YEDİTEPE UNIVERSITY

FACULTY of MEDICINE

PHASE II

ACADEMIC PROGRAM BOOK

2016 – 2017

Student's

Name :……
Number :……

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE

PHASE II

Contents

YEDİTEPE UNIVERSITY FACULTY OF MEDICINE
AIM OF MEDICAL EDUCATION PROGRAM

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

AIM

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

- **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

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 2016 – 2017)

Mehtap KAÇAR, MD, Ph.D, Assoc. Prof. (Coordinator)
Deniz KIRAÇ, Ph.D, Assist. Prof. (Co-Coordinator)
Alev CUMBUL, Ph.D, Assist. Prof. (Co-Coordinator)

ICP-II COORDINATION COMMITTEE

Özlem TANRIÖVER, MD, Assoc. Prof. (Coordinator)
A.Arzu AKALIN, MD, Assist. 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, Endocrine and Urogenital System, Nervous System, Tissue Damage and Neoplasia, Introduction to Clinical Practice- II (ICP-II), Scientific Projects-II, Elective Course

Anatomy, Physiology, Biochemistry, Histology & Embryology, Microbiology, Immunology, Biophysics, Medical Biology, Pathology, Pharmacology, Biostatistics, Family Medicine, Medical Education, Elective Course.

AIM and LEARNING OBJECTIVES of PHASE II

AIMS

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 scientific project preparation
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. describe writing, reporting, presentation and submission to publication phases of a research project.
7.0. comprehend the biopsychosocial approach in medicine.

SKILLS

8.0. apply basic interventional and non-interventional processes for taking individual preventive measures, drug application and diagnosis or treatment.
9.0. apply basic laboratory technics and use equipments.

AIM and LEARNING OBJECTIVES of BASIC MEDICAL SCIENCES II (BMS-II) (MED203)

AIMS

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 project preparation

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. 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. describe writing, reporting, presentation and submission to publication phases of a research project

SKILLS

7.0. apply basic laboratory technics and basic medical examination.

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**.**

INTRODUCTION to CLINICAL PRACTICE (ICP MED 202)

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

Credit Facility:

This course has 5 ECTS credits for the first and third year students while it 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.

The faculty participating in the ICP II Program is shown below.

MED 202 INTRODUCTION TO CLINICAL PRACTICE II	
DISCIPLINE	**LECTURERS**
CLINICAL SKILLS LAB	Güldal İZBIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD,MPH Assoc. Prof. A. Arzu AKALIN, MD Assist. Prof. Serdar ÖZDEMİR, MD, Ph.D, Assist. Prof.

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:

a) YÜ Hospital
   1. Outpatient Clinic
   2. Inpatient Clinic
   3. Emergency Department
b) Bağdat Cad. Outpatient Clinic
   1.Outpatient Clinic
   2. Emergency Department
c) 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;

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 :

- Develops 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.

Dates	Group A	Group B	Group C	Group D
06.Jan.2017	Independent Learning	FHC	Yeditepe University Hospital	ICP
13.Jan.2017	Yeditepe University Hospital	Independent Learning	ICP	FHC
03.Feb.2017	FHC	ICP	Independent Learning	Yeditepe University Hospital
10.Feb.2017	ICP	Yeditepe University Hospital	FHC	Independent Learning
24.Feb.2017	Independent Learning	FHC	Bağdat Cad. Outpatient Clinic	ICP
10.March.2017	ICP	Independent Learning	FHC	Bağdat Cad. Outpatient Clinic
17.March.2017	Bağdat Cad. Outpatient Clinic	ICP	Independent Learning	FHC
24.March.2017	FHC	Bağdat Cad. Outpatient Clinic	ICP	Independent Learning

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.
Co-coordinator:
Atakan YEŞİL, MD Assoc. Prof.
Field-coordinator:
Hülya AKAN, MD Assoc. Prof.
ICP II Coordinator and Co-coordinator:
Özlem TANRIÖVER, MD, MPH Assoc. Prof.
A. Arzu AKALIN, MD Assist. Prof.
Responsible Faculty on behalf of the curriculum committee:
Serdar ÖZDEMİR, MD, Ph.D, Assist. Prof.

SCIENTIFIC PROJECTS – II

The purpose of Scientific Projects class is to teach the medical students how to write and run a scientific project. Throughout the year, each Phase Two student is expected to prepare a scientific project proposal. Students are free to choose their research area and advisor for their prospective research project. Students who wish to apply for a "TUBITAK 2209-A National Grant Program for University Students" has to send in their proposals before February 2017, the rest should hand in their proposals before the end of March. All projects will be presented as posters at Scientific Day of Yeditepe School of Medicine, during May, 2017. Scientific Projects course has 4% contribution to Term Score (TS).

SCIENTIFIC PROJECTS ASSESSMENT TABLE

CRITERIA	**Unsatisfactory**	**Below Expectations**	**Meets Expectations**	**Above Expectations**	**Clearly Outstanding**	**Not Addressed / Observed**
Is the question/ problem presented clearly?	1	2	3	4	5	0
Creativity/originality of the Project	1	2	3	4	5	0
Is set up of the Project suitable to obtain aims?	1	2	3	4	5	0
Presentation of aims in an easy to understand format	1	2	3	4	5	0
Review of project proposal in light of literature	1	2	3	4	5	0
Proposal presentation in correct format	1	2	3	4	5	0
Does proposal explain the project's significance and contributions well?	1	2	3	4	5	0
Project calendar presentation	1	2	3	4	5	0
TOTAL POINTS	**40 x 2,5=100 pts (if all criteria has 5 points)**					

ELECTIVE COURSES

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

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

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

Code	Subject		
MED 614	**Business Etiquette and Personal Image**		
Goals	Participants will recognize how to create personal image for successful business life and how to behave in social platforms. The aim of this course is to equip the students with skills in creating personal image for successful business life and with appropriate behavior in social platforms.		
Content	Business Etiquette creation techniques and personal image methodologies with case studies.		
Course Learning Outcomes	At the end of this course, the student should be able to • create personal brand for successful business life. • use behavioral codes for business etiquette.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	25
	Assignments (Homework)	1	25
	Evaluation of Group Presentations	1	5
	Final Exam	1	45
	Total		**100**

Code	Subject		
MED 615	**Futurism and Idea Creation**		
Goals	The aim of this course is to convey to the students knowledge on innovative approaches for visionary life, describe the philosophy of futurism.		
Content	Strategies for futurism and applied case studies for personal innovation.		
Course Learning Outcomes	At the end of this course, the student should be able to • use futuristic strategies to create innovative approaches. • use innovative and creative thinking techniques in professional life.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	25
	Assignments (Homework)	1	25
	Evaluation of Group Presentations	1	5
	Final Exam	1	45
	Total		**100**

Code	Subject		
MED 616	**Medical Management, Leadership and Coaching**		
Goals	The aim of this course is to develop leadership skills to manage a team and organizational skills in the case of emergency and lack of crew. Moreover, empathy skills will be developed to create better relationship with the patients, coworkers and customers.		
Content	Leadership Styles, Skills needed in Med, Strategies for New Generation Leadership, Empathy Techniques, Problem Solving with Empathy, and Conciliation with Empathy.		
Course Learning Outcomes	At the end of this course, the student should be able to • develop leadership skills to manage teams. • use empathy techniques for conciliation with their patients and co-workers.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	25
	Assignments (Homework)	1	25
	Evaluation of Group Presentations	1	5
	Final Exam	1	45
	Total		**100**

Code	Subject		
MED 617	**Stress and Time Management**		
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.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	25
	Research & Observation Homework	1	25
	Evaluation of Group Presentations	1	5
	Final Exam	1	45
	Total	**4**	**100**

Code	Subject		
MED 618	**Medicine & Pharmaceutical Industry**		
Goals	The aim of this course is to introduce the scope of the pharmaceutical industry with relevance to laws/regulations governing the operations, research and development, drug promotion and pharmacovigilance. In this course, the students will have face-to-face negotiations with pharmaceutical industry executives and exchange opinions about career opportunities about the pharmaceutical industry.		
Content	The course consists of lectures, case studies, literature workshops and face-to-face negotiations with the pharmaceutical industry executives.		
Course Learning Outcomes	At the end of this course, the student should be able to • explain the scope of the pharmaceutical industry and career opportunities. • describe laws and regulations governing the operations in the pharmaceutical industry. • explain research and development activities in the pharmaceutical industry. • define WHO Model List of Essential Medicines (EML) & WHO Orphan Medicines Programme. • explain the importance of biopharmaceutical companies &how biopharmaceuticals are produced. • define pharmacovigilance and describe safety monitoring of medicinal products. • explain ethical criteria for medicinal drug promotion.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	30
	Assignments (Homework)	1	40
	Final Exam	1	30
	Total		**100**

Code	Subject		
MED 619	**Storytelling Techniques**		
Goals	This course aims to equip students with storytelling techniques to make smart decisions, communicate better, think creatively and use this modern technique to manage their professional relations.		
Content	Strategies for storytelling techniques and applications.		
Course Learning Outcomes	At the end of this course, the student should be able to • use storytelling techniques in workplace to make decisions, communicate better and think creatively.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	25
	Assignments (Homework)	1	25
	Evaluation of Group Presentations	1	5
	Final Exam	1	45
	Total		100

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

Code	Subject		
MED 621	**Epidemiological Research and Evidence Based Medicine**		
Goals	The aim is to provide understanding of epidemiological language and terminology by reading, examining and discussing various types of epidemiological research papers and to develop the desire and enthusiasm for epidemiological studies.		
Content	Different sessions for each type of epidemiological research will be held. The selected research types are case report, cross-sectional, case- control, cohort study, and randomized controlled trial.		
Course Learning Outcomes	At the end of this course, the student should be able to • comprehend various types of epidemiological research. • explain basic epidemiological terminology.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	25
	Assignments (Homework)	1	10
	Evaluation of Group Presentations	1	20
	Final Exam	1	45
	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 Program (YUFM/UG-ME), Work Descriptions and Introduction of Committees Members,
- Directives on YUFM/UG-ME,
- YUFM/UG-ME Program Outcomes
- Learning Objectives of the Phase
- Academic Program of the Phase
- Teaching and Learning Methods
- Learning Environments and Sources/Resources
- Attendance
- Elective Courses
- Assessment Procedure
- Grade Point Average, Cumulative Grade Point Average (GPA, cGPA) Calculation
- Pass/Fail Conditions
- Feedback of the Previous Year and Program Improvements
- Social Programs and Facilities

In the second type, Committee Coordinator will present brief information on the following topics:
- Learning Objectives of the Committee
- Academic Program of the Committee
- Teaching and Learning Methods
- Learning Environments and Sources/Resources, References
- Attendance
- Assessment Methods and Question Distribution Table
- Committee Score Calculation Method
- Pass/Fail Conditions
- Feedback of the Previous Year and Program Improvements
- Social Programs and Facilities

Committee Evaluation Session

Aim of the Session:

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

Objectives of the Program Evaluation Session are to;

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

Process:

The total duration of the session is 90 minutes and the session consists of two parts. The first part (30 minutes) is dedicated to oral feedback by the students. All of the oral feedback will be recorded and reported by the committee coordination team. In the second part (60 minutes) committee exam questions will be reviewed and discussed by students and faculty.

Rules of the Committee Evaluation Session :

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

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).

