YEDİTEPE UNIVERSITY FACULTY OF MEDICINE PHASE II ACADEMIC PROGRAM BOOK 2020 - 2021

YEDİTEPE UNIVERSITY

FACULTY OF MEDICINE

PHASE II

CONTENTS	Page
AIM OF MEDICAL EDUCATION PROGRAM 4	
PROGRAM OUTCOMES OF MEDICAL EDUCATION 5	
COORDINATION COMMITTEE 9	
DESCRIPTION and CONTENT 10	
AIM and LEARNING OBJECTIVES of PHASE II 11	
NSTRUCTIONAL DESIGN of PRECLINICAL YEARS 12	
AIM and LEARNING OBJECTIVES of BASIC MEDICAL SCIENCES II (BMS-II) (MED 203) 13	
NTRODUCTION to CLINICAL PRACTICE (ICP MED 102, 202, 303) 14	
SCIENTIFIC RESEARCH and PROJECT COURSE - II 21	
SPECIFIC SESSIONS / PANELS 30	
A SHORT GUIDE for STUDENTS to PROBLEM-BASED LEARNING (PBL) 34	
NDEPENDENT LEARNING 38	
ASSESSMENT PROCEDURE 40	
EXAM RULES 43	
WEEKLY COURSE SCHEDULE and LOCATIONS 46	
ACADEMIC CALENDAR 2020 – 2021 50	
RECOMMENDED TEXTBOOKS 48	
COMMITTEE I - CARDIOVASCULAR SYSTEM Hata! Yer işareti tanımlanmamış.	
COMMITTEE II - RESPIRATORY SYSTEM 65	
COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM Hata! Yer işareti tanımlanır	ıamış.
COMMITTEE IV - NERVOUS SYSTEM	
COMMITTEE V - UROGENITAL and ENDOCRINE SYSTEMS	

STUDENT COUNSELING

CONTACT Hata! Yer işareti tanımlanmamış.

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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

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

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE

PROGRAM OUTCOMES OF MEDICAL EDUCATION *, **

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University Faculty of Medicine.

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.

COORDINATION COMMITTEE (TEACHING YEAR 2020 – 2021)

Mehtap KAÇAR, MD, Assos. Prof. & Burcu GEMİCİ BAŞOL, PhD Assoc. Prof. (Coordinator)

Deniz KIRAÇ, PhD Assoc. Prof. (Co-Coordinator)

Alev CUMBUL, PhD Assist. Prof. (Co-Coordinator)

Müge KOPUZ ALVAREZ NOVAL, PhD Assist. Prof. (Co-Coordinator)

Mohammed ELGAZZAR, MD Lecturer (Co-Coordinator)

Sitki Tiplamaz, MD, Asist. Prof. (Co-Coordinator)

ICP-II COORDINATION COMMITTEE

Özlem TANRIÖVER, MD MPH Prof.

A. Arzu AKALIN, MD Assist. Prof. (Co-Coordinator)

ELECTIVE COURSES COORDINATION COMMITTEE

A. Arzu AKALIN, MD Assist. Prof. (Coordinator)

Seda GÜLEÇ, PhD Assoc. Prof. (Co-Coordinator)

PBL COORDINATION COMMITTEE

Serdar ÖZDEMİR, MD PhD Assist. Prof. (Coordinator)

İbrahim Çağatay ACUNER, MD Assoc. Prof. (Co-Coordinator)

Deniz KIRAÇ, PhD Assoc. Prof. (Co-Coordinator)

DESCRIPTION and CONTENT

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, Elective Courses

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

AIM and LEARNING OBJECTIVES of PHASE II

AIMS

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

LEARNING OBJECTIVES

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

KNOWLEDGE

- 1.0. explain basic medical knowledge for cardiovascular system, respiratory system, circulation, hemodynamics, urogenital system, gastrointestinal system, nervous system, endocrine system, immune system and immunologic response, biostatistics subjects and elective courses.
- 2.0. explain the operational principles, interactions and relation of the systems in the body.
- 3.0. of clinical conditions;
- 3.1. explain mechanisms of damages formed at molecular, cell, tissue, organ, system and 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 reasearch.

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 equipments.
- 3.0. prepare a presentation of a scientific research

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)

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

AIM

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

LEARNING OBJECTIVES

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

KNOWLEDGE

- 1.0. explain basic medical knowledge for cardiovascular system, respiratory system, circulation, hemodynamics, urogenital system, gastrointestinal system, nervous system, endocrine system, immune system and immunologic response, biostatistics subjects.
- 2.0. explain the operational principles, interactions and relation of the systems in the body.
- 3.0. of clinical conditions;
- 3.1. explain mechanisms of damages formed at molecular, cell, tissue, organ, system and 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 reasearch.
- 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

INTRODUCTION to CLINICAL PRACTICE (ICP MED 102, 202, 303)

Aim

This course aims to equip the students with basic medical skills 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. The students improve the gained skills by observing real encounters in the clinical settings during 2nd and 3rd year.

Description

ICP is a three years 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 is 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 exam 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 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.

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

AIM and LEARNING OBJECTIVES of ICP-II

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
- 3. **value** the importance of not exceeding the limits of his/her own competency level.

EARLY CLINICAL EXPOSURE

Description:

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

Aim:

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

Learning Environment:

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

Duration:

Education Program is spread over a total of 8 weeks.

Objectives of the Training:

Students who complete the training program will be able to;

Knowledge:

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

Skills:

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

Attitude:

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

Content:

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

Instructional Methods:

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

Educational Materials:

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

Assessment

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

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

Organization of Student Groups:

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

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

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

Evaluation of the Training Program:

Student feedback forms will be given to the coordinator, after collecting the forms, the coordinator will send them to the "Program Evaluation Commission". In addition, the coordinator will write a report on the functioning of the ECE program to the "Early Clinical Exposure Commission".

Student Work Load:

The duration of the educational program for each student; in the clinical settings face to face 6 hours, 6 hours for independent learning, 6 hours in primary care setting: a total of 18 hours.

Requirements for the Educational Program:

Student service bus should be allocated to ensure the transfer of students to the clinical settings.

Responsible Faculty for the ECE:

Coordinator: Yaşar KÜÇÜKARDALI, MD, Prof.

ICP II Coordinator and Co-coordinator:

Özlem TANRIÖVER, MD, MPH Prof.

A. Arzu AKALIN, MD, Assist. Prof.

SCIENTIFIC RESEARCH and PROJECT COURSE - II

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; 50% will be graded from presentations and 50% will be graded with an exam which will be held at the end of the second semester.

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

Scientific Research and Project Course-II course has 2% contribution to Term Score (TS).

The students lists 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. Students who could not attend to small group studies and make presentation, will not allow to attend MCQ exam of this course

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. For further information on elective course contents, please see: http://med.yeditepe.edu.tr/ders-programlari

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 614	Personal Trademark Development		
Goals	The aim of this course is to equip the students with skills in crea appropriate behavior in social platforms.	ating personal image fo	r successful business life and with
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.		
		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
Assessment	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	3	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		100
Code	Subject		

MED 615	Innovation Management
Goals	The aim of this course is to convey to the students knowledge on innovative approaches for visionary life, describe the 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.		
		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
Assessment	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	5	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total	8	100

Code	Subject		
MED 616	Medical Management and New Services Design Skills		
Goals	The aim of this course is to develop leadership skills to manage a team and organ lack of crew. Moreover, empathy skills will be developed to create better relacustomers.		
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.		
		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
Assessment	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
Assessment	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	4	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40

Total	100

Code	Subject		
MED 617	Personal Brand Management Skills		
Goals	This course aimes to teach how to deal with stress under different conditions. Besides, effective production skills under stress and time constraints will be subject of the course. This course also will be very helpful for career development. The tools will be offered to students for better communication, presentation and managerial skills.		
Content	In the content of this course; stress and time management for effective production, personal goal settings, motivation and effective communication will be used. Breathing techniques, diction exercises and body language will help to improve student's personal development. Moreover, managerial skills development subjects will be held. Presentations and homework will be used as effective learning tools in this course.		
Course Learning Outcomes	At the end of this course, the student should be able to apply stress and time management skills in their personal development and career.		
		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
Assessment	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	4	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	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.		
		NUMBER	PERCENTAGE
Assessment	Group work performance		50
	Presentations		50

	Total	100

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

Code	Subject	
MED 624	Narrative Medicine	
Goals	This course aims to build close reading skills and to develop approaches to reflective writing in the clinical setting. To equip with a capacity to read deeply, extensively, and rigorously the clinical setting and conditions of the cases so as to recognize the writer/artist and (here, the dividend) the reader/ the viewer opinions comparatively. The care of the sick unfolds in stories. The effective practice of healthcare requires the ability to recognize, absorb, interpret.	
Content	The care of the sick unfolds in stories. The effective practice of healthcare requires the ability to recognize, absorb, interpret and act on the stories and plights of others. Medicine practiced with narrative competence is a model for humane and effective medical practice. It addresses the need for patients and caregivers to voice their experience, to be heard and to be valued, and it acknowledges the power of narrative to change the way care is given and received. Narrative Medicin empowers the overarching goals of medicine, public health, and social justice, as well as the intimate, interpersonal experiences of the clinical encounter. There is a seminar part of the course, and the workshop will be an interactive session. The instructor helps students to discuss art pieces with some questions. At the end of the session, a project is given to write a reflective piece in a limited time. The writings could be shared depending on the writers' will and feedbacks are provided a class by using close reading techniques. Artworks (literary works such as poetry, story, novels, visual artworks such a paintings, photographs, movies, comic books, or music) will be shared by the instructor. At the end of this course, the student should be able to improve their close reading skills for medical narratives in the clinical setting. recognize their emotions and learn emotional honesty by learning and experiencing a reflective writing approach.	
Course Learning Outcomes		

- learn to increase the communication skills between the patient-physician and learn empathy in the clinical
- gain new skills for a humanistic and effective healthcare service understand the importance of writing for a clinician for understanding the self and expressing the self.

		NUMBER	PERCENTAGE
Assessment	Midterm		
	Assignments/weekly feedbacks	1	50
	Final Examination	1	50
		Total	100
	Contribution of Final Examination to Overall Grade	1	50
	Contribution of In-Term Studies to Overall Grade	1	50
		Total	100

Code	Subject		
MED 627	Presentation of Medicine on Media		
Goals		echnical features and to develop an und	•
Content	Sensual and perceptual theories of visual communic media as a PR tool.	cation. Analysis and reading the meaning	g of the images presented in the
Course Learning Outcomes	 Semiology and Cognitive Approach. recognize the differences between advection describe the historical and cultural stell interpret images in the media (such 	be able to sual literacy as intellectual property f the light and theory of vision elp of sensual and perceptual theories such as Gestalt, Construach. en advertising, journalism and public relations. ral stereotypes used in the media (such as typography, graphic design, infographics, photographistorical, cultural, ethical and critical aspects. NUMBER PERCENTAGE	ons. fographics, photography, TV,
		NUMBER	PERCENTAGE
MED 627 Goals Content Course Learning	Midterm Exam	1	70
	Homework	1	30
		Total	100
	Contribution of Final Examination to Overall Grade		60
	Contribution of In-Term Studies to Overall Grade		40
		Total	100

Code	Subject
MED 628	Healthy Living: The Milestones of the Life for Performance Management

Goals

This course aims to support fitness practices & dietary habits of healthy life style for medical students. To introduce techniques for reducing stress with healthy living habits. To highlight the importance of superior physical and mental health status for a better job performance.

