ ÖZDEN
24	20200800057	MEHMET AYDIN	BOYRAZ	PROF. DR. İNCİ ÖZDEN
25	20210800006	ECEM SENA	CINAR	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ
26	20190800042	GÖRKEM	ÇALIŞKAN	DR. ÖĞR. ÜYESİ ARZU AKALIN
27	20200800086	ELİF	ÇAPANOĞLU	DOÇ. DR.ELİF VATANOĞLU LUTZ
28	20210800006	SUDE	ÇAPRAZ	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
29	20200800065	BEHİRE FEM	ÇELİK	PROF. DR. GÜLDEREN YANIKKAYA DEMİREL
30	20200800094	MELİSA	ÇEVİK	PROF. DR. GÜLDEREN YANIKKAYA DEMİREL
31	20200800116	YİĞİT	ÇILAN	PROF. DR. GÜLDEREN YANIKKAYA DEMİREL

32	20200800078	GÜLSÜM BUSE	DEMİR	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
33	20200800073	ERGE	DOĞAN	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
34	20200800059	PINAR	DÜNDAR	DOÇ. DR.ELİF VATANOĞLU LUTZ
35	20210800025	EFE	EKREN	DOÇ. DR. AYLİN YABA UÇAR
36	20200800082	ASLI NAZLI	EKŞİ	DOÇ. DR.ELİF VATANOĞLU LUTZ
37	20200800120	SEYİT SAIT YUSUF	ELÇİ	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
38	20190800098	ZEHRA	ERASLAN	DR. ÖĞR. ÜYESİ ARZU AKALIN
39	20210800035	ASLI	ERKAN	DOÇ. DR. AYLİN YABA UÇAR
40	20200800103	CANSU	ERLİK	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
41	20190800079	GÜLBELAZ BETÜL	ERSOY	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
42	20200800113	ALTAR	EYUBOĞLU	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
43	20200800112	SELEN	EYYUPOĞLU	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
44	20200800028	PETEK	FETTAHLIOĞLU	PROF. DR. SONER DOĞAN
45	20200800115	YUNUSEMRE	FISTIĞCI	PROF. DR. SONER DOĞAN
46	20190800053	MEHMET OĞULCAN	GİRAY	DR.ÖĞR.ÜYESİ ALEV CUMBUL
47	20200800060	KIVANÇ	GÖKTÜRK	PROF. DR. SONER DOĞAN
48	20200800085	BERKE	GÖKYAYLA	PROF. DR. SONER DOĞAN
49	20210800036	ESRA	GÜNEY	DOÇ. DR. AYLİN YABA UÇAR
50	20200800104	DOĞA	GÜNGÖR	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
51	20200800045	ÖZGE	GÜRBÜZ	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
52	20200800080	ZEYNEP	HACIKAMİLOĞLU	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
53	20190800056	ZEYNEP SELENE	İSKİT	DR.ÖĞR.ÜYESİ ALEV CUMBUL
54	20200800049	AYÇA	KAHRAMAN	PROF. DR. ÖZLEM TANRIÖVER
55	20190800065	SUDE	KARAKUŞ	DOÇ. DR. DENİZ KIRAÇ
56	20200800041	İDİL	KASAP	PROF. DR. ÖZLEM TANRIÖVER
57	20200800055	ZEYNEP EKİN	KAYA	DR. ÖĞR. ÜYESİ ÇİĞDEM KELEŞ
58	20200800071	ELİF	KESKİNEL	PROF. DR. MEHTAP KAÇAR
59	20200800076	İLAYDA NUR	KILIÇ	PROF. DR. MEHTAP KAÇAR
60	20200800075	ZEYNEP	KIZMAZ	PROF. DR. MEHTAP KAÇAR
61	20200800117	EDA	KOÇ	DOÇ. DR.ELİF VATANOĞLU LUTZ
62	20190800032	ERDEM	KORAL	DOÇ.DR.DENİZ KIRAÇ
63	20200800079	DOĞUKAN	KURT	PROF. DR. MEHTAP KAÇAR
64	20200800081	BENSU	LENGER	PROF. DR. MEHTAP KAÇAR
65	20200800139	MUHAMMAD RAYYAN	MASOOD	DR. ÖĞR. ÜYESİ MÜGE KOPUZ ALVAREZ NOVAL
66	20200800001	SHOROUK	MOSBAH	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ