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

- Exams:
  - Committee Exam (CE)
  - Mid-term Exam (MTE)
  - Final Exam (FE)
  - Incomplete Exam (ICE)
  - Make-up Exams (MUE)
- Scores*:
  - Committee Score (CS)
  - Committees Mean Score (CMS)
  - Introduction to Clinical Practice Score (ICPS)
    - Early Clinical Exposure Score (ECES)
  - Scientific Project Score (SPS)
  - Final Exam Score (FES)
  - Incomplete Exam Score (ICES)
  - Term Score (TS)

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

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

Assessment Approaches	**Assessment Methods**	**Question Types / Assessment Tools**	**Exams**	**Derived Scores**
Knowledge-based Assessment	WE: Written Examination	MCQ: Multiple Choice Questions	CE, MTE, FE, ICE	CS, ICPS, FES, ICES
		EMQ: Extended Matching Questions	CE	CS
		MEQ: Modified 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: Project Writing and Presenting Evaluation	PWPE Checklist		SPS
	PA: Portfolio Assessment	PA Checklist		ECES (ICPS)
	DOPS: Direct Observation of Procedural Skills	DOPS Checklist		CS

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

Scores Information (MED 203, MED 202)	
CS	The committee score is based on various question types/numbers and/or assessment tools (MCQ, EMQ, MEQ or Checklists). Please see the committee's assessment matrix table/page for the specifications.
CMS	= Average of CSs
ICPS	= (20% MTE_{ICP}) + (20% ECES) + (60% OSCE)
ECES	= Score information will be announced by Course Coordinator.
SPS	= Score information is shown in below Scientific Projects Assessment Table.
FES	= Final Exam Score
ICES	= Incomplete Exam Score
TS *for students, who are exempted from FE*	= 96% of CMS + 4% of SPS
TS *for students, who are not exempted from FE*	= 96% of (60% of CMS + 40% of FES or ICES) + 4% of SPS

Pass or Fail Calculations of the Courses
Basic Medical Sciences II (MED 203)
Pass; *TS* **≥ *50***
Fail; *FES* **< *50*** *(barrier point), ICES* **< *50*** *(barrier point), or/and TS* **< *50***
The student is exempted from FE, if the CMS is **≥ *75*** *and all CSs are* **≥ *50***
The FE and ICE barrier point is not applied to the students whose all CSs are **≥ *50***
Introduction to Clinical Practise II (MED 202)
Pass; *ICPS* **≥ *50***
Fail; *ICPS* **< *50***

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

Definitions of the Assessment Methods and Question Types

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

EMQ are similar to multiple choice questions but with one key difference, that they test knowledge in a far more applied, in depth, sense. EMQ is based on a single theme, two or more questions and has a long option list.

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 testing 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'.

Portfolio is a collection of work developed as a cumulative 'body of evidence' to demonstrate the student's learning and achievements. It is not an assessment method in its own right, rather a receptacle containing a mixture of materials. Each piece may be assessed individually and/or a mark or grade is awarded to the portfolio as a whole.

DOPS is designed specifically to assess practical skills in a workplace setting. A student is observed and scored via a checklist by an assessor while performing a routine practical procedures (i.e. microscopy).

EXAM RULES

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

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

WEEKLY COURSE SCHEDULE and LOCATIONS

(MED 203, MED 202)

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

COURSE CODES

MED 203	Basic Medical Sciences II (B 310) or Laboratories*
MED 202	Introduction to Clinical Practice I (CSL)** or (B 310)

ELECTIVE COURSE CODES

MED 611	Medical Anthropology
MED 612	Creative Drama
MED 613	Medical Humanities
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 619	Storytelling Techniques
MED 620	Art, Culture and Life Style for HealthCare Members
MED 621	Epidemiology Journal Club

CLASSES

B 310	Ground Floor

* MED 203 Laboratories will be in skill laboratories of related departments
** MED 202 Practical Lectures will be in Clinical Skills Laboratory (CSL) (Ground Floor)

ACADEMIC CALENDAR 2016 – 2017

Basic Medical Sciences II

COMMITTEE I	**CARDIOVASCULAR and RESPIRATORY SYSTEM (9 Weeks)**
Beginning of Committee	: September 5, 2016 Monday
End of Committee	: November 11, 2016 Friday
Committee Exam	: November 08-11, 2016 (Theoretical, Biostastistics and Practical Exams)
Committee Exam Discussion	**: November 11, 2016 Friday**
Commemoration of Atatürk	**: November 10, 2016 Thursday**
Religious Holiday	**: September 12-16, 2016 Monday-Friday**
National Holiday	**: October 28 (afternoon)-29, 2016 Friday-Saturday**

COMMITTEE II	**GASTROINTESTINAL SYSTEM (6 Weeks)**
Beginning of Committee	: November 14, 2016 Monday
End of Committee	: December 23, 2016 Friday
Committee Exam	: December 20-23, 2016 (Theoretical, Biostastistics and Practical Exams)
Committee Exam Discussion	**:** December 23, 2016 Friday

COMMITTEE III	**ENDOCRINE and UROGENITAL SYSTEMS (6 Weeks)**
Beginning of Committee	: December 26, 2016 Monday
End of Committee	: February 17, 2017 Friday
Committee Exam	: February 14-17, 2017 (Theoretical and Practical Exams)
Committee Exam Discussion	**:** February 17, 2017 Friday
New Year	**:** January 1, 2017 Sunday
MIDTERM BREAK	**:** 16 JANUARY – 27 JANUARY, 2017

COMMITTEE IV	**NERVOUS SYSTEM (7 Weeks)**
Beginning of Committee	: February 20, 2017 Monday
End of Committee	: April 07, 2017 Friday
Committee Exam	: April 04-07, 2017 (Theoretical and Practical Exams)
Committee Exam Discussion	**:** April 07, 2017 Friday
Physicians' Day	**: March 14, 2017** Tuesday

COMMITTEE V	**TISSUE DAMAGE and NEOPLASM (7 Weeks)**
Beginning of Committee	: April 10, 2017 Monday
End of Committee	: May 26, 2017 Thursday
Committee Exam	: May 23-26, 2017 (Theoretical and Practical Exams)
Committee Exam Discussion	**:** May 26, 2017 Friday
National Holiday	**: April 23, 2017** Sunday
Labor's Day	**:** May 1, 2017 Monday
National Holiday	**:** May 19, 2017 Friday

Make-up Exam	**:** June 06-07, 2017 Tuesday-Wednesday
Final Exam	**:** June 16, 2017 Friday
Incomplete Exam	**:** July 07, 2017 Friday

ICP II

Midterm Exam	**: February 08, 2017, Wednesday**
Make-up Exam	**: May 22, 2017, Monday**
Final Exam	**: May 29-30, 2017, Monday, Tuesday**
Incomplete Exam	**: July 21, 2017, Friday**

I.Coordination Committee Meeting	**: October, 20, 2016 14:00 Thursday**
II.Coordination Committee Meeting	**: January, 5, 2017 14:00 Thursday (with student participation)**
III.Coordination Committee Meeting	**: May, 10, 2017 16:00 Wednesday (with student participation)**
IV.Coordination Committee Meeting	**: July, 4, 2017 14:00 Tuesday**

RECOMMENDED TEXTBOOKS

NO	DEPARTMENT	TEXTBOOK	AUTHOR	PUBLISHER
1	ANATOMY	Gray's Anatomy for Students	R.L. Drake et al	Churchill Livingstone
		Last's Anatomy: Regional and Applied, 12 th Edition	Chummy S. Sinnatamby	Churchill Livingstone
		A Textbook of Neuroanatomy 1st Edition	Maria Patestas, Leslie P. Gartner	
		Hollinshead's Textbook of Anatomy Fifth Edition	Cornelius Rosse, Penelope Gaddum-Rosse	
2	BIOCHEMISTRY	Textbook of Biochemistry with Clinical Correlations	Thomas M. Devlin	Wiley-Liss Publishing Company
		Harper's Illustrated Biochemistry	Robert K. Murray et al	Mc-Graw-Hill Companies
		Lehninger Principles of Biochemistry	David L. Nelson, Michael M. Cox	W.H. Freeman Publishing Company
3	BIOPHYSICS	Introductory Biophysics: Perspectives on the Living State	J.R. Claycomb, J.P. Tran	Jones & Bartlett Publishers
4	BIOSTATISTICS	Primer of Biostatistics	Stanton Glantz	Mc-Graw-Hill Companies
5	HISTOLOGY	Junqueira's Basic Histology: Text and Atlas 13th Ed.	Anthony Mescher	Mc-Graw-Hill Companies
	EMBRYOLOGY	The Developing Human: Clinically Oriented Embryology, 10th Ed.	Keith L. Moore & T. V. N. Persaud	Saunders
6	IMMUNOLOGY	Basic Immunology: Functions and Disorders of the Immune System 5th edition,.	Elsevier 2016	
7	MEDICAL BIOLOGY	Molecular Biology of the Cell	Bruce Alberts et al	Garland Science
8	MEDICAL ETICS	Clinical Bioethics: Theory and Practice in Medical-Ethical Decision Making	James E. Drane	Sheed & Ward
	MEDICAL HISTORY	Medical History for Students	John R. Green	Thomas
9	MICROBIOLOGY	Medical Microbiology: with Student Consult	P. R. Murray et al	Saunders
10	ORGANIC CHEMISTRY	Organic Chemistry	John E. McMurry	Cengage Learning
11	PATHOLOGY	Robbins Basic Pathology, 9th Edition	By Vinay Kumar, MBBS, MD, FRCPath, Abul K. Abbas, MBBS and Jon Aster, MD ISBN: 978-1-4377-1781-5	
12	PHARMACOLOGY	Goodman & Gilman's The Pharmacological Basis of Therapeutics	L.L. Brunton ed.	McGraw-Hill, New York,
		Basic and Clinical Pharmacology	B. G. Katzung	McGraw-Hill Companies, New York
		Principles of Pharmacology	Golan, D.E et al	Lippincott Williams & Wilkins
13	PHYSIOLOGY	Guyton Physiology	John E. Hall	Saunders
		Human Physiology	Stuart Fox	Mc-Graw-Hill Science

COMMITTEES

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.

COMMITTEE I - CARDIOVASCULAR and RESPIRATORY SYSTEMS
DISTRIBUTION of LECTURE HOURS
September 5 - November 11, 2016
COMMITTEE DURATION: 9 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MED 203	**BASIC MEDICAL SCIENCES II**	**179**	**30**	**208**
	DISCIPLINE			
	ANATOMY	31	2Grx8H	39
	BIOCHEMISTRY	16	3Grx3H	19
	BIOPHYSICS	14	0	14
	BIOSTATISTICS	10	3Grx2H	12
	HISTOLOGY & EMBRYOLOGY	15	2Grx5H	20
	IMMUNOLOGY	25	0	25
	MEDICAL BIOLOGY	4	0	4
	PATHOLOGY	12	0	12
	PHYSIOLOGY	47	3Grx14H	61
	SCIENTIFIC PROJECTS-II	2	0	2

MED 202	**INTRODUCTION TO CLINICAL PRACTICE- II**	8	16	24

Coordination Committee	**Head**	Bayram YILMAZ, PhD, Prof.
	Secretary	Alev CUMBUL, PhD.Assist. Prof.
	Member	Mehtap KAÇAR, PhD. MD. Assoc.Prof.
	Member	Akif MAHARRAMOV, PhD.Assist. Prof.

COMMITTEE I - CARDIOVASCULAR and RESPIRATORY SYSTEMS LECTURERS

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	**LECTURERS**
ANATOMY	Yüksel AYDAR, PhD Prof.* ERDEM SÖZTUTAR, MD. Lecturer Aikaterina PANTELİ, MD. Lecturer. LAB: Sinem GERGİN, MD
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof. LAB: Jale ÇOBAN, MD Prof. LAB: Müge KOPUZ, PhD.
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assist. Prof.
BIOSTATISTICS	E. Çiğdem KASPAR, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof. Aylin YABA UÇAR, PhD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD PhD Assoc. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof. Soner DOĞAN, PhD Assoc. Prof. Deniz KIRAÇ, PhD Assist. Prof.
PATHOLOGY	Ferda ÖZKAN, MD. Prof. Işın DOĞAN EKİCİ, MD. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR, MD PhD Assoc. Prof . Burcu GEMİCİ, PhD Assist. Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMİREL, MD PhD Assoc. Prof.

MED 202 INTRODUCTION TO CLINICAL PRACTICE II	
DISCIPLINE	**LECTURERS**
CLINICAL SKILLS LAB	Güldal İZBIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assoc. Prof. A. Arzu AKALIN, MD Assist. Prof. Serdar ÖZDEMİR, MD, Ph.D, Assist. Prof.