Content

In the content of this course; understanding 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

- 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

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

Code	Subject	Subject					
MED 629	Music and Medicine						
Goals	This course aims to convey the pa	st and current uses and utilities of musi	ic in medicine.				
Content	The connection of music and medicine throughout the historical development of antiquity and Middle Ages up until today. The place of music in medical practice after the transformations in the Age of Enlightenment and beyond.						
Course Learning Outcomes	 At the end of this course, the student should be able to explain the uses of medicine in the past and present. describe the uses of music in clinical conditions, and before and after surgical treatment. explain the effects of music before and after surgery describe the types of music used in music therapy 						
		NUMBER	PERCENTAGE				
Assessment	Midterm	1	25				
	Assignments (Homework)	1	25				
	Final Exam		50				
		Total	100				
	Contribution of Final Examination to Overall Grade		50				

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

Code	Subject						
MED 630	Health Law	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	of malpractice	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	anadistin tthetake	distinguish branches and consequences of legal responsibility					
	NUMBER PERCENTAGE						
Assessment	Assignment / presentation	1	50				
	Final EXAM	1	50				
		Total	100				
	Contribution of Final Examination to Overall Grade		50				
	Contribution of In-Term Studies to Overall Grade		50				
		Total	100				

Code	Subject
MED 631	Creative Drama II
Goals	This course aims the development of body awareness, improvement of communication skills of students by creating an atmosphere where the students can explore the potential of their emotional intelligence.
Content	In this class, the students will be searching for their abilities for self-representation and being visible in society and going into an active learning process by experiencing image theatre, invisible theatre, newspaper theatre and forum theatre techniques

Course Learning Outcomes

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

- build supportive relationships in group by improving personal cooperating skills.
- recognize personal awareness,
- explain and review the schemes of personal attitude, thought and feeling by 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.

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

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

Committee 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 begining 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).

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

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

The principal idea behind PBL is that the starting point for learning should be a problem, a query, or a puzzle that the learner wishes to solve.

PBL is a learning method where students perceive their knowledge gaps, decide on learning issues and achieve these, while working in small groups on a case to solve a patient's problems.

So, PBL starts by a clinical case of a patient. While working on the patient's problems you will identify your learning needs and study these. During this whole process you will work with a group of 8-12 students and a tutor.

How it works?

You will be presented a patient case (scenario) that has some problems and will be asked to proceed according to the information and instructions that you will receive. You will not be informed about the topic of the case in advance but will face the problem when given to you in your first session- *just like a doctor does not know what patients he/she will see when starting the day*.

Scenarios will be given to you one page at a time. When you finish discussing a page you will be given the following page with additional information about the patient.

Each PBL case will be discussed over 3 sessions, 2 hours each. You will work in a group of 8-12 students with a tutor. One student elected by the group will work as the "scribe" (person who will write the discussed topics on the board). The scribe may change at every session, by group decision.

Each group will be given the same scenario but will work independently from each other.

The tutor working with you will NOT TEACH you but will only guide to on this exciting trip. He/she will ask you questions to guide you to the problems to be solved.

Your aim will be to find out the reasons, and in some cases, the solutions of the problems presented.

It is clear (and we know) that <u>you do not have enough knowledge to understand and solve all the problems presented to you</u>.

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

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

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

The patient's problems will be listed under "Problems" column.

The possible causes/reasons/mechanisms of the patient's problems will be listed under "**Hypotheses**". You can suggest and write anything that comes to your mind- you will then try to find any facts or information that can support these hypotheses. Do not be shy to suggest anything. You will not be judged for those things that you suggest.

As you will not be provided with all information about the patient you will need more information (such as, the patient's fever, physical examination findings, laboratory data, etc.). You will thus ask the scribe to write down these on the board under "Required Information" heading. This means information that you want to learn about this particular patient.

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

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

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

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

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

Other benefits of PBL that you gain are to:

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

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

PBL STUDENT ASSESSMENT FORM*

Stu	dent Name							
Pha	se/Committee							
PBI	. Scenario Name							
Tut	or Name							
	ERACTION WITH GROUP / PARTICIPATION	Not observed	Poor	Fair	Average	Good	Excellent	Total Point of
то	GROUP	0	1	2	3	4	5	the Part
1.	Starts discussion							
2.	Contributes with valid questions and ideas							
3.	Balances listening and speaking roles							
4.	Communicates effectively in group work							
GA	INING KNOWLEDGE	Not observed	Poor	Fair	Average	Good	Excellent	Total Point of the Part
		0	1	2	3	4	5	tile 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							
СО	MMUNICATION/SHARING KNOWLEDGE	Not observed	Poor	Fair	Average	Good	Excellent	Total Point of the Part
		0	1	2	3	4	5	the runt
9.	Selects data valid for discussion and presentation							
10.	Expresses ideas and knowledge clearly and in an understandable way							
	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	Poor	Fair	Average	Good	Excellent	Total Point of the Part
		0	1	2	3	4	5	
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	Poor	Fair	Average	Good	Excellent	Total Point of the Part
			1	2	3	4	5	
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							
				To	otal Score	of the St	udent →	

Student's attendance status for PBL	Session 1	Session 2	Session 3
sessions	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).

INDEPENDENT LEARNING

Description:

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

Aim:

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

Objectives:

With this instructional strategy, students will develop;

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

Rules:

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

What a student should do for learning independently?

- 1. **Analyzing:** First you will need to analyze carefully, what your problems and weaknesses are. For example, if you are studying anatomy, is your weak area broadly upper limb, lower limb, or what?
- 2. **Addressing:** Once you've decided your specific problems, you can list them. Which one needs to be addressed urgently? Work out your priorities. Whatever your subject area is, don't be afraid to return to the basics if necessary. It may give you more confidence in the long run to ensure you have a proper understanding of basic concepts and techniques.
- 3. Accessing: If you need reliable information, or if you need to read about a subject and put it into context, a textbook may be the best place to start. However, the Internet may be helpful if you need very up-to-date information, specific facts, or an image or video etc. If you need an academic research article, reports or case studies for your topic, then a database (Pubmed etc.) would be the best option.
- 4. **Timing:** In the weekly syllabus you will see, a specific time called "independent learning hour" for your independent work. In addition to these hours, the students should also have their own time schedule for their study time at home.
- 5. **Planning:**_Your next step will be to work out a realistic study-plan for your work. What goals could you literally set for yourself? Don't make them too ambitious but set minor goals or targets that you know you

- will be able to achieve without having to spend a very long time working on them. How many hours will you need to achieve them? How will you know when you've achieved them?
- 6. **Recording:** When you work independently, it's a good idea to keep a written record of the work you've done. This can help with further planning and also give a sense of achievement as well as provide something to include in a progress file. As time goes by you may surprise yourself with what you've been able to achieve. This could motivate you to keep going, as could increase your confidence, and even improve your results
- 7. **Reflecting:**_Reflecting on what you've done can help you decide whether the activity was really effective, whether an alternative approach might be better on another occasion, whether you spent the right amount of time and whether you have achieved the target you'd set yourself.
- 8. **Improving:** Once you've achieved the target, the process of planning can start again. Your needs and priorities may have changed, so think about them and then set yourself to another target.

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 I covers exams and scores and their abbrevations that shown below.

1.0. Exams:

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

2.0. Scores*:

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

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

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

	Exams Information (MED 104, MED 102)			
CE	For the proportional correspondence of individual learning objectives, please see the committee's			
	assessment matrix table/page.			
MTEICP	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.			
MUEIBS	E _{IBS} MUE will be held only twice in a term.			
	MUE consists of FSAQs.			
	The number of FSAQs is half of the relevant exam.			
	MUE content will be developed by the coordination committees.			

Scores Information				
(MED 104,MED 102,MED 103	, HUM 103, TKL 201, TKL 202, HTR 301, HTR 302, 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, who are exempted from FE	= 98% of CMS + 2% of SRPCS			
TS for students, who are not exempted from FE	= 98% of (60% of CMS + 40% of FES or ICES) + 2% of SRPCS			

Pass or Fail Calculations of the Courses

Basic Medical Sciences I (MED 104)

Pass; *TS* ≥ *60*

Fail; FES < 50 (barrier point), ICES < 50 (barrier point), or/and TS < 60

The student is exempted from FE, if the CMS is \geq 80 and all CSs are \geq 60

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

Introduction to Clinical Practice I (MED 102)

Pass; ICPS ≥ 60

Fail; ICPS < 60

Anatomical Drawing (MED 103)

Pass; ADS ≥ 60 *Fail;* ADS < 60

Common Compulsory Courses

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

Pass; CCCSs ≥ 50
Fail; CCCSs < 50

Elective Courses

(MED 611, MED 612, MED 613, MED 619, MED 620, MED 623, MED 632)

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	СВ
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 non attendance to the courses)

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

EXAM RULES

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

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

may face suspension and dismissal from the Yeditepe University <u>for up to one school year</u>. In addition, student may loose any academic and non academic scholarships given by the Yeditepe University for up to four years. The appropriate sanctions are determined by the Yeditepe University administration according to egregiousness of the Policy violation.

ONLINE EXAM RULES

- 1. The online examination application of the Education Management Information System (EYS) works with connection to the internet. During your exam, you should take the exam in a quiet area where you have an internet connection.
- 2. You are not allowed to take the online exam from places that are not suitable for the exam such as private cars, public transportation vehicles, cafes, etc. You are expected to take the online exam in your own home, if possible, in your own study room.
- 3. During the online exam, connect to the Internet at a location near your wireless modem or, if possible, using the LAN cable to avoid network problems.
- 4. Online exam lenght, number of questions and question types will be announced by coordinators (preclinical years) or educational supervisors (clerkships).
- 5. You can use a desktop or laptop computer for the exam. Google Chrome should be used as an internet browser.
- 6. First of all, you need to register your computer with your Yeditepe e-mail address at tf.yeditepe.edu.tr/online_sinav/ You can attend your online exam only from the registered (IP address is registered) computer.
- 7. You must be ready by entering the system 30 minutes before the specified time for the online exam.
- 8. Before starting the exam, you must connect to the Google Meet session from the link which will be delivered by the Coordinator. The online exam will be recorded with the Google Meet.
- 9. Identity check will be done before the exam starts. For this reason, you should have your student IDs with you.
- 10. When you enter the online exam system, you will be asked to switch the program in full screen mode and continue with it. How to switch to full screen mode and which key combinations* to use for this will be indicated on the online exam screen.
- 11. Your computer's camera should be turned on during the exam.
- 12. The total time which is given to you for the exam will be displayed on the screen. In other words, after recording your answer, you will be able to move on to the next question without waiting.
- 13. After selecting your choice, do not forget to save it from the confirmation button.
- 14. You can answer the questions in the order you want. You will be given the option to check your answers or to return to the question you left blank.
- 15. The order of the questions will be arranged differently for each student and will be displayed on the screen.
- 16. If you have disconnection to internet during the exam, you will be able to reconnect to the exam. In this case, you will be able to continue the exam from where you left off.

17. You will not be allowed to leave the computer during the exam (online exam process will be recorded through the Google Meet).