67	20200800122	KAMALADDIN	NABIZADE	DR. ÖĞR. ÜYESİ MÜGE KOPUZ ALVAREZ NOVAL
68	20200800043	ALEYNA	NERKİZ	DR. ÖĞR. ÜYESİ MÜGE KOPUZ ALVAREZ NOVAL
69	20200800119	KEREM	NOYAN	DOÇ. DR. DENİZ KIRAÇ
70	20190800047	ANIL	NUMANOĞLU	DR.ÖĞR.ÜYESİ HALE ARIK TAŞYIKAN
71	20190800026	ROJHAT ÇIRAK	OLCAY	DR.ÖĞR.ÜYESİ HALE ARIK TAŞYIKAN
72	20200800111	IRMAK	ÖĞRETMEN	DOÇ. DR. DENİZ KIRAÇ
73	20180800107	ÖZGE	ÖLÇÜCÜER	DOÇ. DR. BURCU GEMİCİ BAŞOL
74	20200800095	ABİDİN EFE	ÖZGÜN	DR. ÖĞR. ÜYESİ ALEV CUMBUL
75	20190800081	ÖNAL EFEHAN	ÖZKAN	DR.ÖĞR.ÜYESİ HALE ARIK TAŞYIKAN
76	20190800074	YAĞMUR	ÖZKAN	DR. ÖĞR. ÜYESİ ALEV CUMBUL
77	20200800066	YUSUF EFE	ÖZSOY	DR. ÖĞR. ÜYESİ SERDAR ÖZDEMİR
78	20200800015	ECE	ÖZTARHAN	DR. ÖĞR. ÜYESİ SERDAR ÖZDEMİR
79	20190800095	MUHAMMET	SAATÇI	PROF. DR. MEHTAP KAÇAR
80	20200800054	ALP	SARANDÖL	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ
81	20200800044	MAYA	SARIOĞLU	DR. ÖĞR. ÜYESİ SERDAR ÖZDEMİR
82	20200800072	DORUK	SEÇKİNER	DR. ÖĞR. ÜYESİ SERDAR ÖZDEMİR
83	20190800089	BARIŞ	SÖNMEZ	PROF. DR. MEHTAP KAÇAR
84	20200800096	SİMGE SU	SÖZÜTEK	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
85	20210800034	VENÜS	ŞAHİN	DOÇ. DR. AYLİN YABA UÇAR
86	20200800102	ZEYNEP SUDE	ŞAHİN	DR. ÖĞR. ÜYESİ BİLGE GÜVENÇ TUNA
87	20200800020	DEFNE SELMA	ŞENGÜN	DR. ÖĞR. ÜYESİ ARZU AKALIN
88	20200800098	DOĞA	TAŞ	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ
89	20200800070	SERRA	TAŞÇI	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ
90	20200800110	DENİZ CAN	TEMEL	DOÇ. DR.ELİF VATANOĞLU LUTZ
91	20200800052	BORA	TEZER	DR. ÖĞR. ÜYESİ ARZU AKALIN
92	20200800109	ILGIN	TOKBAY	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
93	20200800145	KELİMU	TUMAREZİ	DOÇ. DR. BURCU GEMİCİ BAŞOL
94	20200800021	ONGUN NOYAN	TUNCER	DOÇ. DR. BURCU GEMİCİ BAŞOL
95	20190800102	TUĞÇE	UĞUR	PROF. DR. MEHTAP KAÇAR
96	20200800088	GÜL	URAL	DR. ÖĞR. ÜYESİ MÜGE KOPUZ ALVAREZ NOVAL
97	20200800099	CEREN ELİF	ÜNALMIŞ	DR. ÖĞR. ÜYESİ MÜGE KOPUZ ALVAREZ NOVAL
98	20200800077	MURAT	YALÇIN	DOÇ. DR.ELİF VATANOĞLU LUTZ
99	20200800063	GÜLCE	YALÇIN	DR. ÖĞR. ÜYESİ ÇİĞDEM KELEŞ
100	20200800093	ZEYNEP DOĞA	YAPICI	DR. ÖĞR. ÜYESİ MÜGE KOPUZ ALVAREZ NOVAL
101	20200800090	NEHİR	YARAMAN	DR. ÖĞR. ÜYESİ HALE ARIK TAŞYIKAN

102	20200800133	YASIR BAQER MAHDI	YASEEN	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
103	20200800036	GANİME ELİF	YAVUZ	DR. ÖĞR. ÜYESİ HALE ARIK TAŞYIKAN
104	20200800067	ECE	YAVUZ	DOÇ. DR. GÜLSÜM SEDA GÜLEÇ YILMAZ
105	20200800084	BENSU	YETİK	PROF.DR.ÖZLEM TANRIÖVER
106	20190800091	MÜCAHİT	YILDIRA	DOÇ. DR. BURCU GEMİCİ BAŞOL
107	20200800118	ENES EMRE	YILDIRIM	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ
108	20200800058	MELİSA	YILDIRIM	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ
109	20200800083	IRMAK	YILDIZ	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ
110	20200800053	CEYLİN	YILMAZ	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ
111	20190800059	HİLAL	YILMAZ	PROF.DR.ÖZLEM TANRIÖVER
112	20190800101	ÖMER ŞAMİL	YILMAZ	PROF. DR.ÖZLEM TANRIÖVER
113	20200800025	SELİN DZAHİT	YÜKSEL	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ
114	20200800100	MİRAY	YÜKSEL	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ
115	20200800108	EGEMEN	YÜKSEL	DR. ÖĞR.ÜYESİ SITKI TIPLAMAZ

CONTACT INFORMATION

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