COMMITTEE I - CARDIOVASCULAR and RESPIRATORY SYSTEMS
AIM and LEARNING OBJECTIVES

AIMS

1. To convey knowledge about biophysical, biological, anatomical, embryological, histological, physiological and biochemical properties of cardiovascular and respiratory systems,
2. To convey knowledge on hemodynamics of cardiovascular system,
3. To convey information about electrical activity of heart and functional activity of lungs by defining all basic parameters,
4. To convey information about cardiovascular and respiratory system anatomy
5. To convey basic, general knowledge about immunology,
6. To convey basic knowledge about biostatistics.

LEARNING OBJECTIVES

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

1.0. For cardiovascular and respiratory 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 nose, paranasal sinus, heart, lung, pharynx, larynx;
  3.1. describe their anatomy,
  3.2. associate with adjacent tissues and organs,
  3.3. explain their functional and clinical reflections..
4.0. For nervous, vascular structures and the cavities surrounding these structures in head-neck anatomy;
  4.1. describe these structures,
  4.2. associate with their clinical reflections.
5.0. For thorax and diaphragm; including breasts
  5.1. describe their anatomy,
  5.2. associate with adjacent tissue and organs,
  5.3. explain their functional and clinical reflections.
6.0. For cardiovascular and respiratory system;
  6.1. explain developmental stages,
  6.2. list embryological origins of organs,
  6.3. associate the relation between major birth abnormalities and developmental process.
7.0. list lymphatic organs of cardiovascular system and histological properties 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. explain functions of pulmonary system.
15.0. explain mechanisms of oxygen and carbon dioxide exchange and transportation.
16.0. associate the relation between muscle contractions with the structures affecting contraction.
17.0. describe nervous (autonomous) control of cardiovascular and pulmonary systems.
18.0. describe dynamics of microcirculation together with general and pulmonary circulation.
19.0. describe measurements of hematocrit and blood pressure; blood group analysis; ECG and spirometry methods.
20.0. For immune system;
  20.1. explain development and differentiation of immune cells,

20.2. relate changes with diseases,
20.3. describe the properties of immune response.

21.0. For hemodynamic changes;
21.1. explain mechanisms of development,
21.2. describe mechanisms for cellular damage,
21.3. describe pathologies occurring due to cell and tissue damage.

22.0. list disorders resulting from hemodynamic changes.

23.0. For endogenous and exogenous harmful agents;
23.1. describe their mechanisms of cell and tissue damage,
23.2. describe adaptation process of cells.

24.0. list pathologies resulting from endogenous and exogenous harmful agents and consequently emerging diseases.

25.0. count biostatistical sampling methods.

26.0. count significance tests in biostatistics.

27.0. choose significance tests according to the properties of biostatistical data.

28.0. prepare a research project draft.

29.0. explain hematocrit and blood pressure measurements; blood type analysis; ECG and spirometry methods.

COMMITTEE I - CARDIOVASCULAR and RESPIRATORY SYSTEMS
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	IE	TOTAL
3.0-5.0	ANATOMY	Dr. Y. Aydar Dr. E.Söztutar	23	11	11	**45**
9.0-10.0, 15.0	BIOCHEMISTRY	Dr. İ. Özden	11	6	6	**23**
1.0, 8.0	BIOPHYSICS	Dr. A. Maharramov	9	4	4	**17**
25-28	BIOSTATISTICS	Dr. Ç. Kaspar	-	3	3	**6**
6.0,7.0	HISTOLOGY &	Dr. Ü. Uslu	4	2	2	**8**
	EMBRYOLOGY	Dr. A. Cumbul	8	5	5	**18**
11.0, 20	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	15	7	7	**29**
2.0	MEDICAL BIOLOGY	Dr. T. İsbir Dr. D. Kıraç	2	1	1	**4**
21-24	PATHOLOGY	Dr. F. Özkan	4	2	2	**8**
		Dr. I. D. Ekici	4	2	2	**8**
1.0,2.0,12.0-15.0, 18.0,19.0, 28.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar	30	15	15	**60**
		TOTAL	**110**	**58/200#**	**58/200#**	**226**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EMQ and MEQs POINTS	
		CE	
		EMQ	MEQ
3.0-5.0	ANATOMY	3	-
9.0-10.0, 15.0	BIOCHEMISTRY	1	-
6.0, 7.0	HISTOLOGY & EMBRYOLOGY	1	-
11.0, 20	IMMUNOLOGY	1	-
1.0,2.0,12.0-15.0, 18.0,19.0, 28.0	PHYSIOLOGY	4	-
25-28	BIOSTATISTICS	-	4
	TOTAL	**10**	**4**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB ASSESSMENT POINTS	
		DOPS	LPE
3.0-5.0	ANATOMY	-	30
9.0-10.0, 15.0	BIOCHEMISTRY	-	10
6.0,7.0	HISTOLOGY & EMBRYOLOGY	20	-
1.0,2.0,12.0-15.0, 18.0,19.0, 28.0	PHYSIOLOGY	-	40
	TOTAL	**100**	

Total number of MCQs are 110, equal to 86 pts each question has 0,781 pts).
EMQs have value equal to 10 pts (each question has equal value).
MEQs of Biostatistics has equal value 4 pts.
Total value of DOPS and LPE are equal to 100 points

Commitee Score (CS) = 90% CE (MCQ+EMQ+MEQ) + 10% (DOPS+LPE)

MCQ: Multiple Choice Question
EMQ: Extending Matching Question
MEQ: Modified Essay Questions
LPE: Laboratory Practical Exam
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
pts: Points

In FE and ICE**, 58** out of 200 FE and ICE MCQs will be from Committee I (Each question is equal value)

COMMITTEE I - CARDIOVASCULAR and RESPIRATORY SYSTEMS
I. WEEK / 05 – 09 Sep 2016

	Monday 05-Sep-2016	Tuesday 06-Sep-2015	Wednesday 07-Sep-2015	Thursday 08-Sep-2016	Friday 09-Sep-2016
09.00- 09.50	**Introductory Session** Introduction to Phase II Phase II Coordination Committee Introduction to Committee I Secretary of Committee	**Independent Learning**	**Lecture** Structure of Hemoglobin *İnci Özden*	**Laboratory / Biochemistry** Peripheral Blood Smear *Jale Çoban & Müge Kopuz* **Group B** **Group A, C I.L**	**Lecture** Adaptations *Ferda Özkan*
10.00- 10.50	**Lecture** Functions of blood *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Neck *Erdem Soztutar*	**Lecture** Structure of Hemoglobin *İnci Özden*		**Lecture** Adaptations *Ferda Özkan*
11.00- 11.50	**Lecture** Scalp and Face *Erdem Soztutar*	**Lecture** Neck *Erdem Soztutar*	**Lecture** Sampling, Data Collection and Data Processing *E. Çiğdem Kaspar*		**Lecture** Erythrocytes *Bayram Yılmaz & Mehtap Kaçar*
12.00- 12.50	**Lecture** Scalp and Face *Erdem Soztutar*	**Lecture** Introduction to Immunology *Gülderen Yanıkkaya Demirel*	**Lecture** Statistical Decision Theory, Test of Hypothesis and Significance *E. Çiğdem Kaspar*	**Independent Learning**	**Lecture** Erythrocytes *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Porphin, Porphyrins, Heme, Hemoglobin *İnci Özden*	**Lecture** Introduction to Pathology *Ferda Özkan*	**Lecture** Hematopoesis and Development of Immune System *Gülderen Yanıkkaya Demirel*	**Lecture** Introduction to Bioelectromagnetics Magnetic Field *Akif Maharramov*	ICP / CSL: Hand Washing & Wearing Sterile Gloves *Güldal İzbırak/Serdar Özdemir*
15.00- 15.50	**Lecture** Porphin, Porphyrins, Heme, Hemoglobin *İnci Özden*	**Laboratory / Anatomy** Neck *Erdem Soztutar & Sinem Gergin* **Group A IL** / **Group B**	**Lecture** Hematopoesis and Development of Immune System *Gülderen Yanıkkaya Demirel*	**Lecture** Introduction to Bioelectromagnetics Magnetic Field *Akif Maharramov*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D Independent Learning**
16.00- 16.50	**Laboratory / Anatomy** Scalp and Face *Erdem Soztutar & Sinem Gergin* **Group A** / **Group B I.L**	**Group A** / **Group B I.L**	**Independent Learning**	**Independent Learning**	
17.00-17.50	**Group A IL** / **Group B**	**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 and RESPIRATORY SYSTEMS
II. WEEK / 12 – 16 Sep 2016

	Monday 12-Sep-2016	Tuesday 13-Sep-2015	Wednesday 14-Sep-2015	Thursday 15-Sep-2016	Friday 16-Sep-2016
09.00- 09.50	**RELIGIOUS HOLIDAY**				
10.00- 10.50					
11.00- 11.50					
12.00- 12.50					
13.00- 13.50					
14.00- 14.50					
15.00- 15.50					
16.00- 16.50					
17.00-17.50					

COMMITTEE I - CARDIOVASCULAR and RESPIRATORY SYSTEMS
III. WEEK / 19 – 23 Sep 2016

	Monday 19-Sep-2016	Tuesday 20-Sep-2016	Wednesday 21-Sep-2016	Thursday 22-Sep-2016		Friday 23-Sep-2016
09.00- 09.50	**Independent Learning**	**Lecture** Leukocytes *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Histology of Lymph Organs; General Aspects, Thymus and Lymph Node *Alev Cumbul*	**Laboratory / Physiology** Hematocrit Determination *Bayram Yılmaz & Mehtap Kaçar*	**LaboraLtory / Biochemistry** Peripheral Blood Smear *Jale Çoban & Müge Kopuz* **Group A**	**Lecture** Innate Immunity *Gülderen Yanıkkaya Demirel*
10.00- 10.50	**Lecture** Thoracic Wall *Yüksel Aydar*	**Lecture** Leukocytes *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Histology of Lymph Organs; Spleen and MALT (Tonsills) *Alev Cumbul*	**Group C I.L** / **Group B**		**Lecture** Innate Immunity *Gülderen Yanıkkaya Demirel*
11.00- 11.50	**Lecture** Thoracic Wall *Yüksel Aydar*	**Lecture** Thoracic Cavity & Mediastinum *Yüksel Aydar*	**Lecture** Lymphocytes and the Immune System *Bayram Yılmaz & Mehtap Kaçar*	**Group C** / **Group B I.L**		**Lecture** Blood Types and Transfusion Reactions *Bayram Yılmaz & Mehtap Kaçar*
12.00- 12.50	**Lecture** Synthesis of Hemoglobin *İnci Özden*	**Lecture** Thoracic Cavity & Mediastinum *Yüksel Aydar*	**Lecture** Platelets and Coagulation *Bayram Yılmaz & Mehtap Kaçar*		**Independent Learning**	**Lecture** Blood Types and Transfusion Reactions *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**		**Lunch Break**
14.00- 14.50	**Lecture** Functions of Hemoglobin *İnci Özden*	**Laboratory / Anatomy** Thoracic Wall, Cavity and Mediastinum *Yüksel Aydar & Sinem Gergin* **Group B I.L** / **Group A**	**Laboratory / Physiology** Hematocrit Determination *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Functions of Hemoglobin *İnci Özden*		**Lecture** Cellular Injury and Necrosis *Işın D. Ekici*
15.00- 15.50	**Lecture** Introduction to Bioelectromagnetics: Electromagnetic Field *Akif Maharramov*	**Group B** / **Group A I.L**	**Group A** / **Group B,C Independent Learning**	**Lecture** Functions of Hemoglobin *İnci Özden*		**Independent Learning**
16.00- 16.50	**Lecture** Bioelectromagnetic Effects on the Heart *Akif Maharramov*	**Independent Learning**	**Independent Learning**	**Independent Learning**		**Independent Learning**
17.00-17.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**		**Independent Learning**

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COMMITTEE I - CARDIOVASCULAR and RESPIRATORY SYSTEMS
IV. WEEK / 26 – 30 Sep 2016