ONLINE EXAM ETHICAL RULES

*This rules also includes situations that will be considered as cheating during the exam.

During the exam, students, shall act honestly, and not to tend cheating to uphold the reputation of the medical student.

All students must have their cameras on and their microphones off during the exam. A healthy camera view is a requirement of the online exam. If this cannot be achieved with an integrated or external camera, students should download google meet to their mobile phones, join the observer links on their phones, and transmit their images with the phone's camera throughout the exam.

During the exam, It is forbidden;

- 1. to wear headphones, 2. to speak and / or to close the mouth to speak. 3. to go out of the camera view, 4. to use or attempt to use mobile phones etc. 5. to look outside the exam screen,
- 6. to take screenshots of the questions and share them electronically

Students who exhibit the above-mentioned behaviors will be warned by the observers. Despite the warnings, the exams of the students who constantly behave in this way will be considered invalid and these students will be regarded within the scope of the Student Disciplinary Regulations for Higher Education Institutions.

WEEKLY COURSE SCHEDULE and LOCATIONS*

(MED 203, MED 202)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-09:50	MED 203	MED 203	MED 203		MED 203
09.00-09.30	(B 310)	(B 310)	(B 310)		(B 310)
10:00-10:50	MED 203	MED 203	MED 203		MED 203
10.00-10.30	(B 310)	(B 310)	(B 310)		(B 310)
11:00-11:50	MED 203	MED 203	MED 203		MED 203
11.00-11.30	(B 310)	(B 310)	(B 310)		(B 310)
12:00-12:50	MED 203	MED 203	MED 203		MED 203
12.00-12.30	(B 310)	(B 310)	(B 310)		(B 310)
13:00-13:50					
14:00-14:50	MED 203	MED 203	MED 203	MED 203	MED 202
14.00-14.30	(B 310)	(B 310)	(B 310)	(B 310)	(Base Floor 442)
15:00-15:50	MED 203	MED 203	MED 203	MED 203	MED 202
13.00-13.30	(B 310)	(B 310)	(B 310)	(B 310)	(Base Floor 442)
16:00-16:50	MED 203	MED 203	MED 203	Elective Course	MED 202
10.00-10.30	(B 310)	(B 310)	(B 310)	(SPRING)	(Base Floor 442)
17:00-17:50	MED 203	MED 203	MED 203	Elective Course	MED 202
17.00-17.30	(B 310)	(B 310)	(B 310)	(SPRING)	(Base Floor 442)

COURSE CODES: COURSES and LOCATIONS

MED 203

Basic Medical Sciences II (B 310) or Laboratories**

MED 202

Introduction to Clinical Practice II (CSL)*** or (B 310)

ELECTIVE COURSES CODES:

MED 614 Business Etiquette and Personal Image

MED 615 Futurism and Idea Creation

MED 616 Medical Management, Leadership and Coaching

MED 617 Stress and Time Management

MED 618 Medicine & Pharmaceutical Industry

MED 621 Epidemiology Journal Club

MED 622 Application of Economics in Health Care

MED 624 Narrative Medicine

MED 627 Presentation of Medicine on Media

MED 628 Healthy Living: The Milestones of the Life for Performance Management

MED 629 Music and Medicine

MED 630 Health Law

MED 631 Creative Drama II

CLASSES

B 311 Ground Floor

Elective Course Classess Will be announced later

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

** 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 Embriology 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)

RECOMMENDED TEXTBOOKS

NO	DEPARTMENT	ТЕХТВООК	AUTHOR	PUBLISHER
		Gray's Anatomy for Students	R.L. Drake et al, 3rd Edition, 2014	Churchill Livingstone
		Last's Anatomy: Regional and Applied	Chummy S. Sinnatamby, 12th Edition	Churchill Livingstone
1	ANATOMY	A Textbook of Neuroanatomy	Maria Patestas, Leslie P. Gartner, 2nd Edition, 2016	Wiley-Blackwell
		Hollinshead's Textbook of Anatomy	Cornelius Rosse, Penelope Gaddum-Rosse, 5th Edition, 1998	Lippincott Williams & Wilkins
		Textbook of Biochemistry with Clinical Correlations	Thomas M. Devlin	Wiley-Liss Publishing Company
2	BIOCHEMISTRY	Harper's Illustrated Biochemistry	Robert K. Murray et al	Mc-Graw-Hill Companies
		Lehninger Principles of Biochemistry	David L. Nelson, Michael M. Cox	W.H. Freeman Publishing Company
3	BIOPHYSICS	Introductory Biophysics: Perspectives on the Living State	J.R. Claycomb, J.P. Tran	Jones & Bartlett Publishers
4	BIOSTATISTICS	Primer of Biostatistics	Stanton Glantz	Mc-Graw-Hill Companies
5	HISTOLOGY	Junqueira's Basic Histology: Text and Atlas 13 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,	Elsevier
		·	5th edition,.2015	
7	MEDICAL BIOLOGY	Molecular Biology of the Cell	Bruce Alberts et al	Garland Science
8	MEDICAL MICROBIOLOGY	Medical Microbiology: with Student Consult	P. R. Murray et al	Saunders

9	PATHOLOGY	Basic Pathology, 10e	Vinay Kumar MBBS MD et al. 2017 (ISBN-13: 978- 0323353175)	Elsevier
		Goodman & Gilman's The Pharmacological Basis of Therapeutics	L.L. Brunton ed.	McGraw-Hill, New York,
10	PHARMACOLOGY	Basic and Clinical Pharmacology	B. G. Katzung McGraw-Hill, Ne	McGraw-Hill, New York
		Principles of Pharmacology	Golan, D.E et al	Lippincott Williams & Wilkins
		Guyton and Hall Textbook of Medical Physiology	John E. Hall, 13th Edition, 2016	Saunders
11	PHYSIOLOGY	Medical Physiology	Walter F. Boron, Emile L. Boulpaep 3rd Edition, 2016	Elsevier
		Human Physiology	Stuart Ira Fox, 14th Edition, 2015	McGraw-Hill Education

ACADEMIC CALENDAR 2020 - 2021

BASIC MEDICAL SCIENCES II

COMMITTEE I

CARDIOVASCULAR SYSTEM (6 Weeks)

Beginning of Committee: October 05 2020 Monday
End of Committee: November 13, 2020 Friday

Committee Exam (Theoretical and Practical Exams): November 09-13, 2020 Monday-Friday

Committee Exam Discussion: November 13, 2020 Friday National Holiday: October: 29, 2020 Thursday

Commemoration of Atatürk: November 10, 2020

COMMITTEE II

RESPIRATORY SYSTEM (6 Weeks)

Beginning of Committee:

November 16, 2020 Monday
End of Committee:

December 25, 2020 Friday

Committee Exam (Theoretical and Practical Exams): December 21-25, 2020 Monday-Friday

Committee Exam Discussion: December 25, 2020 Friday

COMMITTEE III

GASTROINTESTINAL SYSTEM (7 Weeks)

Beginning of Committee: December 28, 2020 Monday End of Committee: February 26, 2021 Friday

Committee Exam (Theoretical and Practical Exams): February 22-26, 2021 Monday-Friday

Committee Exam Discussion: February 26, 2021 Friday
New Year: January 1, 2021 Friday

MIDTERM BREAK: February 1, 2021 February 14, 2021

COMMITTEE IV

NERVOUS SYSTEM (8 Weeks)

Beginning of Committee: March 1, 2021 Monday End of Committee: April 22, 2021 Friday

Committee Exam (Theoretical and Practical Exams): April 19-22, 2021 Monday-Thursday

Committee Exam Discussion:April 22, 2021FridayPhysicians' Day:March 14, 2021SundayNational Holiday:April 23, 2021Friday

COMMITTEE V

ENDOCRINE and UROGENITAL SYSTEMS (8 Weeks)

Beginning of Committee: April 26 2021 Monday
End of Committee: June 25, 2021 Friday
Committee Exam (Theoretical and Practical Exams): June 21-25, 2021 Monday-Fr

Committee Exam (Theoretical and Practical Exams): June 21-25, 2021 Monday-Friday Committee Exam Discussion: June 25, 2021 Friday

Labor's Day:

May 1, 2021

Saturday

May 45 2024

Modesada

Feast of Ramadan May 13-15 2021 Wednesday-Saturday

National Holiday: May 19, 2021 Wednesday

Make-up Exam: July 12-14, 2021 Monday-Wednesday

Final Exam: July 30, 2021 Friday Incomplete Exam: August 13, 2021 Friday

National Holiday: National Holiday Physicians' Day Labor's Day Feast of Ramadan National Holiday October: 29, 2020 April 23, 2021 March 14, 2021 May 1, 2021 May 13-15, 2021 May 19, 2021 Thursday Thursday Sunday Friday Wedn..-Saturday

Tuesday

ELECTIVE COURSES-Spring 2020-2021

Introduction to Elective Courses
Beginning of Elective Courses
Midterm Exam
Make-up Exam
Final Exam
Incomplete Exam

December 17, 2020 February 19, 2021 April 2, 2021 June 14-18, 2021 June 21-28, 2021 July 5-27, 2021 Thursday Friday Firday Monday-Friday

Monday Monday-Tuesday

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

Midterm Exam: Make-up Exam: Final Exam: Incomplete Exam: March 05, 2021 June 4, 2021 June 28-July 2, 2021 July 29, 2021

Friday Monday-Friday Thursday

Friday

SCIENTIFIC RESEARCH AND PROJECT COURSE-II (SPRC-II)

Exam June 17, 2021 Thursday 15:00

THE COORDINATION COMMITTEE MEETINGS

1. Coordination Committee Meeting: 2. Coordination Committee Meeting:

(with student participant)

3. Coordination Committee Meeting: (with student participant)

November 6, 2021 January 12, 2021 Friday Tuesday

May 25, 2021

Tuesday

LECTURERS

MED 203 BASIC MEDICAL SCIENCES II			
DISCIPLINES	LECTURERS		
	ERDEM SÖZTUTAR, MD, Assist. Prof.		
	Aikaterini PANTELİ, MD, Lecturer		
ANATOMY	Mohammed ELGAZZAR, MD, Lecturer		
	LAB: Edibe BİLİŞLİ, DVM		
	LAB: Zeynep Büşra ODABAŞ, DMD		
	İnci ÖZDEN, PhD, Prof.		
BIOCHEMISTRY	LAB: Jale ÇOBAN, MD, Prof.		
	LAB: Müge KOPUZ ALVAREZ NOVAL, PhD, Assist. Prof.		
DIODINGIOS	Akif MAHARRAMOV, PhD, Assist. Prof.		
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.		
BIOSTATISTICS	E. Çiğdem ALTUNOK, PhD, Assist. Prof.		
	Aylin YABA UÇAR, PhD, Assoc. Prof.		
HISTOLOGY & EMBRYOLOGY	Alev CUMBUL, PhD, Assist. Prof.		
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof.		
	Turgay İSBİR, PhD, Prof.		
MEDICAL BIOLOGY	Soner DOĞAN, PhD, Assoc. Prof.		
	Deniz KIRAÇ, PhD, Assoc. Prof.		
	Aynur EREN, MD, Prof.		
MEDICAL MICROBIOLOGY	Pınar ÇIRAGIL, MD, Prof.		
	Çağatay ACUNER, MD, Assoc. Prof.		
PATHOLOGY	Aydın SAV, MD, Prof.		
	Bayram YILMAZ, PhD, Prof.		
PHYSIOLOGY	Mehtap KAÇAR, MD PhD, Assoc. Prof.		
	Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof.		
SCIENTIFIC RESEARCH AND PROJECT	Bayram YILMAZ, PhD, Prof.		
COURSE-II	Deniz KIRAÇ, PhD, Assoc. Prof.		