	Monday 26-Sep-2016	Tuesday 27-Sep-2016	Wednesday 28-Sep-2016	Thursday 29-Sep-2016	Friday 30-Sep-2016
09.00- 09.50	**Lecture** Introduction to Cardiovascular System *Yüksel Aydar*	**Lecture** Coronary arteries, Cardiac Veins, and Cardiac Conduction System *Yüksel Aydar*	**Lecture** Adaptive Immunity *Gülderen Yanıkkaya Demirel*	**Laboratory / Histology Assessment (DOPs)** Histology of Lymph Organs	**Independent Learning**
10.00- 10.50	**Lecture** Pericardium and Outer Surface of the Heart *Yüksel Aydar*	**Lecture** Coronary arteries, Cardiac Veins, and Cardiac Conduction System *Yüksel Aydar*	**Lecture** Adaptive Immunity *Gülderen Yanıkkaya Demirel*	**Group A** **Group B Independent Learning**	**Independent Learning**
11.00- 11.50	**Lecture** Chambers of the Heart *Yüksel Aydar*	**Lecture** Regulation of Cardiac Function *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Test Hypotheses and Significance in Large Samples *E. Çiğdem Kaspar*	**Group A Independent Learning** **Group B**	**Lecture** Rhythmical Excitation of the Heart *Bayram Yılmaz & Mehtap Kaçar*
12.00- 12.50	**Lecture** Chambers of the Heart *Yüksel Aydar*	**Lecture** Regulation of Cardiac Function *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Test Hypotheses and Significance in Large Samples *E. Çiğdem Kaspar*		**Lecture** Rhythmical Excitation of the Heart *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Disorders Concerning Hemoglobin Synthesis *İnci Özden*	**Lecture** Great vessels of the heart *Yüksel Aydar*	**Lecture** Histology of Circulatory Systems; Gn Spec. Arteries *Ünal Uslu*	**Laboratory / Physiology** Blood Typing & Bleeding Time *Bayram Yılmaz & Mehtap Kaçar*	**ICP** / CSL: Hand Washing & Wearing Sterile Gloves *Güldal İzbırak/Serdar Özdemir*
15.00- 15.50	**Lecture** Functions of Hemoglobin *İnci Özden*	**Lecture** Major Vessels of the Body *Yüksel Aydar*	**Lecture** Histology of Circulatory Systems; Capillaries & Veins *Ünal Uslu*	**Group B** **Group A,C I.L**	**Group A Independent Learning** **Group B Independent Learning** **Group C** **Group D Independent Learning**
16.00-16.50	**Laboratory / Anatomy** Pericardium, Outer Surface and Chambers of the Heart *Yüksel Aydar & Sinem Gergin* **Group B** / **Group A I.L**	**Laboratory / Anatomy** Coronary Arteries, Cardiac Veins, Cardiac Conduction System, Great Vessels of Heart and Body *Yüksel Aydar & Sinem Gergin* **Group A** / **Group B I.L**	**Laboratory / Physiology** Blood Typing & Bleeding Time *Bayram Yılmaz & Mehtap Kaçar*	**Group B, C Independent Learning** **Group A**	
17.00-17.50	**Group B I.L** / **Group A**	**Group A I.L** / **Group B**	**Group C** / **Group A, B I.L**		**Independent Learning**

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

COMMITTEE I - CARDIOVASCULAR & RESPIRATORY SYSTEMS
V. WEEK / 03 Oct – 07 Oct 2016

	Monday 03-Oct-2016	Tuesday 04-Oct-2016	Wednesday 05-Oct-2016	Thursday 06-Oct-2016	Friday 07-Oct-2016
09.00- 09.50	**Lecture** Degradation of Hemoglobin *İnci Özden*	**Independent Learning**	**Lecture** Injury by Toxic Substances and Pneumoconiosis *Işın D: Ekici*	**Laboratory/ Physiology** Electrocardiography *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Antigen Antibody Interaction *Gülderen Yanıkkaya Demirel*
10.00- 10.50	**Lecture** Degradation of Hemoglobin *İnci Özden*	**Lecture** Principles of Electrocardiography *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Injury by Toxic Substances and Pneumoconiosis *Işın D: Ekici*	**Group C** / **Group A,B I.L**	**Lecture** Antigen Antibody Interaction *Gülderen Yanıkkaya Demirel*
11.00- 11.50	**Lecture** Fetal circulation *Yüksel Aydar*	**Lecture** Cardiac Arrhythmias *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Principles of Hemodynamics *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory/ Physiology** Electrocardiography *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Development of Circulatory Systems; Septation *Alev Cumbul*
12.00- 12.50	**Lecture** Introduction to lymphatic system *Yüksel Aydar*	**Lecture** Cardiac Arrhythmias *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Principles of Hemodynamics *Bayram Yılmaz & Mehtap Kaçar*	**Group B,C I.L** / **Group A**	**Lecture** Congenital Heart Anomalies *Alev Cumbul*
13.00- 13.50			**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Circulation of lymph *Yüksel Aydar*	**Laboratory/ Physiology** Electrocardiography *Bayram Yılmaz & Mehtap Kaçar* **Group B**	**Laboratory / Biochemistry** Peripheral Blood Smear *Jale Çoban & Müge Koptuz* **Group C**	**Group B I.L**	**Lecture** Development of Circulatory System; Endocardial Tube Formation & Looping *Alev Cumbul*	**Lecture** Biophysics of Cardiac Muscle Contraction *Akif Maharramov*	**ICP** / CSL: Hand Washing & Wearing Sterile Gloves *Güldal İzbırak/Serdar Özdemir*
15.00- 15.50	**ICP** / CSL: Hand Washing & Wearing Sterile Gloves *Güldal İzbırak/Serdar Özdemir*			**Lecture** Biophysics of Hemodynamics *Akif Maharramov*	**Lecture** Biophysics of Blood Pressure *Akif Maharramov*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D**
16.00- 16.50	**Group A Independent Learning** / **Group B** / **Group C Independent Learning** / **Group D Independent Learning**	**Independent Learning**		**Lecture** Measurements of Different Hemodynamic Parameters *Akif Maharramov*	**Lecture** Hyperemia & Congestion *Ferda Özkan*	
17.00-17.50		**Independent Learning**	**Independent Learning**	**Lecture** Hyperemia & Congestion *Ferda Özkan*	**Independent Learning**

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COMMITTEE I - CARDIOVASCULAR & RESPIRATORY SYSTEMS
VI. WEEK / 10 – 14 Oct 2016

	Monday 10-Oct-2016	Tuesday 11-Oct-2016	Wednesday 12-Oct-2016	Thursday 13-Oct-2016	Friday 14-Oct-2016
09.00- 09.50	**Lecture** Adaptive Immunity *Gülderen Yanıkkaya Demirel*	**Lecture** The Pharynx *Yüksel Aydar*	**Lecture** Development of Circulatory Systems; Arteries and Anomalies *Alev Cumbul*	**Laboratory / Physiology** ECG-II *Bayram Yılmaz & Mehtap Kaçar* **Group A** / **Group B I.L**	**Lecture** Signal Transduction in Immune System *Gülderen Yanıkkaya Demirel*
10.00- 10.50	**Lecture** Immune Cell Trafficking *Gülderen Yanıkkaya Demirel*	**Lecture** The Pharynx *Yüksel Aydar*	**Lecture** Development of Circulatory Systems; Veins and Anomalies *Alev Cumbul*		**Lecture** Humoral Immunity *Gülderen Yanıkkaya Demirel*
11.00- 11.50	**Lecture** Introduction to Respiratory System *Yüksel Aydar*	**Lecture** Disorders Concerning Hemoglobin Metabolism *İnci Özden*	**Lecture** Microcirculation and the Lymphatic System *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory / Physiology** ECG-II *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Humoral Immunity *Gülderen Yanıkkaya Demirel*
12.00- 12.50	**Lecture** Nasal Anatomy and Paranasal Sinuses *Yüksel Aydar*	**Lecture** Disorders Concerning Hemoglobin Metabolism *İnci Özden*	**Lecture** Capillary Fluid Exchange, Interstitial Fluid, and Lymph Flow *Bayram Yılmaz & Mehtap Kaçar*	**Group C** / **Group A,B I.L**	**Lecture** Coronary Circulation *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Vascular Distensibility and Functions of Arterial and Venous Systems *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** The Larynx *Yüksel Aydar*	**Laboratory / Physiology** ECG-II *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Biological Basis of Cardiovascular Diseases; Death Begets Failure in the Heart *Turgay İsbir*	**Independent Learning**
15.00- 15.50	**Lecture** Vascular Distensibility and Functions of Arterial and Venous Systems *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** The Larynx *Yüksel Aydar*	**Group A, C I.L** / **Group B**	**Lecture** Biological Basis of Cardiovascular Diseases; Death Begets Failure in the Heart *Turgay İsbir*	**ICP** / CSL: **ICP** CSL: Vital Signs *Hülya Akan & Güldal İzbırak*
16.00- 16.50	**Independent Learning**	**Laboratory / Anatomy** Upper Respiratory System: Nose, Paranasal Sinuses, Pharynx and Larynx *Yüksel Aydar & Sinem Gergin* **Group A** / **Group B I.L**	**Independent Learning**	**Lecture** Cellular Injury and Necrosis *Işın D. Ekici*	**Group A Independent Learning** / **Group B** / **Group D Independent Learning** / **Group C Independent Learning**
17.00-17.50	**Independent Learning**	**Group A I.L** / **Group B**	**Independent Learning**	**Lecture** Injury by Endogenous Substances *Işın D. Ekici*	

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COMMITTEE I - CARDIOVASCULAR & RESPIRATORY SYSTEMS
VII. WEEK / 17 – 21 Oct 2016

	Monday 17-Oct-2016	Tuesday 18-Oct-2016	Wednesday 19-Oct-2016	Thursday 20-Oct-2016	Friday 21-Oct-2016
09.00- 09.50	**Lecture** Local and Humoral Control of Blood Flow by the Tissues *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Regulation of Blood Pressure *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Immunodeficiencies *Gülderen Yanıkkaya Demirel*	**Laboratory / Histology Assessment (DOPs)** Histology of the CVS & Respiratory System	**Lecture** Hypersensitivity Reactions, Allergy *Gülderen Yanıkkaya Demirel*
10.00- 10.50	**Lecture** Local and Humoral Control of Blood Flow by the Tissues *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Regulation of Blood Pressure *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Immunodeficiencies *Gülderen Yanıkkaya Demirel*	**Group A I.L** / **Group B**	**Lecture** Hypersensitivity Reactions, Allergy *Gülderen Yanıkkaya Demirel*
11.00- 11.50	**Lecture** Cellular Immunity *Gülderen Yanıkkaya Demirel*	**Lecture** Hemodynamics *Ferda Özkan*	**Lecture** Heart Valves and Heart Sounds *Bayram Yılmaz & Mehtap Kaçar*	**Group A** / **Group B I.L**	**Lecture** Hemorrhage and Thrombosis *Ferda Özkan*
12.00- 12.50	**Lecture** Cellular Immunity *Gülderen Yanıkkaya Demirel*	**Lecture** Hemodynamics *Ferda Özkan*	**Lecture** Heart Valves and Heart Sounds *Bayram Yılmaz & Mehtap Kaçar*		**Lecture** Hemorrhage and Thrombosis *Ferda Özkan*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00-14.50	**Lecture** Erythrocytes *İnci Özden*	**Laboratory / Anatomy** Lower respiratory system: Trachea and lungs *Yüksel Aydar & Sinem Gergin* **Group B** / **Group A I.L**	**Lecture** Histology of The Upper Respiratory Tract *Ünal Uslu*	**Lecture** Ischemia and Infarction *Ferda Özkan*	**ICP** **CSL: Vital Signs** ***Hülya Akan & Güldal İzbırak*** **Group A** **Laboratory / Physiology** Blood Pressure *Bayram Yılmaz & Mehtap Kaçar* Group C **Group B, D Independent Learning**
15.00- 15.50	**Lecture** Erythrocytes *İnci Özden*	**Group B I.L** / **Group A**	**Lecture** Histology of The Respiratory Systems; Conducting Part *Ünal Uslu*	**Lecture** Histology of The Respiratory Systems; Respiratory Part *Ünal Uslu*	
16.00- 16.50	**Lecture** The trachea *Yüksel Aydar*	**Independent Learning**	**Lecture** Principle of Surface Tension & Alveolar Mechanic *Akif Maharramov*	**Lecture** Hemorheology *Akif Maharramov*	**Independent Learning**
17.00-17.50	**Lecture** The lungs *Yüksel Aydar*	**Independent Learning**	**Lecture** Surfactant and Its Effect on SurfaceTension *Akif Maharramov*	**Lecture** Hemorheology *Akif Maharramov*	**Independent Learning**

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

COMMITTEE I - CARDIOVASCULAR & RESPIRATORY SYSTEMS
VIII. WEEK / 24 – 28 Oct 2016

	Monday 24-Oct-2016	Tuesday 25-Oct-2016	Wednesday 26-Oct-2016	Thursday 27-Oct-2016	Friday 28-Oct-2016
09.00- 09.50	**Lecture** Cardiac Failure *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Nervous Regulation of the Circulation *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Infection and Immunity *Gülderen Yanıkkaya Demirel*	**Laboratory / Physiology** Heart Sounds *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Pulmonary Circulation, Pulmonary Edema, Pleural Fluid *Bayram Yılmaz & Mehtap Kaçar*
10.00- 10.50	**Lecture** Circulatory Shock and Physiology of Its Treatment *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Nervous Regulation of the Circulation *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Infection and Immunity *Gülderen Yanıkkaya Demirel*	**Group B** / **Group A I.L**	**Lecture** Pulmonary Circulation, Pulmonary Edema, Pleural Fluid *Bayram Yılmaz & Mehtap Kaçar*
11.00- 11.50	**Lecture** Cancer Immunology *Gülderen Yanıkkaya Demirel*	**Lecture** Development of Head; Splanchocranium, Neurocranium *Alev Cumbul*	**Lecture** Pulmonary Ventilation *Bayram Yılmaz & Mehtap Kaçar*	**Group B I.L** / **Group A**	**Lecture** How to Write a Scientific Project *Gülderen Yanıkkaya Demirel*
12.00- 12.50	**Lecture** Cancer Immunology *Gülderen Yanıkkaya Demirel*	**Lecture** Development of Neck; Pharyngeal Arches and Anomalies *Alev Cumbul*	**Lecture** Pulmonary Ventilation *Bayram Yılmaz & Mehtap Kaçar*		**Lecture** How to Write a Scientific Project *Gülderen Yanıkkaya Demirel*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Pleura and Diaphragm *Yüksel Aydar*	**Lecture** Review of the Cardiovascular System *Yüksel Aydar*	**Lecture** Modeling in Circulatory & Respiratory Systems *Akif Maharramov*	**Laboratory / Physiology** Heart Sounds *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Development of The Respiratory Systems & Anomalies *Alev Cumbul*
15.00- 15.50	**Lecture** Pleura and Diaphragm *Yüksel Aydar*	**Lecture** Review of the Respiratory System *Yüksel Aydar*	**Lecture** Modeling in Circulatory & Respiratory Systems *Akif Maharramov*	**Group C** / **Group A, B I.L**	**Laboratory / Histology Lab Make up Session Group A / Group B**
16.00- 16.50	**Laboratory / Anatomy** Pleura and diaphragm *Yüksel Aydar & Sinem Gergin* **Group A** / **Group B I.L**	**Laboratory / Physiology Blood Pressure** *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory / Physiology** Blood Pressure *Bayram Yılmaz & Mehtap Kaçar*	**Independent Learning**	
17.00-17.50	**Group A I.L** / **Group B**	**Group A** / **Group B, D Independent Learning**	**Group A, C I.L** / **Group B**	**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 & RESPIRATORY SYSTEMS
IX. WEEK / 31 Oct – 04 Nov 2016

	Monday 31-Oct-2016	Tuesday 01-Nov-2016	Wednesda6 02-Nov-2015	Thursday 03-Nov-2016	Friday 04-Nov-2016
09.00- 09.50	**Lecture** Transport of Blood Gases *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Test Hypotheses and Significance in Small Samples *E. Çiğdem Kaspar*	**Lecture** Regulation of Respiration *Bayram Yılmaz & Mehtap Kaçar*	**Independent Learning**	**ICP** CSL: Vital Signs *Hülya Akan & Serdar Özdemir*
10.00- 10.50	**Lecture** Transport of Blood Gases *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Test Hypotheses and Significance in Small Samples *E. Çiğdem Kaspar*	**Lecture** Regulation of Respiration *Bayram Yılmaz & Mehtap Kaçar*		**Group A Independent Learning** / **Group B Independent Learning** / **Group C** / **Group D Independent Learning**
11.00- 11.50	**Lecture** Immunological Laboratory Tests *Gülderen Yanıkkaya Demirel*	**Lecture** Diffusion of Blood Gases *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Test Hypotheses and Significance in Small Samples *E. Çiğdem Kaspar*		
12.00- 12.50	**Lecture** Immunological Laboratory Tests *Gülderen Yanıkkaya Demirel*	**Lecture** Diffusion of Blood Gases *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Test Hypotheses and Significance in Small Samples *E. Çiğdem Kaspar*		**Independent Learning**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Test Hypotheses and Significance in Large Samples *E. Çiğdem Kaspar*	**Lecture** Oxygen, Oxidative Stress, NO, Redox Disequilibrium in the Failing Heart and Cardiovascular System *Deniz Kıraç*	**Invited Speaker**	**Lecture** Aviation, High-Altitude and Space Physiology *Bayram Yılmaz & Mehtap Kaçar*	**ICP** **CSL:** Vital Signs *Hülya Akan & Güldal İzbırak*
15.00- 15.50	**Lecture** Test Hypotheses and Significance in Large Samples *E. Çiğdem Kaspar*	**Lecture** Oxygen, Oxidative Stress, NO, Redox Disequilibrium in the Failing Heart and Cardiovascular System *Deniz Kıraç*	**Invited Speaker**	**Lecture** Physiology of Deep-Sea Diving and Hyperbaric Conditions *Bayram Yılmaz & Mehtap Kaçar*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D**
16.00- 16.50	**Laboratory / Physiology** Spirometry *Bayram Yılmaz & Mehtap Kaçar* **Group B** / **Laboratory** Biostatistics StatisticalApplication on SPSS *E. Çiğdem Kaspar* **Group C** / **Group A Independent Learning**	**Laboratory / Physiology** Spirometry *Bayram Yılmaz & Mehtap Kaçar* **Group C** / **Laboratory** Biostatistics StatisticalApplication on SPSS *E. Çiğdem Kaspar* **Group A** / **Group B Independent Learning**	**Independent Learning**	**Laboratory / Physiology** Spirometry *Bayram Yılmaz & Mehtap Kaçar* **Group A** / **Laboratory** Biostatistics StatisticalApplication on SPSS *E. Çiğdem Kaspar* **Group B** / **Group C Independent Learning**	
17.00-17.50			**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 & RESPIRATORY SYSTEMS
X. (EXAM) WEEK / 07 – 11 Nov 2016

	Monday 07-Nov-2015	Tuesday 08-Nov-2016	Wednesday 09-Nov-2016	Thursday 10-Nov-2016	Friday 11-Nov-2016
09.00- 09.50	Independent Learning	Assessment Session (Practical Exam)	Independent Learning	Commemoration of Atatürk	Independent Learning
10.00- 10.50					Assessment Session Committee I (MCQ-EMQ)
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Assessment Session (Practical Exam)	Independent Learning	Independent Learning	Assessment Session Biostatistics (MEQ)
15.00- 15.50					
16.00- 16.50					**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Committee I Program *Secretary of Commitee*
17.00-17.50					

COMMITTEE II - GASTROINTESTINAL SYSTEM and METABOLISM
DISTRIBUTION of LECTURE HOURS
November 14 – December 23, 2016
COMMITTEE DURATION: 6 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MED 203	**BASIC MEDICAL SCIENCES II**	**114**	**19**	**133**
	DISCIPLINE			
	ANATOMY	20	2Grx7H	27
	BIOCHEMISTRY	36	3Grx3H	39
	BIOPHYSICS	14	0	14
	BIOSTATISTICS	8	3Grx2H	10
	HISTOLOGY & EMBRYOLOGY	9	2Grx5H	14
	IMMUNOLOGY	2	0	2
	MEDICAL BIOLOGY	6	0	6
	PHYSIOLOGY	17	3Grx2H	19
	SCIENTIFIC PROJECTS-II	2	0	2

MED 202	**INTRODUCTION TO CLINICAL PRACTICE- II**	4	8	12

Coordination Committee	**Head**	Turgay İSBİR, PhD, Prof.
	Secretary	Alev CUMBUL, PhD.Assist.Prof.
	Member	Deniz KIRAÇ, PhD.Assist.Prof.
	Member	Bilge Güvenç TUNA, PhD.Assist..Prof.

COMMITTEE II - GASTROINTESTINAL SYSTEM and METABOLISM

LECTURERS

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	**LECTURERS**
ANATOMY	Yüksel AYDAR, PhD Prof. ERDEM SÖZTUTAR, MD, Lecturer Aikaterina PANTELİ, MD. Lecturer LAB: Sinem GERGIN, MD
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof. LAB: Jale ÇOBAN, MD Prof. LAB: Müge KOPUZ, PhD.
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assist. Prof.
BIOSTATISTICS	E.Çiğdem KASPAR, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof. Aylin YABA UÇAR PhD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMIREL, MD, PhD Assoc. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof. Soner DOĞAN, PhD Assoc. Prof. Deniz KIRAÇ, PhD Assist. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR, MD PhD Assoc. Prof. Burcu GEMİCİ, PhD Assist. Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMIREL, MD, PhD Assoc. Prof.

MED 202 INTRODUCTION TO CLINICAL PRACTICE II	
DISCIPLINE	**LECTURERS**
CLINICAL SKILLS LAB	Güldal İZDIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assoc. Prof. A.Arzu AKALIN, MD Assist. Prof. Serdar ÖZDEMİR, MD, Ph.D, Assist. Prof.

COMMITTEE II - 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 good laboratory and clinical practices in research projects.

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.
3.0. For oral cavity, temporomandibular joint, chewing muscles, pharynx, esophagus, stomach, small intestine, large intestine, liver, gall bladder and tracts, pancreas, spleen and peritoneum;
   3.1. describe the anatomy,
   3.2. associate with adjacent tissue and organs,
   3.3. explain their functional and clinical reflections.
4.0. For abdominal wall, inguinal canal and portal system;
   4.1. describe anatomy,
   4.2. associate with adjacent tissue and organs,
   4.3. explain their functional and clinical reflections.
1.0. For digestive system and related glands;
   1.1. classify embryological origins, developmental stages and histological properties,
   1.2. associate the relation between birth abnormalities and developmental processes.
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 explain good laboratory (GLP) and clinical (GCP) practice for research projects.