OTHER COURSES		
DISCIPLINES	LECTURERS	
MED 202 INTRODUCTION to CLINICAL PRACTICE II	Özlem TANRIÖVER, MD, MPH, Prof. A. Arzu AKALIN, MD, Assist. Prof. Serdar ÖZDEMİR, MD, 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.
- 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. Desciribe 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 lyphoreticular System and blood
 - 7.1. explain the histological properties of Lyph 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 te view of literature
- 27.0 prepare a presentation of scientific research
- 28.0 for statistical decision
 - 27.1 lists the types of the statistical hypothesis.
 - 27.2 lists the types of errors in statistical decison making
 - 27.3 explain the steps of a statistical hypothesis test
- 29.0 For human flora:
 - 28.1 describe the flora,
 - 28.2 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 ASSESSMENT MATRIX

LEARNING	DISCIPLINE	LECTURER/	I	DISTRUBITIO	ON of MCQs	5
OBJECTIVES	DISCH LINE	INSTRUCTOR	CE	FE	IE	TOTAL
3.0-4.0	ANATOMY	Dr. A. Panteli	14	5	5	24
8.0-10.0	BIOCHEMISTRY	Dr. İ. Özden	11	4	4	19
1.0	BIOPHYSICS	Dr. A. Maharramov	9	4	4	17
28.0	BIOSTATISTICS	Dr. Ç. Altunok	2	1	1	4
5.0-7.0	HISTOLOGY &	Dr. A. Yaba Uçar	10	4	4	18
3.0 7.0	EMBRYOLOGY	Dr. A. Cumbul	10		"	10
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	MEDICAL MICROBIOLOGY	Microbiology Lecturer	8	3	3	14
19.0-25.0	PATHOLOGY	Dr. A. Sav	6	3	3	12
		Dr. B. Yılmaz				
8.0-17.0	PHYSIOLOGY	Dr. M. Kaçar	32	12	12	56
		Dr. B. Gemici Başol				
31	PBL		1	0	0	1
	•	TOTAL	100	38/200#	38/200#	176
LEARNING OBJECTIVES	DISC	CIPLINE	DIS	TRUBITION LF	of LAB POII	NTS
3.0-4.0	ANATOMY			3		
8.0-10.0	BIOCHEMISTRY					
5.0-6.0	HISTOLOGY & EMBRYOLOGY			1		
29.0-30.0	MEDICAL MICROBIOLOGY			1	0	
8.0- 17.0	PHYSIOLOGY		4			
		TOTAL		10	00	

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 / 05- 09 Oct 2020

	Monday	Tuesday	Wednesday	Thursday	Friday
	05-Oct-2020	06-Oct-2020	07-Oct-2020	08-Oct-2020	09-Oct-2020
09.00- 09.50	Introductory Session Introduction to Phase II Phase II Coordination Committee/ Introduction to Committee I Secretary of Committee	Lecture Porphin, Porphyrins, Heme, Hemoglobin, Structure of Hemoglobin İnci Özden	Independent Learning	Lecture Introduction to Bioelectromagnetics Magnetic Field Akif Maharramov	Lecture Synthesis of Hemoglobin, Disorders Concerning Synthesis of Hemoglobin Inci Özden
10.00- 10.50	Introduction to PBL Session İ.Çağatayn Acuner Serdar Özdemir	Lecture Porphin, Porphyrins, Heme, Hemoglobin, Structure of Hemoglobin İnci Özden	Lecture Leucocyte Circulation and Migration into Tissue Gülderen Yanıkkaya Demirel	Lecture Introduction to Bioelectromagnetics Electric Field Akif Maharramov	Lecture Synthesis of Hemoglobin, Disorders Concerning Synthesis of Hemoglobin İnci Özden
11.00- 11.50	Lecture Introduction to Medical Microbiology Microbiology Lecturer	Lecture Introduction to Cardiovascular System Aikaterini Panteli	Lecture Functions of Hemoglobin <i>İnci Özden</i>	Lecture Functions of Blood Burcu Gemici Başol	Lecture Great Vessels of the Heart <i>Aikaterini Panteli</i>
12.00- 12.50	Lecture Sterilization and Disinfection Microbiology Lecturer	Lecture Pericardium and Outer Surface of the Heart Aikaterini Panteli	Lecture Functions of Hemoglobin <i>Inci Özden</i>	Lecture Erythrocyte <i>Burcu Gemici Başol</i>	Lecture Major Vessels of the Body <i>Aikaterini Panteli</i>
13.00- 13.50	Lunch Break				
14.00- 14.50	Lecture Thoracic Cavity & Mediastinum Aikaterini Panteli	Lecture / Scientific Research and Project Course - II Presentation of Scientific Research Deniz Kıraç	Lecture Histology of Lymph Organs; General Aspects, Thymus and Lymph Node Aylin Yaba Uçar	Lecture Erythrocytes <i>Burcu Gemici Başol</i>	Lecture Introduction to Mycology Microbiology Lecturer
15.00- 15.50	Lecture Thoracic Cavity & Mediastinum Aikaterini Panteli	Lecture / Scientific Research and Project Course - II Presentation of Scientific Research Deniz Kıraç	Lecture Histology of Lymph Organs; Spleen and MALT (Tonsils) Aylin Yaba Uçar	Independent Learning	Lecture Introduction to Mycology Microbiology Lecturer
16.00- 16.50	Independent Learning	Independent Learning	Lecture Chambers of the Heart Aikaterini Panteli	Independent Learning	Independent Learning
17.00-17.50	Independent Learning	Independent Learning	Lecture Chambers of the Heart Aikaterini Panteli	Independent Learning	Independent Learning

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

COMMITTEE I - CARDIOVASCULAR SYSTEM II. WEEK / 12- 16 Oct 2020

	Monday 12-Oct-2020	Tuesday 13-Oct-2020	Wednesday 14-Oct-2020	Thursday 15-Oct-2020	Frie 16-Oc	day t-2020
09.00- 09.50	Independent Learning	Lecture Platelets and Coagulation <i>Mehtap Kaçar</i>	Lecture Regulation of Cardiac Function Bayram Yılmaz	Lecture Rhythmical Excitation of the Heart Bayram Yılmaz	Independe	nt Learning
10.00- 10.50		Lecture Platelets and Coagulation Mehtap Kaçar	Lecture Regulation of Cardiac Function Bayram Yılmaz	Lecture Rhythmical Excitation of the Heart Bayram Yılmaz	Independe	nt Learning
11.00- 11.50	PBL Session	Lecture Coronary arteries, Cardiac Veins, and Cardiac Conduction System Aikaterini Panteli	Lecture Degradation of Hemoglobin İnci Özden	Lecture Sampling, Data Collection and Data Processing E. Çiğdem Altunok	Introduction to Ly	ture mphatic System ni Panteli
12.00- 12.50		Lecture Coronary arteries, Cardiac Veins, and Cardiac Conduction System Aikaterini Panteli	Lecture Degradation of Hemoglobin <i>İnci Özden</i>	Lecture Statistical Decision Theory, Test of Hypothesis and Significance E. Çiğdem Altunok	Circulation	ture of Lymph ni Panteli
13.00- 13.50			Lunch Break			
14.00- 14.50	Lecture Leukocytes <i>Burcu Gemici Başol</i>	Lecture Blood Types and Transfusion Reactions Bayram Yılmaz	Lecture Histology of Circulatory Systems; Gn Spec. Arteries Aylin Yaba Uçar	Lecture Ischemia and Infarction <i>Aydın Sav</i>	ICP / Theoretical Le Washing & Sterile Özlem T	cture for Hand Gloves and Mask
15.00- 15.50	Lecture Leukocytes & Lymphocytes Burcu Gemici Başol	Lecture Blood Types and Transfusion Reactions Bayram Yılmaz	Lecture Histology of Circulatory Systems; Capillaries & Veins Aylin Yaba Uçar	Lecture Ischemia and Infarction Aydın Sav	ICP / CSL: Hand Washing &	
16.00- 16.50	Lecture Introduction to Pathology Aydın Sav	Lecture Disorders Concerning Hemoglobin Metabolism Inci Özden	Lecture Adaptations Aydın Sav	Lecture Development of Circulatory Systems; Endocardial Tube Formation & Looping Alev Cumbul	Wearing Sterile Gloves Özlem Tanrıöver/ Serdar	SRPC SGS Group D Deniz Kıraç
17.00-17.50	Independent Learning	Lecture Disorders Concerning Hemoglobin Metabolism Inci Özden	Lecture Adaptations Aydın Sav	Lecture Development of Circulatory Systems; Septation Alev Cumbul	Özdemir Group A	

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

COMMITTEE I - CARDIOVASCULAR SYSTEM III. WEEK / 19- 23 Oct 2020

	Monday 19-Oct-2020	Tuesday 20-Oct-2020	Wednesday 21-Oct-2020	Thursday 22-Oct-2020	Frid 23-Oct	•
09.00- 09.50	10 001 2020	Lecture Hemorheology Akif Maharramov	Lecture Principles of Electrocardiography Bayram Yılmaz	Independent Learning	Independen	
10.00- 10.50	PBL Session	Lecture Hemorheology <i>Akif Maharramov</i>	Lecture Electrocardiographic Interpretation of Cardiac Abnormalities Bayram Yılmaz	Lecture Microcirculation and the Lymphatic System Bayram Yılmaz	Independen	t Learning
11.00- 11.50		Lecture Hyperemia & Congestion Aydın Sav	Lecture Coronary Circulation Mehtap Kaçar	Lecture Capillary Fluid Exchange, Interstitial Fluid, and Lymph Flow Bayram Yılmaz	Lect Nervous Regu Circul: Bayram	ulation of the ation
12.00- 12.50	Lecture Fetal circulation Aikaterini Panteli	Lecture Hyperemia & Congestion Aydın Sav	Lecture Cardiac Failure <i>Mehtap Kaçar</i>	Lecture Circulatory Shock and Physiology of Its Treatment Mehtap Kaçar	Lect Nervous Regu Circuli Bayram	ulation of the ation
13.00- 13.50			Lunch Break			
14.00- 14.50	Lecture Congenital Heart Anomalies Alev Cumbul	Lecture Systemic Mycoses Microbiology Lecturer	Lecture Akif Maharramov	Lecture Development of Head; Splanchocranium, Neurocranium Aylin Yaba Uçar	ICP / CSL: Hand Washing &	
15.00- 15.50	Lecture Cardiac Arrhythmias Bayram Yılmaz	Lecture Superficial/Subcutaneous Mycosis Microbiology Lecturer	Lecture Akif Maharramov	Lecture Development of Neck; Pharyngeal Arches and Anomalies Aylin Yaba Uçar	Wearing Sterile Gloves Özlem Tanrıöver / Serdar	SRPC SGS Group A Deniz Kıraç
16.00-16.50	Lecture Cardiac Arrhythmias Bayram Yılmaz	Lecture Development of Circulatory Systems; Arteries and Anomalies Alev Cumbul	Lecture Immunology of heart and vessels Gülderen Yanıkkaya Demirel	Lecture Biophysics of Hemodynamics Akif Maharramov	<i>Özdemir</i> Group B	
17.00-17.50	Independent Learning	Lecture Development of Circulatory Systems; Veins and Anomalies Alev Cumbul	Lecture Immunology of heart and vessels Gülderen Yanıkkaya Demirel	Lecture Measurements of Different Hemodynamic Parameters Akif Maharramov	Independen	t 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 / 26 Oct – 30 Oct 2020