COMMITTEE II - GASTROINTESTINAL SYSTEM and METABOLISM

COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	IE	TOTAL
3.0, 3.1, 4.0 4.2	ANATOMY	Dr. Y. Aydar	20	7	7	**34**
2.0, 6.0-6.3, 8.0-11.0	BIOCHEMISTRY	Dr. İ. Özden	30	12	12	**54**
1	BIOPHYSICS	Dr. A. Maharramov	12	4	4	**20**
12	BIOSTATISTICS	Dr. Ç. Kaspar	-	2	2	**4**
5.0-5.2	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu	4	2	2	**8**
		Dr. A. Cumbul	5	2	2	**9**
3,3	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	1	1	1	**3**
3.3,4.3	MEDICAL BIOLOGY	Dr. S.Doğan	3	2	2	**7**
7.0-7.3	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar	15	5	5	**25**
		TOTAL	**90**	**37/200#**	**37/200#**	**164**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EMQ and MEQ POINTS	
		CE	
		EMQ	MEQ
3.0, 3.1, 4.0-4.2	ANATOMY	2	-
1	BIOPHYSICS	1	
2.0, 6.0-6.3, 8.0-11.0	BIOCHEMISTRY	4	-
12	BIOSTATISTICS	-	4
5.0-5.2	HISTOLOGY & EMBRYOLOGY	1	-
7.0-7.3	PHYSIOLOGY	2	-
	TOTAL	**10**	**4**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of ASSESSMENT METHODS	
		DOPS	LPE
3.0, 3.1, 4.0-4.2	ANATOMY	-	45
2.0, 6.0-6.3, 8.0-11.0	BIOCHEMISTRY	-	15
5.0-5.2	HISTOLOGY & EMBRYOLOGY	25	-
7.0-7.3	PHYSIOLOGY	-	15
	TOTAL	**100**	

Total number of MCQs are 90, equal to 86 pts each question has 0,955 pts).
EMQs have value equal to 10 pts (each question has equal value).
MEQs of Biostatistics has equal value 4 pts.
Total value of DOPS and LPE are equal to 100 points

Commitee Score (CS) = 90% CE (MCQ+EMQ+MEQ) + 10% (DOPS+LPE)

MCQ: Multiple Choice Question
EMQ: Extending Matching Question
MEQ: Modified Essay Questions
LPE: Laboratory Practical Exam
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
pts: Points

In FE and ICE**, 37** out of 200 FE and ICE MCQs will be from Committee I (Each question is equal value)

COMMITTEE II - GASTROINTESTINAL SYSTEM and METABOLISM

I. WEEK / 14 – 18 Nov 2016

	Monday 14-Nov-2016	Tuesday 15-Nov-2016	Wednesday 16-Nov-2016	Thursday 17-Nov-2016	Friday 18-Nov-2016
09.00- 09.50	**Independent Learning**	**Lecture** Digestion and Absorption of Lipids *İnci. Özden*	**Lecture** Transport of Lipids in Plasma *İnci. Özden*	**Independent Learning**	**Lecture** Analysis of Variance and Multiple Comparisons *E. Çiğdem Kaspar*
10.00- 10.50	**Introductory Session** Introduction to Phase II Phase II Coordination Committee Introduction to Committee II Secretary of Committee	**Lecture** Digestion and Absorption of Lipids *İnci. Özden*	**Lecture** Transport of Lipids in Plasma *İnci. Özden*	**Laboratory / Biochemistry** Lipid Determination in Blood *Jale Çoban & Müge Kopuz*	**Lecture** Analysis of Variance and Multiple Comparisons *E. Çiğdem Kaspar*
11.00- 11.50	**Lecture** Overall Developmental Anatomy of the Digestive Ssystem *Yüksel Aydar*	**Lecture** The Esophagus *Yüksel Aydar*	**Lecture** Analysis of Variance and Multiple Comparisons *E. Çiğdem Kaspar*	**Group A** / **Group B, C Independent Learning**	**Lecture** Gastrointestinal Functions *Bayram Yılmaz & Mehtap Kaçar*
12.00- 12.50	**Lecture** Overall Developmental Anatomy of the Digestive Ssystem *Yüksel Aydar*	**Lecture** The Stomach *Yüksel Aydar*	**Lecture** Analysis of Variance and Multiple Comparisons *E. Çiğdem Kaspar*		**Lecture** Gastrointestinal Functions *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Oral Cavity *Yüksel Aydar*	**Lecture** Duodenum *Yüksel Aydar*	**Lecture** Propulsion and Mixing Movements in the GI tract *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Metabolism of chylomicrons, VLDL, LDL. HDL *İnci. Özden*	**ICP** **CSL:** Nasogastric Administration *ÖzlemTanrıöver& Arzu Akalın*
15.00- 15.50	**Lecture** Oral Cavity *Yüksel Aydar*	**Laboratory / Anatomy** The stomach and duodenum *Yüksel Aydar & Sinem Gergin* **Group A I.L** / **Group B**	**Lecture** Gastrointestinal Motility and Nervous Control *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Metabolism of chylomicrons, VLDL, LDL. HDL *İnci. Özden*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D Independent Learning**
16.00- 16.50	**Laboratory / Anatomy** Oral cavity, pharynx and esophagus *Yüksel Aydar & Sinem Gergin* **Group A** / **Group B I.L**	**Group A** / **Group B I.L**	**Lecture** Bio-thermodynamics, Laws of Thermodynamics *Akif Maharramov*	**Independent Learning**	**Independent Learning**
17.00-17.50	**Group A I.L** / **Group B**	**Independent Learning**	**Lecture** The Zeroth and First Laws of Thermodynamics *Akif Maharramov*		

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

COMMITTEE II - GASTROINTESTINAL SYSTEM and METABOLISM
II. WEEK / 21 – 25 Nov 2016

	Monday 21-Nov-2016	Tuesday 22-Nov-2016	Wednesday 23-Nov-2016	Thursday 24-Nov-2016	Friday 25-Nov-2016
09.00- 09.50	**Lecture** Cholesterol Metabolism *İnci Özden*	**Lecture** Secretory Functions of the Alimentary Tract *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Triacylglycerol Synthesis *İnci Özden*	**Independent Learning**	**Lecture** Energy Transformation & Distribution in Bio-molecular Systems *Akif Maharramov*
10.00- 10.50	**Lecture** Cholesterol Metabolism *İnci Özden*	**Lecture** Secretory Functions of the Alimentary Tract *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Triacylglycerol Synthesis *İnci Özden*	**Laboratory / Biochemistry** Lipid Determination in Blood *Jale Çoban & Müge Kopuz*	**Lecture** Energy Transformation & Distribution in Bio-molecular Systems *Akif Maharramov*
11.00- 11.50	**Lecture** Small intestine *Yüksel Aydar*	**Lecture** Lipogenesis *İnci. Özden*	**Lecture** Linear Regression and Correlation *Çiğdem Kaspar*	**Group A, C I.L** / **Group B**	**Lecture** Digestion and Absorption in the Gastrointestinal Tract *Bayram Yılmaz & Mehtap Kaçar*
12.00- 12.50	**Lecture** Small intestine *Yüksel Aydar*	**Lecture** Lipogenesis *İnci. Özden*	**Lecture** Linear Regression and Correlation *Çiğdem Kaspar*		**Lecture** Digestion and Absorption in the Gastrointestinal Tract *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Large Intesitne *Yüksel Aydar*	**Lecture** Histology of Upper Gastrointestinal Tract; Oral Cavity, Tongue *Ünal Uslu*	**Laboratory /Physiology** *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Lipolysis *İnci Özden*	**ICP** **CSL:** Nasogastric Administration *ÖzlemTanrıöver& Arzu Akalın*
15.00- 15.50	**Lecture** Large Intesitne *Yüksel Aydar*	**Lecture** Histology of Alimentary Canal; Intestines *Ünal Uslu*	**Group B** / **Group A, C I.L**	**Lecture** Lipolysis *İnci Özden*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning** / **Group D Independent Learning**
16.00- 16.50	**Laboratory / Anatomy** Small and large intestines *Yüksel Aydar & Sinem Gergin* — **Group A** / **Group B Independent Learning**	**Laboratory / Anatomy** Pharynx and Esophagus *Yüksel Aydar & Sinem Gergin* — **Group A** / **Group B Independent Learning**	**Laboratory/Physiology** *Bayram Yılmaz & Mehtap Kaçar* **Group A** / **LAB/Biostatistics** Statistical Application on SPSS *Çiğdem Kaspar* **Group C** / **Group B Independent Learning**	**Lecture** Applications of the First Law to Isochoric Process *Akif Maharramov*	
17.00-17.50	**Group A Independent Learning** / **Group B**	**Group A Independent Learning** / **Group B**		**Lecture** Applications of the First Law to Isochoric Process *Akif Maharramov*	**Independent Learning**

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

COMMITTEE II - GASTROINTESTINAL SYSTEM and METABOLISM
III. WEEK / 28 Nov – 02 Dec 2016

	Monday 28-Nov-2016	Tuesday 29-Nov-2016	Wednesday 30-Nov-2016	Thursday 01-Dec-2016	Friday 02-Dec-2016
09.00- 09.50	**Lecture** Oxidation of Fatty acids *İnci Özden*	**Lecture** Ketone bodies *İnci Özden*	**Lecture** Digestion and Absorption of Proteins *İnci Özden*	**Laboratory / Histology Assessment (DOPs)** Histology of GIS I	**Lecture** Good Laboratory Practice (GLP) and Good Clinical Practice (GCP) in Research Projects *Gülderen Yanıkkaya Demirel*
10.00- 10.50	**Lecture** Oxidation of Fatty acids *İnci Özden*	**Lecture** Digestion and Absorption of Proteins *İnci Özden*	**Lecture** Metabolic Fate of Proteins *İnci Özden*	**Group A Independent Learning** / **Group B** .	**Lecture** Evaluation of Scientific Research Projects *Gülderen Yanıkkaya Demirel*
11:00-11:50	**Lecture** Applications of the First Law to Adiabatic Process *Akif Maharramov*	**Lecture** Biological Energy-Mass Flow *Akif Maharramov*	**Lecture** Energetics and Metabolic Rate *Bayram Yılmaz & Mehtap Kaçar*	**Group A** / **Group B Independent Learning**	**Lecture** Gland Associated with the Digestive System; Salivary Glands *Alev Cumbul*
12:00-12:50	**Lecture** Applications of the First Law to Adiabatic Process *Akif Maharramov*	**Lecture** Diffusion and Electro- Diffusion *Akif Maharramov*	**Lecture** Energetics and Metabolic Rate *Bayram Yılmaz & Mehtap Kaçar*		**Lecture** Glands Associated with the Digestive System; Liver *Alev Cumbul*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Ketone bodies *İnci Özden*	**Lecture** Histology of Alimentary Canal; Small Intestine *Ünal Uslu*	Lecture Liver as Organ *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Metabolic Fate of Proteins *İnci Özden*	**ICP** **CSL:** Nasogastric Administration *Özlem Tanrıöver&Arzu Akalın*
15.00- 15.50	**Laboratory / Biochemistry** Lipid Determination in Blood *Jale Çoban & Müge Kopuz*	**Lecture** Histology of Alimentary Canal; Large Intestine & Appendix *Ünal Uslu*	**Invited Speaker**	**Lecture** Individual Amino acids (Synthesis, Degradation) *İnci Özden*	**Group C** / **Group B Independent Learning** / **Independent Learning Group C** / **Group D Independent Learning**
16.00- 16.50	**Group A, B Independent Learning** / **Group C**	**Group C Laboratory /Physiology** *B ayram Yilmaz & Mehtap* / Group A Laboratory /Biostatistics StatisticalApplication on SPSS *Çiğdem Kaspar* / **Group B I.L**	**Invited Speaker**	**Lecture** The Second Law of Thermodynamics *Akif Maharramov*	
17.00-17.50			**Independent Learning**	**Lecture** Entropy, Free Energy, Enthalpy, Boltzmann Distribution *Akif Maharramov*	**Independent Learning**