	Monday 26-Oct-2020	Tuesday 27-Oct-2020	Wednesday 28-Oct-2020	Thursday 29-Oct-2020	Frio 30-Oc	•
09.00- 09.50	Lecture Vascular Distensibility and Functions of Arterial and Venous Systems Bayram Yılmaz	Lecture Heart Valves and Heart Sounds Bayram Yılmaz	Lecture Regulation of Blood Pressure <i>Mehtap Kaçar</i>		Lec Local and Hum Blood Flow b Bayram	oral Control of y the Tissues
10.00- 10.50	Lecture Vascular Distensibility and Functions of Arterial and Venous Systems Bayram Yılmaz	Lecture Heart Valves and Heart Sounds Bayram Yılmaz	Lecture Regulation of Blood Pressure <i>Mehtap Kaçar</i>		Lec Local and Hum Blood Flow b Bayram	oral Control of y the Tissues
11.00- 11.50	Lecture Opportunistic Mycoses-I Microbiology Lecturer	Lecture Biological Basis of Cardiovascular Diseases; Death Begets Failure in the Heart Turgay İsbir	Lecture Introduction to Bioelectromagnetics: Electromagnetic Field Akif Maharramov		Laboratory / Hematocrit Det	
12.00- 12.50	Lecture Opportunistic Mycoses-II Microbiology Lecturer	Lecture Biological Basis of Cardiovascular Diseases; Death Begets Failure in the Heart Turgay İsbir	Lecture Bioelectromagnetic Effects on the Heart Akif Maharramov	National Holiday	Blood Typing & <i>Bayram Yılm</i> <i>Kaçar & Burcu</i>	az & Mehtap
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break		Lunch	Break
14.00- 14.50	Lecture Diagnostic Methods in Mycology Microbiology Lecturer	Lecture Oxygen, Oxidative Stress, NO, Redox Disequilibrium in the Failing Heart and Cardiovascular System Deniz Kıraç	Independent Learning		ICP / CSL:Hand Washing &	
15.00- 15.50	Laboratory / Microbiology Principles and Procedures of Laboratory Safety Microbiology Instructors	Cardinal Cardiovascular System Lecture Oxygen, Oxidative Stress, NO, Redox Disequilibrium in the Failing Heart and Cardiovascular System Deniz Kıraç	Independent Learning		Wearing Sterile Gloves Arzu Akalın / Serdar Özdemir	SRPC SGS Group B Deniz Kıraç
16.00- 16.50	Independent Learning	Lecture Principles of Hemodynamics Burcu Gemici Başol	Independent Learning		Group C	
17.00-17.50	Independent Learning	Lecture Principles of Hemodynamics Burcu Gemici Başol	Independent Learning		Independer	nt 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 / 02 – 06 Nov 2020

	Monday 02-Nov-2020	Tuesday 03-Nov-2020	Wednesday 04-Nov-2020	Thursday 05-Nov-2020	Frid 06-Nov	•
09.00- 09.50	Laboratory / Anatomy Thoracic Wall, Cavity and Mediastinum Aikaterini Panteli Group 1	Laboratory / Anatomy Pericardium, Outer Surface and Chambers of the Heart Aikaterini Panteli Group 1	Independent Learning	Laboratory / Microbiology Collection, Storage and Transport of Specimens Microbiology Instructors	Laboratory Coronary Arte Veins, Cardiac System, Grea Heart an Lymphatic Aikaterin	eries, Cardiac c Conduction at Vessels of ad Body c System
10.00- 10.50	Lecture Blood Coagulation, Primary Hemostasis İnci Özden	Lecture Secondary hemostasis, Procoagulation, Anticoagulation, Fibrinolysis Inci Özden	Independent Learning	Independent Learning	Independen	at Learning
11.00- 11.50	Laboratory/ Physiology ECG I Bayram Yılmaz & Mehtap	Laboratory / Biochemistry Peripheral Blood Smear Jale Çoban & Müge Kopuz Alvarez	Laboratory / Physiology ECG-II Bayram Yılmaz & Mehtap Kaçar &	Laboratory / Physiology Blood Pressure Bayram Yılmaz & Mehtap Kaçar &	ICP / CSL: Hand Washing	000000
12.00- 12.50	Kaçar & Burcu Gemici Başol	Noval	Burcu Gemici Başol	Burcu Gemici Başol	& Wearing Sterile Gloves <i>Arzu Akalın /</i>	SRPC SGS Group C Deniz Kıraç
13.00- 13.50		Lunch	Break		Serdar Özdemir Group D	
14.00-14.50	Laboratory / Histology &Embryology Histology of Cardiovascular	Independent Learning	Laboratory / Histology&Embryology Histology of Lymphoreticular	Laboratory / Physiology Heart Sounds		
15.00- 15.50	System Alev Cumbul & Aylin Yaba Uçar	Independent Learning	System Alev Cumbul & Aylin Yaba Uçar	Bayram Yılmaz & Mehtap Kaçar & Burcu Gemici Başol	Independen	nt Learning
16.00- 16.50						
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning		

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

COMMITTEE I - CARDIOVASCULAR SYSTEM VI. WEEK / 09 – 13 Nov 2020

	Monday 09-Nov-2020	Tuesday 10-Nov-2020	Wednesday 11-Nov-2020	Thursday 12-Nov-2020	Friday 13-Nov-2020
09.00- 09.50					Independent Learning
10.00- 10.50	Assessment Session (Physiology and Histology&Embryology	Independent Learning	Independent Learning	Assessment Session	
11.00- 11.50	Practical Exams)				Committee I (MCQ)
12.00- 12.50					
13.00- 13.50	Lunch Break	Commemoration of Atatürk	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50				Program Evaluation Session Evaluation of the Committee I Program Secretary of the Committee	
			Independent Learning	Independent Learning	
15.00- 15.50	Assessment Session (Anatomy Practical Exam)		Independent Learning	Independent Learning	
15.00- 15.50 16.00- 16.50			Independent Learning	Independent Learning	Independent Learning

COMMITTEE II - RESPIRATORY SYSTEM DISTRIBUTION of LECTURE HOURS

November 16- December 25, 2020 COMMITTEE DURATION: 6 WEEKS

MED 203	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	TOTAL
	DISCIPLINE			
	ANATOMY	11	1GX4H	15
	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	1GX4H	30
	PATHOLOGY	9	0	9
	PHYSIOLOGY	17	1GX2H	19
	SCIENTIFIC RESEARCH and PROJECT COURSE-II	0	4GX3H	3
	TOTAL	102	16	118
	INDEPENDENT LEARNING HOURS			83

OTHER COURSES

1 MED 202 1	INTRODUCTION to CLINICAL PRACTICE- II	1	4GrX3H	4
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Coordination Committee	Head	Mehtap KAÇAR, MD PhD. Assoc. Prof.
	Secretary	Deniz KIRAÇ, PhD. Assist. Prof.
	Member	Çağatay ACUNER, MD. Assoc. Prof.
	Member	Alev CUMBUL, MD. Assoc. Prof.

COMMITTEE II - RESPIRATORY 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 Assist. Prof.			
BIOSTATISTICS	E. Çiğdem ALTUNOK, 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	İbrahim Çağatay ACUNER, MD. Assoc. Prof. Microbiology Lecturer/Instructor			
PATHOLOGY	Aydın SAV, MD Prof.			
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR, MD PhD Assoc. 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	Serdar ÖZDEMİR, MD, PhD, Assist. Prof. Emin Gökhan GENCER, MD, PhD, Assist. Prof Cem ŞİMŞEK, MD.			

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. count significance tests in biostatistics.
- 21.0. count biostatistical sampling methods.
- 22.0. choose significance tests according to the properties of biostatistical data.
- 23.0. explain case scenario related basic medical science topics in a clinical context.

COMMITTEE II - RESPIRATORY SYSTEM COMMITTEE II ASSESSMENT MATRIX

LEARNING	DISCIBLINE	DISCIPLINE		LECTURER/		DISTRUBITION of MCQs and SbMCQ			
OBJECTIVES	DISCIPLINE	•	INSTRUCTO	DR	CE	FE	IE	TOTAL	
2.0, 23.0	ANATOMY		Dr. A. Panteli		11	4	4	19	
1.0, 23.0	BIOPHYSICS		Dr. A. Maharramov		4	1	1	6	
20.0 - 22.0	BIOSTATISTIC	S	Dr. Ç. Altunok		4	1	1	6	
3.0	HISTOLOGY & EMBRYOLOGY		Dr. A. Yaba Uçar Dr. A. Cumbul		6	2	2	10	
12.0	IMMUNOLOGY		Dr. G. Yanıkkaya Demirel	a	7	3	3	13	
13.0	MEDICAL GENETIC		Dr. Ö.F. Bayrak		18	6	6	30	
14.0-15.0	MEDICAL MICROBIOLOGY		Dr. İ. Ç. Acuner Microbiology Lecturer		24	9	9	42	
16.0-17.0	PATHOLOGY		Dr. A. Sav		9	3	3	15	
4.0-11.0, 23.0.	PHYSIOLOGY		Dr. B. Yılmaz Dr. M. Kaçar Dr. B. Gemici Başol		16	6	6	28	
23.0	PBL		1		1	0	0	1	
			TOTAL		100	35/200#	35/200#	170	
					DISTRUBITION	of LAB ASSESS	SMENT POIN	TS.	
LEARNING	LEARNING OBJECTIVES		DISCIPLINE		DISTRUBITION of LAB ASSESSMENT POINTS LPE				
2.0		ANA	ATOMY		40				
3.0		HIS	TOLOGY & BRYOLOGY	10					
14.0-15.0		ME	DICAL ROBIOLOGY			20			
4.0-11.0		PHY	/SIOLOGY	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 / 16 - 20 Nov 2020