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

COMMITTEE II - GASTROINTESTINAL SYSTEM and METABOLISM
IV. WEEK / 05 – 09 Dec 2016

	Monday 05-Dec-2016	Tuesday 06-Dec-2016	Wednesday 07-Dec-2016	Thursday 08-Dec-2016	Friday 09-Dec-2016
09.00- 09.50	**Lecture** Individual Amino acids (Synthesis, Degradation) *İnci Özden*	**Lecture** Regulation of Feeding and Obesity *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Overview of Metabolism *İnci Özden*	**Laboratory / Histology Assessment (DOPs)** Histologyof Gastrointestinal System II	**Lecture** Development of Gastrointestinal Tract; Alimentary Canal & Glands *Alev Cumbul*
10.00- 10.50	**Lecture** Liver *Yüksel Aydar*	**Lecture** Regulation of Feeding and Obesity *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Overview of Metabolism *İnci Özden*	**Group A** / **Group B I.L**	**Lecture** Congenital Anomalies of Gastrointestinal Tract *Alev Cumbul*
11.00- 11.50	**Lecture** Biliary system *Yüksel Aydar*	**Lecture** Urea Cycle *İnci Özden*	**Lecture** Photosynthesis and Respiration, Spectrum of Photo-biological Effects *Akif Maharramov*	**Group A I.L** / **Group B**	**Lecture** Body Temperature and Its Regulation *Bayram Yılmaz & Mehtap Kaçar*
12.00- 12.50	**Lecture** The Pancreas and Spleen *Yüksel Aydar*	**Lecture** Urea Cycle *İnci Özden*	**Lecture** Photosynthesis and Respiration, Spectrum of Photo-biological Effects *Akif Maharramov*		**Lecture** Body Temperature and Its Regulation *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Laboratory / Anatomy** Liver and Biliary System *Yüksel Aydar & Sinem Gergin* **Group B** / **Group A I.L**	**Lecture** Computer Applications of Tests of Significance *E.Çiğdem Kaspar*	**Lecture** Nutrigenomics *Soner Doğan*	**Lecture** Metabolic interrelationships and Provision of Tissue Fuels *İnci Özden*	**ICP** CSL: Nasogastric Administration GroupIII *ÖzlemTanrıöver&Arzu Akalın*
15.00- 15.50	**Group B I.L** / **Group A**	**Lecture** Selection of Statistical Tests to Use in a Study *E.Çiğdem Kaspar*	**Lecture** Nutrigenomics *Soner Doğan*	**Lecture** Metabolic interrelationships and Provision of Tissue Fuels *İnci Özden*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D**
16.00- 16.50	**Laboratory / Anatomy** Pancreas and Spleen *Yüksel Aydar & Sinem Gergin* **Group A** / **Group B I.L**	**Lecture** Interrelationship of Biology of Major Organs *Soner Doğan*	**Independent Learning**	**Lecture** Glands Associated with the Digestive System;Pancreas&APUDs *Alev Cumbul*	
17.00-17.50	**Group B** / **Group A I.L**	**Lecture** Interrelationship of Biology of Major Organs *Soner Doğan*	**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 - GASTROINTESTINAL SYSTEM and METABOLISM
V. WEEK / 12 – 16 Dec 2016

	Monday 12-Dec-2016	Tuesday 13-Dec-2016	Wednesday 14-Dec-2016	Thursday 15-Dec-2016	Friday 16-Dec-2016
09.00- 09.50	**Lecture** Clinical And Topographic Anatomy Of The Anterior Abdominal Wall *Yüksel Aydar*	**Lecture** Citric acid Cycle *İnci Özden*	**Lecture** Purine and Pyrimidine Metabolism *İnci Özden*	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Lecture** Abdominal Cavity And Peritoneum *Yüksel Aydar*	**Lecture** Citric acid Cycle *İnci Özden*	**Lecture** Purine and Pyrimidine Metabolism *İnci Özden*		
11.00- 11.50	**Lecture** Abdominal Cavity and Peritoneum *Yüksel Aydar*	**Lecture** Physiology of Gastrointestinal Disorders *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Mucosal Immunity *Gülderen Yanıkkaya. Demirel*		
12.00- 12.50	**Lecture** Nerves and Vasculature of The Abdominal Cavity *Yüksel Aydar*	**Lecture** Physiology of Gastrointestinal Disorders *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Mucosal Immunity *Gülderen Yanıkkaya. Demirel*		
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Review of The Digestive System *Yüksel Aydar*	**Lecture** Xenobiotic Metabolism *İnci Özden*	**Laboratory / Histology Lab** **Make up Session** **Group B-Group A**	**Independent Learning**	**Independent Learning**
15.00- 15.50	**Lecture** Review of The Digestive System *Yüksel Aydar*	**Lecture** Xenobiotic Metabolism *İnci Özden*			
16.00- 16.50	**Laboratory / Anatomy** Abdominal Cavity and Peritoneum *Yüksel Aydar & Sinem Gergin* **Group B** / **Group A I.L**	**Laboratory / Biostatistics** StatisticalApplication on SPSS *E. Çiğdem Kaspar*	**Lecture** Interrelationship of Biology of Major Organs *Soner Doğan*		
17.00-17.50	**Group B I.L** / **Group A**	**Group A, C I.L** / **Group B**	**Lecture** Interrelationship of Biology of Major Organs *Soner Doğan*		

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

COMMITTEE II - GASTROINTESTINAL SYSTEM and METABOLISM
VI. WEEK / 19 – 23 Dec 2016

	Monday 19-Dec-2016	Tuesday 20-Dec-2016	Wednesday 21-Dec-2016	Thursday 22-Dec-2016	Friday 23-Dec-2016
09.00- 09.50	Independent Learning	Assessment Session (Practical Exam)	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50					Assessment Session Committee II (MCQ-EMQ)
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Assessment Session (Practical Exam)	Independent Learning	Independent Learning	Assessment Session Biostatistics (MEQ)
15.00- 15.50					
16.00- 16.50					**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Committee II Program *Secretary of Commitee*
17.00-17.50					

COMMITTEE III - ENDOCRINE and UROGENITAL SYSTEMS
DISTRIBUTION of LECTURE HOURS
December 26, 2016 – February 17, 2017
COMMITTEE DURATION: 6 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MED 203	**BASIC MEDICAL SCIENCES II**	**92**	**19**	**110**
	DISCIPLINE			
	ANATOMY	14	2GrX5H	19
	BIOCHEMISTRY	26	3GrX3H	29
	HISTOLOGY & EMBRYOLOGY	13	2GrX5H	18
	MEDICAL BIOLOGY	6	0	6
	PHYSIOLOGY	31	3GrX6H	37
	SCIENTIFIC PROJECTS-II	2	0	2
MED 202	**INTRODUCTION TO CLINICAL PRACTICE- II**	3	6	9

Coordination Committee	**Head**	İnci ÖZDEN, PhD, Prof.
	Secretary	Deniz KIRAÇ, PhD Assist. Prof.
	Member	Alev CUMBUL, PhD Assist. Prof.
	Member	Soner DOĞAN, PhD Assoc. Prof

COMMITTEE III - ENDOCRINE and UROGENITAL SYSTEMS
LECTURERS
December 26, 2016 – February 17, 2017

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	**LECTURERS**
ANATOMY	Yüksel AYDAR, PhD Prof. ERDEM SÖZTUTAR, MD, Lecturer Aikaterina PANTELİ, MD. Lecturer LAB: Sinem GERGIN, MD
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof. LAB: Jale Çoban, MD. Prof. LAB: Müge KOPUZ, PhD.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof. Aylin YABA UÇAR PhD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMIREL, PhD Assoc. Prof.
MEDICAL BIOLOGY	Turgay İŞBIR, PhD Prof. Soner DOĞAN, PhD Assoc. Prof. Deniz KIRAÇ, PhD Assist. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof Mehtap KAÇAR, MD PhD Assoc. Prof
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMIREL, MD, PhD Assoc. Prof.

MED 202 INTRODUCTION TO CLINICAL PRACTICE II	
DISCIPLINE	**LECTURERS**
CLINICAL SKILLS LAB	Güldal İZBIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assoc. Prof. A.Arzu AKALIN, MD Assist. Prof. Serdar ÖZDEMİR, MD, Ph.D, Assist. Prof.

COMMITTEE III - ENDOCRINE and UROGENITAL SYSTEMS
AIM and LEARNING OBJECTIVES

AIMS

1. *To convey* knowledge about biological, anatomical, embryological, histological, physiological and biochemical properties of endocrine and urogenital system.

LEARNING OBJECTIVES

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

1.0. describe biology of gonadal development and genetic differentiation.
2.0 In urogenital system, for male and female genital system organs, kidney, ureter, bladder, urethra, pelvis and perineum;
- 2.1 describe its anatomy,
- 2.2 associate with adjacent tissue and organs,
- 2.3 explain their functional and clinical reflections.

3.0 In endocrine system, for thyroid, parathyroid, suprarenal gland and thymus,
- 3.1 describe its anatomy,
- 3.2 associate with adjacent tissue and organs,
- 3.3 explain their functional and clinical reflections.

4.0 For endocrine and urogenital system;
- 4.1 classify embryological origins,
- 4.2 explain developmental stages,
- 4.3 describe histological properties,
- 4.4 associate the relation between birth abnormalities and developmental processes.

5.0. In endocrine system;
- 5.1. describe endocrine, paracrine and neuroendocrine secretion,
- 5.2. explain the regulatory role of hypothalamus and pituitary gland,
- 5.3. list secretions and functions of endocrine glands and organs.

6.0. In urinary system;
- 6.1. explain renal function and structure of nephrones,
- 6.2. explain renal blood flow and mechanisms of urine production,
- 6.3. explain liquid-electrolyte and acid-base equilibrium.

7.0. In genital system;
- 7.1. explain reproductive hormones and their functions in men and women,
- 7.2. describe changes in the maternal body in pregnancy and lactation.

8.0. For hormones;
- 8.1. classify according to mechanisms of action,
- 8.2. explain their effects and relation to each other.

9.0. explain biochemical functions of vitamins and elements.

COMMITTEE III - ENDOCRINE and UROGENITAL SYSTEMS

COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER / INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	IE	TOTAL
3.0-5.0	ANATOMY	Dr. Y. Aydar	14	5	5	**24**
7.0- 9.0	BIOCHEMISTRY	Dr. İ. Özden	24	8	8	**40**
4	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu Dr. A. Cumbul	4 10	1 4	1 4	**6** **18**
1	MEDICAL BIOLOGY	Dr. T.İşbir Dr. D. Kıraç	2 1	1 1	1 1	**4** **3**
5.0-7.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar	25	10	10	**45**
		TOTAL	**80**	**30/200#**	**30/200#**	**140**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EMQ POINTS
		CE
3.0-5.0	ANATOMY	1
7.0- 9.0	BIOCHEMISTRY	4
4	HISTOLOGY & EMBRYOLOGY	1
5.0-7.0	PHYSIOLOGY	4
	TOTAL	**10**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB ASSESSMENT POINTS	
		DOPS	LPE
3.0-5.0	ANATOMY	-	25
7.0- 9.0	BIOCHEMISTRY	-	15
4	HISTOLOGY & EMBRYOLOGY	25	-
5.0-7.0	PHYSIOLOGY	-	35
	TOTAL	**100**	

Total number of MCQs are 80, equal to 90 pts (each question has 1,125 pts).
EMQs have value equal to 10 pts (each question has equal value).
Total value of DOPS and LPE are equal to 100 points

Commitee Score (CS) = 90% CE (MCQ+EMQ) + 10% (DOPS+LPE)

MCQ: Multiple Choice Question
EMQ: Extending Matching Question
MEQ: Modified Essay Questions
LPE: Laboratory Practical Exam
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
pts: Points
In FE and ICE, **30** out of 200 FE and ICE MCQs will be from Committee I (Each question is equal value)