	Monday 16-Nov-2020	Tuesday 17-Nov-2020	Wednesday 18-Nov-2020	Thursday 19-Nov-2020	Friday 20-Nov-2020
09.00- 09.50	Independent Learning	Lecture Test Hypotheses and Significance in Large Samples E. Çiğdem Altunok	Lecture Introduction to Respiratory System Aikaterini Panteli	Independent Learning	Independent Learning
10.00- 10.50	Independent Learning	Lecture Test Hypotheses and Significance in Large Samples E. Çiğdem Altunok	Lecture Nasal Anatomy and Paranasal Sinuses <i>Aikaterini Panteli</i>	Independent Learning	Independent Learning
11.00- 11.50	Independent Learning	Lecture Histology of the Upper Respiratory Tract Alev Cumbul	Lecture Cellular Injury and Necrosis Aydın Sav	Independent Learning	Independent Learning
12.00- 12.50	Introduction to Committee II Secretary of Committee	Lecture Histology of the Upper Respiratory Tract Alev Cumbul	Lecture Cellular Injury and Necrosis <i>Aydın Sav</i>	Independent Learning	Lecture ICP/CSL: Vital Signs Özlem Tanrıöver
13.00- 13.50			Lunch Break		
14.00- 14.50		Lecture Introduction to Bacteriology Microbiology Lecturer	Lecture Infection and Immunity Gülderen Yanıkkaya Demirel	Lecture Bacterial Genetics Microbiology Lecturer	Ral Signs Gencer demir PC SGS raç B IL
15.00- 15.50	PBL Session	Lecture Bacterial Genetics Microbiology Lecturer	Lecture Infection and Immunity Gülderen Yanıkkaya Demirel	Lecture Bacterial Pathogenesis Microbiology Lecturer	SL: Vii khan & ar Öz D SRI niz Kı
16.00- 16.50		Independent Learning	Independent Learning	Lecture Bacterial Pathogenesis Microbiology Lecturer	
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning

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

COMMITTEE II - RESPIRATORY SYSTEM II. WEEK / 23 - 27 Nov 2020

	Monday 23-Nov-2020	Tuesday 24-Nov-2020	Wednesday 25-Nov-2020	Thursday 26-Nov-2020	Friday 27-Nov-2020	
09.00- 09.50	Lecture The Pharynx Aikaterini Panteli		Lecture Test Hypotheses and Bignificance in Large Samples E. Çiğdem Altunok	Independent Learning	Independent Learning	
10.00- 10.50	Lecture The Pharynx <i>Aikaterini Panteli</i>	Independent Learning	Lecture Test Hypotheses and Bignificance in Large Samples E. Çiğdem Altunok	Laboratory / Anatomy Upper Respiratory System Aikaterini Panteli	Vital Signs Gencer & Szdemir up D up C S SGS Krraç	
11.00- 11.50	Lecture Hemodynamics <i>Aydın Sav</i>	Lecture The Larynx Aikaterini Panteli	Lecture Introduction to Medical Genetics Ömer Faruk Bayrak	Laboratory /Histology&	CP/CSL: Vital Si Gökhan Gence Serdar Özdemi Group D Group C SRPC SGS Deniz Kraç	
12.00- 12.50	Lecture Hemodynamics <i>Aydın Sav</i>	Lecture The Larynx Aikaterini Panteli	Lecture Introduction to Medical Genetics Ömer Faruk Bayrak	Embryology Histology of Respiratory System Alev Cumbul, Aylin Yaba Uçar	ICP/CSL: YE Gökhan (Serdar Ö. Groun SRPC Deniz	
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50		Lecture Gram Positive Cocci Microbiology Lecturer	Lecture Growth and Cultivation of Bacteria Microbiology Lecturer	Lecture Hemorrhage and Thrombosis <i>Aydın Sav</i>	Lecture The Human Genome and Chromosomal Basis of Heredity Ömer Faruk Bayrak	
15.00- 15.50	PBL Session	Lecture Gram Positive Cocci Microbiology Lecturer	Lecture Microbiome <i>Microbiology Lecturer</i>	Lecture Hemorrhage and Thrombosis Aydın Sav	Lecture Cytogenetics and Chromosomal Disorders Ömer Faruk Bayrak	
16.00- 16.50		Lecture Histology of The Respiratory Systems; Conducting Part Alev Cumbul	Independent Learning	Lecture Patterns of Single Gene Inheritance Ömer Faruk Bayrak	Independent Learning	
17.00-17.50	Independent Learning	Lecture Histology of the Respiratory Systems; Respiratory Part Alev Cumbul	Independent Learning	Lecture Patterns of Single Gene Inheritance Ömer Faruk Bayrak	Independent Learning	

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COMMITTEE II - RESPIRATORY SYSTEM III. WEEK / 30 Nov - 4 Dec 2020

	Monday 30-Nov-2020	Tuesday 01-Dec-2020	Wednesday 02-Dec-2020	Thursday 03-Dec-2020	Friday 04-Dec-2020	
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learn	ning
10.00- 10.50	Independent Learning	Laboratory / Anatomy Larynx Aikaterini Panteli	Independent Learning	Laboratory / Anatomy Lower Respiratory Aikaterini Panteli	Signs K & k R kmir smir	SGS IÇ
11:00-11:50	Lecture Pulmonary Ventilation Bayram Yılmaz	Lecture Principle of Surface Tension & Alveolar Mechanic Akif Maharramov	Lecture Development of the Respiratory Systems & Anomalies Aylin Yaba Uçar	Laboratory / Microbiology Microscopy Methods in Diagnostic Microbiology Instructors	ICP/CSL: Vital Signs Cem Şİmşek & Serdar Özdemir Group B Group A SRPC SGS Deniz Kıraç	Group C, D
12:00-12:50	Lecture Pulmonary Ventilation Bayram Yılmaz	Lecture Principle of Surface Tension & Alveolar Mechanic Akif Maharramov	Lecture Development of the Respiratory Systems & Anomalies Aylin Yaba Uçar	Independent Learning	ICP.	.
13.00- 13.50			Lunch Break			
14.00- 14.50	Lecture Mycobacteria Microbiology Lecturer	Lecture Pulmonary Circulation, Pulmonary Edema, Pleural Fluid Bayram Yılmaz	Lecture The Trachea <i>Aikaterini Panteli</i>	Lecture Diffusion of Blood Gases Bayram Yılmaz	Lecture Non-fermenters Microbiology Lecturer	
15.00- 15.50	Lecture Aerobic Actinomycetes Microbiology Lecturer	Lecture Pulmonary Circulation, Pulmonary Edema, Pleural Fluid Bayram Yılmaz	Lecture The Lungs <i>Aikaterini Panteli</i>	Lecture Diffusion of Blood Gases Bayram Yılmaz	Lecture Injury by Endogenous Substance Aydın Sav	
	Lecture		Lecture	Lecture	Lecture The Human Genome and Chromosomal Basis of Heredity Ömer Faruk Bayrak	
16.00- 16.50	Developmental Genetics and Birth Defects Ömer Faruk Bayrak	Independent Learning	Pulmonary Innate Immune Response Gülderen Yanıkkaya Demirel	Cancer Genetics and Genomics Ömer Faruk Bayrak	Chromosomal Basis of He	eredity

COMMITTEE II - RESPIRATORY SYSTEM IV. WEEK / 7 - 11 Dec 2020

	Monday 07-Dec-2020	Tuesday 08-Dec-2020	Wednesday 09-Dec-2020	Thursday 10-Dec-2020	Friday 11-Dec-2020	
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning	
10.00- 10.50	Independent Learning	Laboratory/ Anatomy Pleura and Diaphragm Aikaterini Panteli	Independent Learning	Lecture Pulmonary Adaptive Immune Response <i>Gülderen Yanıkkaya Demirel</i>	nc sgs raç sal Signs ek & femir A	
11.00- 11.50	Lecture Transport of Blood Gases Bayram Yılmaz	Lecture Regulation of Respiration Burcu Gemici Başol	Lecture Gram Negative Cocci Microbiology Lecturer	Lecture Pulmonary Adaptive Immune Response <i>Gülderen Yanıkkaya Demirel</i>	よ	
12.00- 12.50	Lecture Transport of Blood Gases Bayram Yılmaz	Lecture Regulation of Respiration Burcu Gemici Başol	Lecture Gram Negative Cocci Microbiology Lecturer	Laboratory / Microbiology Culture Methods in Diagnostic Microbiology Microbiology Instructors	Group B SF Deniz I ICP/CSL: \ Cem Sin Serdar Ö Group C	
13.00- 13.50			Lunch Br	eak		
14.00- 14.50	Lecture Pleura and Diaphragm <i>Aikaterini Panteli</i>	Lecture Enterobacteriaceae <i>Microbiology Lecturer</i>	Lecture Molecular Basis of Genetic Diseases Ömer Faruk Bayrak	Laboratory / Physiology Spirometry	Lecture Other Gram Negative Bacilli-I Microbiology Lecturer	
15.00- 15.50	Lecture Pleura and Diaphragm <i>Aikaterini Panteli</i>	Lecture Enterobacteriaceae <i>Microbiology Lecturer</i>	Lecture Tools of Human Molecular Genetics Ömer Faruk Bayrak	Bayram Yılmaz & Mehtap Kaçar & Burcu Gemici Başol	Other Gram Negative Bacilli-II Microbiology Lecturer	
16.00- 16.50	Lecture Review of the Respiratory System Aikaterini Panteli	Laboratory / Histology&Embryology Review Session	Lecture Sports Physiology <i>Mehtap Kaçar</i>	Independent Learning	Lecture Injury by Toxic Substances and Pneumoconiosis Aydın Sav	
17.00-17.50	Independent Learning	Alev Cumbul & Aylin Yaba Uçar	Lecture Sports Physiology <i>Mehtap Kaçar</i>	Independent Learning	Lecture Injury by Toxic Substances and Pneumoconiosis Aydın Sav	

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

COMMITTEE II - RESPIRATORY SYSTEM V. WEEK / 14 - 18 Dec 2020

	Monday	Tuesday	WEEK / 14 – 18 Dec 2020 Wednesday	Thursday	Friday
	14-Dec-2020	15-Dec-2020	16-Dec-2020	17-Dec-2020	18-Dec-2020
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50	Independent Learning	Independent Learning	Lecture Infection and Immunity Gülderen Yanıkkaya Demire	Independent Learning	Independent Learning
11.00- 11.50	Lecture Anaerobic Bacteria Microbiology Lecturer	Lecture Mycoplasma, Chlamydia, Rickettsia Microbiology Lecturer	Lecture Introduction to Pathophysiology of Respiratory System Mehtap Kaçar	Laboratory / Microbiology Identification Methods in Diagnostic Microbiology Microbiology Instructors	Lecture Genetics of Complex Diseases Ömer Faruk Bayrak
12.00- 12.50	Lecture Anaerobic Bacteria Microbiology Lecturer	Lecture Mycoplasma, Chlamydia, Rickettsia Microbiology Lecturer	Lecture Introduction to Pathophysiology of Respiratory System Mehtap Kaçar	Laboratory / Microbiology Microscopy and Culture Methods in Diagnostic Mycobacteria Microbiology Instructors	Lecture Genetics of Complex Diseases Ömer Faruk Bayrak
13.00- 13.50			Lunch Break		
14.00- 14.50	Lecture Aviation, High-Altitude and Space Physiology Bayram Yılmaz	Laboratory / Physiology Exercise and Metabolism	Lecture Miscallaneous Bacteria Microbiology Lecturer	Introduction To Elective Courses	Lecture Modeling in Circulatory & Respiratory Systems Akif Maharramov
15.00- 15.50	Lecture Physiology of Deep-Sea Diving and Hyperbaric Conditions Bayram Yılmaz	Bayram Yılmaz & Mehtap Kaçar & Burcu Gemici Başol	Lecture Diagnostic Methods in Bacteriology Microbiology Lecturer	Elective Course Lecturers	Lecture Modeling in Circulatory & Respiratory Systems <i>Akif Maharramov</i>
16.00- 16.50	Lecture Physiology of Deep-Sea Diving and Hyperbaric Conditions-2 Bayram Yılmaz	Lecture Gram Positive Aerobic Bacilli Microbiology Lecturer	Lecture Treatment of Genetic Disease - Introduction to Gene Therapy Ömer Faruk Bayrak	Independent Learning	Independent Learning
17.00-17.50	Independent Learning	Lecture Other Gram Negative Bacilli-II Microbiology Lecturer	Lecture Treatment of Genetic Disease - Introduction to Gene Therapy Ömer Faruk Bayrak	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 VI. WEEK / 21 – 25 Dec 2020

			VI. WLLK / Z1 - 23 Dec 202	•	
	Monday 21-Dec-2020	Tuesday 22-Dec-2020	Wednesday 23-Dec-2020	Thursday 24-Dec-2020	Friday 25-Dec-2020
09.00- 09.50					Independent Learning
10.00- 10.50	Assessment Session (Anatomy, Physiology and Independent Learning		Assessment Seesien		
11.00- 11.50	50 Histology&Embryology	Assessment Session Committee II			
12.00- 12.50			Practical Exams)		(MCQ)
13.00- 13.50			Lunch Break	C	
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 Secretary of the Committee
15.00- 15.50 16.00- 16.50					Independent Learning
17.00- 17.50					

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM

DISTRIBUTION of LECTURE HOURS December 28, 2020- February 26, 2021

COMMITTEE DURATION: 7 WEEKS

MED 203	BASIC MEDICAL SCIENCES II	THEORETICAL	PRACTICAL	TOTAL
	DISCIPLINE			
	ANATOMY	20	1GX7H	27
	BIOCHEMISTRY	32	1GX2H	34
	BIOPHYSICS	10	0	10
	BIOSTATISTICS	4	0	4
	HISTOLOGY & EMBRYOLOGY	12	1GX4H	16
	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	4Grx3H	3
	TOTAL	119	19	138
	INDEPENDENT LEARNING HOURS			107

OTHER COURSES

MED 202	INTRODUCTION to CLINICAL PRACTICE- II	4 GrX1 + 1 GrX1	4 GrX2 + 1 GrX2	5/3	
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	Head	İnci ÖZDEN, Ph.D. Prof.	
Coordination	Secretary	Müge KOPUZ ALVAREZ NOVAL, PhD Assist. Prof	
Committee	Member	Mehtap KAÇAR, MD. Ph.D. Assoc. Prof.	
	Member	Aikaterini PANTELİ, MD, Lecturer	

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM LECTURERS

MED 2	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				
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 Assist. Prof.				
BIOSTATISTICS	E. Çiğdem ALTUNOK, PhD Assist. Prof.				
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof.				
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD PhD Prof.				
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof. Soner DOĞAN, PhD Assoc. Prof. Deniz KIRAÇ, PhD Assoc. Prof. Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof.				
MEDICAL MICROBIOLOGY	Çağatay ACUNER, MD Assoc. Prof. Aynur EREN, MD Prof. Pınar ÇIRAGİL, MD Prof.				
PATHOLOGY	Aydın SAV MD Prof.				
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR, MD. PhD Assoc. Prof. Burcu GEMİCİ BAŞOL, PhD Assoc. Prof.				
SCIENTIFIC RESEARCH AND PROJECT COURSE-II	Bayram YILMAZ, PhD. Prof. Deniz KIRAÇ, PhD. Assoc. Prof.				

OTHER COURSES

OTTLER GOORGEO					
MED 202 INTRODUCTION TO CLINICAL PRACTICE II					
DISCIPLINE	LECTURERS				
CLINICAL SKILLS LAB	Özlem TANRIÖVER, MD MPH. Prof. A. Arzu AKALIN, MD Assist. Prof. Barış Murat AYVACI, MD Assist. Prof. Eren GÖKDAĞ, MD. Fatma Tuğba COSKUN, 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 organism, using concepts of internal energy, work, temperature, entropy, free energy and enthalpy.
- 2.0. describe gastrointestinal system biology and basics of proper alimentation.
- 4.0. For oral cavity, temporomandibular joint, chewing muscles, pharynx, esophagus, stomach, small intestine, large intestine, liver, gall bladder and tracts, pancreas, spleen and peritoneum;
 - 4.1. describe the anatomy,
 - 4.2. associate with adjacent tissue and organs,
 - 4.3. 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 Gastointestinal tract
 - 5.5. explain the histological properties of Lower Gastointestinal tract
 - 5.5. explain the histological properties of gland associated with Gastointestinal 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 count significance tests in biostatistics.
- 17.0 count biostatistical sampling methods.
- 18.0 choose significance tests according to the properties of biostatistical data.
- 19.0 explain case scenario related basic medical science topics in a clinical context.
- 20.0 explain inflammatory processes, termination pathways, effects on tissues and mechanisms for inducing diseases.

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM COMMITTEE ASSESSMENT MATRIX

LEARNING	DISCIPLINE	LECTURER/	DISTRIBUTION of MCQs and SbMCQ			
OBJECTIVES		INSTRUCTOR	CE	FE	IE	TOTAL
3.04.0.	ANATOMY	Dr. M.Elgazzar	17	7	7	31
6.0, 8.011.0., 19.0	BIOCHEMISTRY	Dr. İ. Özden	27	11	11	49
1.0., 19.0	BIOPHYSICS	Dr. A. Maharramov	8	3	3	14
16.0-18.0	BIOSTATISTICS	Dr. E.Ç. Altunok	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. Ç. Acuner Dr. A. Eren Dr. P Çıragil	8	3	3	14
20.	PATHOLOGY	Dr. A. Sav	5	2	2	9
7.0., 19.0.	PHYSIOLOGY	Dr. B. Yilmaz Dr. M. Kaçar Dr. B. Gemici Başol	14	6	6	26
19	PBL	_	1	0	0	1
		TOTAL	100	40/200#	40/200#	180
		DISTRUBITION of L	AD AC	SESSME	NT DOIN	ITC
LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION OF L	LPE	SESSIVIE	INT POI	V13
3.0-4.0	ANATOMY		60			
6.0, 8.011.0.	BIOCHEMISTRY	5				
5.0.	HISTOLOGY & EMBRYOLOGY	20				
12.0.	MICROBIOLOGY	5				
7.0.	PHYSIOLOGY		10			
	TOTAL		100			

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

Total value of LPE is equal to 100 points

Committee Score (CS) 95% of [90% CE (MCQ) + 10% (LPE)] + 5% of PBL-P <u>Abbreviations:</u>

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 / 28 - 31 Dec 2020

	Monday 28-Dec-2020	Tuesday 29-Dec-2020	Wednesday 30-Dec-2020	Thursday 31-Dec-2020	Friday 01-Jan-2021
	28-Dec-2020	Lecture	SU-Dec-2020 Lecture	31-Dec-2020	01-Jan-2021
09.00- 09.50		Digestion and Absorption of Lipids Inci Özden	Transport of Lipids in Plasma Inci Özden	Independent Learning	
10.00-10.50	PBL	Lecture Digestion and Absorption of Lipids Inci Özden	Lecture Transport of Lipids in Plasma <i>İnci Özden</i>	Independent Learning	
11.00-11.50		Lecture Histology of Upper Gastrointestinal Tract; Oral Cavity Alev Cumbul	Lecture Histology of Alimentary Canal; Esophagus, Stomach Alev Cumbul	Independent Learning	NEW YEAR
12.00-12.50	Introduction to Committee III Secretary of Committee	Lecture Histology of Upper Gastrointestinal Tract; Tongue, Salivary Gland Alev Cumbul	Lecture Energy Transformation & Distribution in Bio-molecular Systems Akif Maharramov	Independent Learning	
13.00- 13.50			Lunch Break		
14.00- 14.50	Lecture GIT Development (Embryology) Mohammed Elgazzar	Lecture Oral Cavity Mohammed Elgazzar	Lecture Gastrointestinal Functions Burcu Gemici Başol	Independent Learning	
15.00- 15.50	Lecture GIT Development (Embryology) Mohammed Elgazzar	Lecture Oral Cavity Mohammed Elgazzar	Lecture Gastrointestinal Functions Burcu Gemici Başol	Independent Learning	NEW YEAR
16.00- 16.50	Independent Learning	Laboratory / Anatomy Oral Cavity Mohammed Elgazzar	Independent Learning	Independent Learning	
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM II. WEEK /04 – 08 Jan 2021

	Monday	Tuesday	Wednesday	Thursday	Friday	
	04-Jan-2021	05-Jan-2021	06-Jan-2021	07-Jan-2021	08-Jan-2021	
09.00- 09.50		Lecture Cholesterol Metabolism İnci Özden	Lecture Propulsion and Mixing Movements in the GI Tract Burcu Gemici Başol	Lecture Lipogenesis, Triacylglycerol Synthesis Inci Özden	Lecture Lipolysis <i>Înci</i> Özden	
10.00- 10.50	PBL Session	Lecture Cholesterol Metabolism İnci Özden	Lecture Propulsion and Mixing Movements in the GI Tract Burcu Gemici Başol	Lecture Lipogenesis, Triacylglycerol Synthesis <i>İnci Özden</i>	Lecture Lipolysis <i>İnci Özden</i>	
11.00- 11.50		Lecture Gland Associated with the Digestive System; Liver Aylin Yaba Uçar	Lecture Bio-thermodynamics, Laws of Thermodynamics Akif Maharramov	Lecture Introduction to Parasitology Microbiology Lecturer	Lecture Protozoa-I Microbiology Lecturer	
12.00- 12.50	Independent Learning	Lecture Gland Associated with the Digestive System; Gall Bladder Aylin Yaba Uçar	Lecture The Zeroth and First Laws of Thermodynamics Akif Maharramov	Lecture Lecture Parasitic Pathogenesis Protozo Microbiology Lecturer Microbiology		
13.00- 13.50			Lunch Break	(
14.00- 14.50	Lecture Esophagus & Stomach Mohammed Elgazzar	Lecture Duodenum Mohammed Elgazzar	Lecture Small Intestine Mohammed Elgazzar	Lecture Digestion and Absorbtion in the Gastrointestinal Tract Burcu Gemici Başol	ICP LECTURE CSL: Patient-Doctor Communication Skills Using SPs	
15.00- 15.50	Lecture Esophagus & Stomach Mohammed Elgazzar	Laboratory / Anatomy Duodenum Mohammed Elgazzar	Lecture Small Intestine Mohammed Elgazzar	Lecture Digestion and Absorbtion in the Gastrointestinal Tract Burcu Gemici Başol	octor Skills er / v Akalın & roup A	
16.00- 16.50	Laboratory / Anatomy Esophagus & Stomach Mohammed Elgazzar	Independent Learning	Independent Learning	Lecture Histology of Alimentary Canal; Small Intestine Aylin Yaba Uçar	CSL: Patient-Doctor Communication Skills Using SPs Özlem Tannröver / Güldal İzbırak & Arzu Akalın Serdar Özdemir Group A Group B SRPC SGS Deniz Kiraç	
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Lecture Histology of Alimentary Canal; Large Intestine & Appendix Aylin Yaba Uçar	CSL. Comr Öz Güldəl İz. Serdar L	

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 / 11 - 15 Jan 2021

	Monday	Tuesday	WEEK / 11 = 15 Jan 2021 Wednesday	Thursday	Friday	
	11-Jan-2021	12-Jan-2021	13-Jan-2021	14-Jan-2021	15-Jan-2021	
9.00- 09.50	Lecture Digestion and Absorbtion in the Gastrointestinal Tract Burcu Gemici Başol	Lecture Energetics and Metabolic Rate Bayram Yılmaz	Independent Learning	Lecture Oxidation of Fatty Acids <i>İnci Özden</i>	Lecture Animalia – IV <i>Microbiology Lecturer</i>	
10.00-10.50	Lecture Digestion and Absorbtion in the Gastrointestinal Tract Burcu Gemici Başol	Lecture Energetics and Metabolic Rate <i>Bayram Yılmaz</i>	Lecture The Pancreas and Spleen Mohammed Elgazzar	Lecture Oxidation of Fatty Acids <i>İnci Özden</i>	Lecture Animalia – V <i>Microbiology Lecturer</i>	
11:00-11:50	Lecture Animalia – I Microbiology Lecturer	Lecture Gland Associated with the Digestive System; Pancreas Aylin Yaba Uçar	Laboratory / Anatomy Pancreas and Spleen Mohammed Elgazzar	Laboratory / Biochemistry Lipid Determination in Blood	Lecture Secretory Functions of the Alimentary Tract Burcu Gemici Başol	
12:00-12:50	Lecture Animalia – II Microbiology Lecturer	Lecture Gland Associated with the Digestive System; APUD System Aylin Yaba Uçar	Lecture Energy Transformation & Distribution in Bio-molecular Systems Akif Maharramov	Jale Çoban & Müge Kopuz Alvarez Noval	Lecture Secretory Functions of the Alimentary Tract Burcu Gemici Başol	
13.00-13.50			Lunch Break			
14.00-14.50	Lecture Large Intestine <i>Mohammed Elgazzar</i>	Lecture Liver <i>Mohammed Elgazzar</i>	Lecture Applications of the First Law to Isochoric, Isobaric Processes, Enthalpy Akif Maharramov	Lecture Development of Gastrointestinal Tract; Alimentary Canal Alev Cumbul	-Doctor on Skills Ps <i>över /</i> rzu Akalın & Group B oc SGS raç	
15.00- 15.50	Lecture Large Intestine Mohammed Elgazzar	Lecture Biliary System <i>Mohammed Elgazzar</i>	Lecture Applications of the First Law to Isochoric, Isobaric Processes, Enthalpy Akif Maharramov	Lecture Development of Gastrointestinal Tract; Glands Alev Cumbul	CSL: Patient-Doctor Communication Skills Using SPs ÖzlemTannöver/ Güldal İzbırak & Arzu Akalın Serdar Özdemir Group B Group A SRPC SGS Deniz Kiraç	
16.00- 16.50	Laboratory / Anatomy Small and Large Intestine Mohammed Elgazzar	Laboratory / Anatomy Liver and Biliary System Mohammed Elgazzar	Independent Learning	Independent Learning	Cor Cor Guldal Serdi	
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning	

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

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM IV. WEEK / 18 – 22 Jan 2021

	Monday	Tuesday	Wednesday	Thursday	Friday
	18-Jan-2021	19-Jan-2021	20-Jan-2021	21-Jan-2021	22-Jan-2021
09.00- 09.50	Lecture Ketone Bodies <i>Înci</i> Özden	Lecture Test Hypotheses and Significance-Chi- Square Test E. Çiğdem Altunok	Lecture Digestion and Absorption of Proteins İnci Özden	Laboratory / Histology & Embryology	Lecture Physiology of Gastrointestinal Disorders Mehtap Kaçar
10.00- 10.50	Lecture Ketone Bodies <i>İnci Özden</i>	Lecture Test Hypotheses and Significance-Chi- Square Test E. Çiğdem Altunok	Lecture Digestion and Absorption of Proteins Inci Özden	Histology of GIS I Alev Cumbul & Aylin Yaba Uçar	Lecture Physiology of Gastrointestinal Disorders Mehtap Kaçar
11.00- 11.50	Lecture Regulation of Feeding and Obesity Bayram Yılmaz	Lecture Body Temperature and Its Regulation Bayram Yılmaz	Lecture Inflammation Aydın Sav	Lecture Metabolisms of Individual Amino Acids <i>İnci Özden</i>	Lecture Urea Cycle <i>İnci</i> Özden
12.00- 12.50	Lecture Regulation of Feeding and Obesity Bayram Yılmaz	Lecture Body Temperature and Its Regulation Bayram Yılmaz	Lecture Wound Healing Aydın Sav	Lecture Metabolisms of Individual Amino Acids <i>İnci Özden</i>	Lecture Urea Cycle <i>İnci Özden</i>
13.00-13.50	-	-	Lunch Brea	ak	
14.00- 14.50	Lecture Peritoneal and Abdominal Cavity Mohammed Elgazzar	Lecture Interrelationship of Biology of Major Organs Soner Doğan	Lecture Liver as organ Bayram Yılmaz	Lecture Entropy, Free Energy, Boltzmann Distribution Akif Maharramov	octor Skills er / 1 Akalın & nir SGS
15.00- 15.50	Lecture Abdominal wall topographic anatomy Mohammed Elgazzar	Lecture Interrelationship of Biology of Major Organs Soner Doğan	Lecture Congenital Anaomalies of Gastrointestinal Trac Alev Cumbul	Lecture The Second Law of Thermodynamics Akif Maharramov	CSL: Patient-Doctor Communication Skills Using SPs Özlem Tanriöver / Güldal İzbırak & Arzu Akalın Serdar Özdemir Group C Group D SRPC SGS Deniz Kiraç
16.00- 16.50	Laboratory / Anatomy Peritoneal and Abdominal Cavity	Independent Learning	Independent Learning	Independent Learning	Said
17.00-17.50	Mohammed Elgazzar	Independent Learning	Independent Learning	Independent Learning	Independent Learning

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

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM V. WEEK / 25 – 29 Jan 2021

	Monday 25-Jan-2021	Tuesday 26-Jan-2021	Wednesday 27-Jan-2021	Thursday 28-Jan-2021	Friday 29-Jan-2021	
	ZO-Jan-ZUZT	26-Jan-2021	27-Jan-2021 Lecture	28-Jan-2021	29-Jan-2021	
09.00- 09.50	Independent Learning	Lecture Citric Acid Cycle <i>İnci</i> Özden	Metabolic Interrelationships and Provision of Tissue Fuels inci Özden	Laboratory / Histology& Embryology	Lecture Overview of Metabolism <i>İnci Özden</i>	
10.00-10.50	Lecture Metabolic Interrelationships and Provision of Tissue Fuels inci Özden	Citric Acid Cycle	Lecture Metabolic Interrelationships and Provision of Tissue Fuels İnci Özden	Histology of Gastrointestinal System II <i>Alev Cumbul & Aylin Yaba Uçar</i>	Lecture Overview of Metabolism İnci Özden	
11:00-11:50	Lecture Metabolic Interrelationships and Provision of Tissue Fuels inci Özden	Interrelationship of Biology of	Lecture Repetition all of the Material Akif Maharramov	Laboratory / Physiology Digestive System Bayram Yılmaz & Mehtap Kaçar &	Lecture Review of the Digestive System Erdem Söztutar	
12:00-12:50	Lecture Animalia – III Microbiology Lecturer	Lecture Interrelationship of Biology of Major Organs Soner Doğan	Lecture Repetition all of the Material Akif Maharramov	Burcu Gemici Başol	Lecture Review of the Digestive System Erdem Söztutar	
13.00- 13.50	Lunch Break					
14.00- 14.50	Lecture Nerves and vasculature Mohammed Elgazzar	Lecture Diagnostic Methods in Parasitology Microbiology Lecturer	Lecture Nutrigenomics Soner Doğan	Independent Learning	ICP Patient-Doctor Communication Skills Using SPs Özlem Tanriöver / Güldal İzbrak & Arzu Akalın & Serdar Özdemir Group C SRPC SGS Deniz Kiraç	
15.00- 15.50	Lecture Nerves and vasculature Mohammed Elgazzar	Laboratory / Microbiology Parasitology Microbiology Instructors	Lecture Nutrigenomics Soner Doğan	Independent Learning	Patient-Doctol Communication S Communication S Color Service Guidal Izbirak & A Akalın & Akalın & Akalın & Caroup C Group C SRPC S Deniz Kiraç Group A, B II	
16.00- 16.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Guite S	
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning	

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

MIDTERM BREAK: 1 FEBRUARY – 14 FEBRUARY, 2021

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM VI. WEEK / 15 – 19 Feb 2021

	Monday 15-Feb-2021	Tuesday 16-Feb-2021	WEEK / 15 - 19 Feb 2021 Wednesday 17-Feb-2021	Thursday 18-Feb-2021	Friday 19-Feb-2021
09.00- 09.50	Lecture Purine and Pyrimidine Metabolism <i>Inci Özden</i>	Lecture Acute Inflammation Aydın Sav	Lecture Chronic Inflammation Aydın Sav	Independent Learning	Independent Learning
10.00- 10.50	Lecture Purine and Pyrimidine Metabolism <i>Inci Özden</i>	Lecture Acute Inflammation Aydın Sav	Lecture Chronic Inflammation Aydın Sav	Independent Learning	Independent Learning
11:00-11:50	Lecture Test Hypotheses and Significance- Z-Test Çiğdem Altunok	Lecture Xenobiotic Metabolism İnci Özden	Lecture Mucosal Immunity Gülderen Yanıkkaya Demirel	Laboratory / Histology& Embryology	Independent Learning
12:00-12:50	Lecture Test Hypotheses and Significance- Z-Test Çiğdem Altunok	Lecture Xenobiotic Metabolism İnci Özden	Lecture Mucosal Immunity Gülderen Yanıkkaya Demirel	Review Session Alev Cumbul & Aylin Yaba Uçar	Independent Learning
13.00- 13.50	, ,		Lunch Break		
14.00- 14.50	Independent Learning	Independent Learning	Independent Learning	ICP LUCTURE Nasogastric Tube Administration	Elective courses
15.00- 15.50	Independent Learning	Independent Learning	Independent Learning	ICP CSL: Nasogastric Tube Administration ÖzlemTanriöver & ArzuAkalın Barış M. Ayvacı Group C Group D SRPC SGS Deniz Kiraç	
16.00- 16.50	Independent Learning	Independent Learning	Independent Learning	ICP CSL: Nasogastr Tube Administrat ÖzlemTanriöver Arzu Akalın Barış M. Ayvac Group C Group C Group C Group Ay B IL	
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	CS Tube Öz/ Öz/ Grou	

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

COMMITTEE III - GASTROINTESTINAL SYSTEM and METABOLISM VII. WEEK / 22 – 26 Feb 2021

	Monday 22-Feb-2021	Tuesday 23-Feb-2021	Wednesday 24-Feb-2021	Thursday 25-Feb-2021	Friday 26-Feb-2021
09.00- 09.50					Independent Learning
10.00- 10.50					
11.00- 11.50	Assessment Session (Physiology and Histology&Embryology Practical Exams)	Independent Learning	Independent Learning	Independent Learning	Assessment Session Committee III (MCQ)
12.00- 12.50					Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee III Program Secretary of the Committee
13.00- 13.50			Lunch Break		
14.00- 14.50	Anatomy Practical Exam	Independent Learning	Independent Learning	Independent Learning	Elective Courses
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.