COMMITTEE III - ENDOCRINE and UROGENITAL SYSTEMS
I. WEEK /26.Dec.2015-30.Dec.2016

	Monday 26-Dec-2016	Tuesday 27-Dec-2016	Wednesday 28-Dec-2016	Thursday 29-Dec-2016	Friday 30-Dec-2016
09.00- 09.50	**Introductory Session** Introduction to Committee III Secretary of Committee III	**Independent Learning**	**Lecture** Urine Formation: Tubular Processing *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory/Physiology** Glomerular Filtration (Interactive Simulation) *Bayram Yılmaz & Mehtap Kaçar*	**Independent Learning**
10.00- 10.50	**Lecture** Body Fluids and Functions of Kidneys *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Micturition *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Urine Formation: Tubular Processing *Bayram Yılmaz & Mehtap Kaçar*	**Group A** / **Group B, C I.L**	
11.00- 11.50	**Lecture** Introduction to Urinary System *Yüksel Aydar*	**Lecture** Urine Formation and Renal Blood Flow *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Histology of Urinary System; General Aspect, Kidney Nephron *Ünal Uslu*	**Laboratory/Physiology** Glomerular Filtration (Interactive Simulation) *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Fluid and Electrolyte Balance *Bayram Yılmaz & Mehtap Kaçar*
12.00- 12.50	**Lecture** The Kidneys *Yüksel Aydar*	**Lecture** Urine Formation and Renal Blood Flow *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Histology of Urinary System; Excreatory Passage *Ünal Uslu*	**Group A, C I.L** / **Group B**	**Lecture** Fluid and Electrolyte Balance *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** The Kidneys *Yüksel Aydar*	**Lecture** Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors *İnci Özden*	**Laboratory/ Biochemistry** Urine Analysis *Jale Çoban & Müge Kopuz* **Group A**	**Lecture** Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors *İnci Özden*	**Independent Learning**
15.00- 15.50	**Lecture** Urinary TractaAnd Suprarenal Glands *Yüksel Aydar*	**Lecture** Hormones of Hypothalamus and Pituitary *İnci Özden*		**Lecture** Hormones of Hypothalamus and Pituitary *İnci Özden*	
16.00- 16.50	**Laboratory/Anatomy** Urinary System *Yüksel Aydar & Sinem Gergin* **Group A** / **Group B Independent Learning**	**Laboratory/ Physiology:** Glomerular Filtration (Interactive Simulation) *Bayram Yılmaz & Mehtap Kaçar* **Group A,B ı.l** / **Group C**	**Independent Learning**	**Independent Learning**	
17.00-17.50	**Group A ı.l** / **Group B**				

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

COMMITTEE III - ENDOCRINE and UROGENITAL SYSTEMS
II. WEEK /02-06.Jan.2017

	Monday 02-Jan-2017	Tuesday 03-Jan-2017	Wednesday 04-Jan-2017	Thursday 05-Jan-2017	Friday 06-Jan-2017
09.00- 09.50	**Independent Learning**	**Lecture** Histology of Endocrine System; General Aspect, Hypothalamus, Epiphysis *Alev Cumbul*	**Lecture** Pituitary Gland and Hypothalamic Control *Bayram Yılmaz & Mehtap Kaçar*	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Lecture** Introduction to the Genital Systems *Yüksel Aydar*	**Lecture** Histology of Endocrine System; Hypophysis *Alev Cumbul*	**Lecture** Posterior Pituitary Hormones *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory/Biochemistry** Urine Analysis *Jale Çoban & Müge Kopuz*	
11.00- 11.50	**Lecture** Male genital organs *Yüksel Aydar*	**Lecture** Regulation of Acid-Base Balance *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Hormones of Hypothalamus and Pituitary *İnci Özden*	**Group A, C Independent Learning** / **Group B**	**Lecture** Histology of Endocrine System; Thyroid and Parathyroid and Suprarenal Glands *Alev Cumbul*
12.00- 12.50	**Lecture** Male Genital Organs *Yüksel Aydar*	**Lecture** Regulation of Acid-Base Balance *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Hormones of Hypothalamus and Pituitary *İnci Özden*		**Lecture** Physiology of Growth Hormone *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Laboratory/Anatomy** Male Genital Organs *Yüksel Aydar & Sinem Gergin* **Group B** / **Group A I.L**	**Lecture** Introduction to Endocrinology *Bayram Yılmaz & Mehtap Kaçar*	**Independent Learning**	**Lecture** Thyroid Hormones *İnci Özden*	**ICP** **CSL:** Bladder Catheterization *Hülya Akan / Özlem Tanrıöver*
15.00- 15.50	**Group B Independent Learning** / **Group A**	**Lecture** Hormones of Hypothalamus and Pituitary *İnci Özden*		**Lecture** Thyroid Hormones *İnci Özden*	**Group A I.L** / **Group B ECE-FHC** / **Group C ECE-Yeditepe University Hospital** / **Group D ICP**
16.00- 16.50	**Independent Learning**	**Lecture** Hormones of Hypothalamus and Pituitary *İnci Özden*		**ICP-ECE Introduction Session** *Özlem Tanrıöver*	
17.00-17.50		**Independent Learning**			**Independent Learning**

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

COMMITTEE III - ENDOCRINE and UROGENITAL SYSTEMS
III. WEEK /09-13.Jan.2017

	Monday 09-Jan-2017	Tuesday 10-Jan-2017	Wednesday 11-Jan-2017	Thursday 12-Jan-2017	Friday 13-Jan-2017
09.00- 09.50	**Lecture** Evidence Based Approach in Scientific Research *Gülderen Yanıkkaya Demirel*	**Lecture** Hormones, Regulating Calcium Metabolism *İnci Özden*	**Lecture** Insulin, Glucagon *İnci Özden*	**Laboratory/ Hist.& Embr.: Assessment (DOPs)** Histology of Urinary & Endocrine System	**Independent Learning**
10.00- 10.50	**Lecture** Evidence Based Approach in Scientific Research *Gülderen Yanıkkaya Demirel*	**Lecture** PTH, Calcitonin, Calcitriol *İnci Özden*	**Lecture** Insulin, Glucagon *İnci Özden*	**Group A** / **Group B Independent Learning**	
11.00- 11.50	**Lecture** Hormones of Adrenal Cortex, Mineralocorticoids, Glucocorticoids *İnci Özden*	**Lecture** Thyroid Metabolic Hormones *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Regulation of Calcium & Phosphate Metabolism and Bone Formation *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory/ Hist.& Embr.: Assessment (DOPs)** Histology of Urinary & Endocrine System	**Lecture** Histology of The Female Genital System; Ovaries *Alev Cumbul*
12.00- 12.50	**Lecture** Hormones of Adrenal Cortex, Mineralocorticoids, Glucocorticoids *İnci Özden*	**Lecture** Thyroid Metabolic Hormones *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Regulation of Calcium & Phosphate Metabolism and Bone Formation *Bayram Yılmaz & Mehtap Kaçar*	**Group B** / **Group A Independent Learning**	**Lecture** Histology of The Female Genital System; Conducting Part *Alev Cumbul*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Female Genital Organs *Yüksel Aydar*	**Laboratory/ Biochemistry** Urine Analysis *Jale Çoban & Müge Kopuz* **Group C**; **Laboratory/Physiology** Metabolic Rate (Interactive Simulation) *Bayram Yılmaz & Mehtap Kaçar* **Group A**; **Group B I.L**	**Laboratory/Physiology** Metabolic Rate (Interactive Simulation) *Bayram Yılmaz& Mehtap Kaçar*	**Lecture** Insulin, Glucagon *İnci Özden*	**ICP** **CSL:** Bladder Catheterization *Hülya Akan/ Arzu Akalın*
15.00- 15.50	**Lecture** Female Genital Organs *Yüksel Aydar*		**Group A, C Independent Learning** / **Group B**	**Lecture** Insulin, Glucagon *İnci Özden*	**Group A ECE-Yeditepe University Hospital**; **Group B Independent Learning**; **Group C ICP**; **Group D ECE-FHC**
16.00- 16.50	**Laboratory/ Anatomy:** Female Genital Organs *Yüksel Aydar & Sinem Gergin* **Group B I.L** / **Group A**		**Group C** / **Group A,B Independent Learning**	**Lecture** Histology of The Male Genital System; Testis *Ünal USlu*	
17.00-17.50	**Group B** / **Group A I.L**	**Independent Learning**		**Lecture** Histology of The Male Genital System; Excreatory Parts *Ünal USlu*	**Independent Learning**

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

MIDTERM BREAK 16 JAN 2017 - 27 JAN 2017

COMMITTEE III - ENDOCRINE and UROGENITAL SYSTEMS
IV. WEEK /30.Jan.-03.Feb.2017

	Monday 30-Jan-2017	Tuesday 31-Jan-2017	Wednesday 01-Feb-2017	Thursday 02-Feb-2017	Friday 03-Feb-2017
09.00- 09.50	**Lecture** Development of Urinary System and Anomalies *Alev Cumbul*	**Lecture** Elements *İnci Özden*	**Lecture** Vitamins *İnci Özden*	**Laboratory/ Physiology** Dissection & Examination of Endocrine *Bayram Yılmaz & Mehtap Kaçar*	**Independent Learning**
10.00- 10.50	**Lecture** Development of Genital System; General Aspect *Alev Cumbul*	**Lecture** Elements *İnci Özden*	**Lecture** Vitamins *İnci Özden*	**Group C** / **Group A,B I.L**	**Lecture** Pineal Gland and Melatonin *Bayram Yılmaz & Mehtap Kaçar*
11.00- 11.50	**Lecture** Nerves of the Pelvis *Yüksel Aydar*	**Lecture** Insulin, Diabetes Mellitus *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Adrenocortical Hormones *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory/ Physiology** Dissection & Examination of Endocrine *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Male Reproductive Physiology *Bayram Yılmaz & Mehtap Kaçar*
12.00- 12.50	**Lecture** Vasculature of the Pelvis *Yüksel Aydar*	**Lecture** Insulin, Diabetes Mellitus *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Adrenocortical Hormones *Bayram Yılmaz & Mehtap Kaçar*	**Group A** / **Group B, C I.L**	**Lecture** Male Reproductive Physiology *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Vitamins *İnci Özden*	Invited Speaker	**Lecture** Development of Male Genital System and Anomalies *Alev Cumbul*	**Laboratory/ Physiology** Dissection & Examination of Endocrine *Bayram Yılmaz & Mehtap Kaçar*	**ICP** **CSL:** Bladder Catheterization Group II *Hülya Akan / Özlem Tanrıöver*
15.00- 15.50	**Lecture** Vitamins *İnci Özden*		**Lecture** Development of Female Genital System and Anomalies *Alev Cumbul*	**Group A,C I.L** / **Group B**	**Group A ECE-FHC** / **Group B ICP** / **Group C Independent Learning** / **Group D ECE-Yeditepe University Hospital**
16.00- 16.50	**Laboratory/ Anatomy:** Nerves and vasculature of the Pelvis *Yüksel Aydar & Sinem Gergin* **Group A Independent Learning** / **Group B**	**Lecture** Biology of Endocrine System *Deniz Kıraç*	**Independent Learning**	**Elective Coursse I**	
17.00-17.50	**Group A** / **Group B Independent Learning**	**Lecture** Biology of Endocrine System *Deniz Kıraç*			**Independent Learning**

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

COMMITTEE III - ENDOCRINE and UROGENITAL SYSTEMS
V. WEEK /6-10.Feb.2017

	Monday 06-Feb-2017	Tuesday 07-Feb-2017	Wednesday 08-Feb-2017	Thursday 09-Feb-2017	Friday 10-Feb-2017
09.00- 09.50	**Independent Learning**	**Lecture** Review of the Urinary System *Yüksel Aydar*	**ICP Midterm Exam**	**Laboratory/ Hist. & Embr. Assessment (DOPs)** Histology of Genital System	**Lecture** Fetal and Neonatal Physiology *Bayram Yılmaz*
10.00- 10.50	**Lecture** Perineum and Ischiorectal Fossa *Yüksel Aydar*	**Lecture** Review of the Genital Systems *Yüksel Aydar*		**Group B I.L** / **Group A**	**Lecture** Endocrine Disruptors *Bayram Yılmaz*
11.00- 11.50	**Lecture** Female Reproductive Physiology *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Elements *İnci Özden*		**Laboratory/ Hist. & Embr** Make Up Session **Group A - Group B**	**Lecture** Biology of Sexual Differentiation and Development *Turgay İsbir*
12.00- 12.50	**Lecture** Female Reproductive Physiology *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Elements *İnci Özden*			**Lecture** Biology of Sexual Differentiation and Development *Turgay İsbir*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Biology of Sexual Differentiation and Development *Turgay İsbir*	**Laboratory/ Hist. & Embr. Assessment (DOPs)** Histology of Genital System	**ICP Midterm Exam**	**Lecture** Pregnancy and Lactation *Bayram Yılmaz & Mehtap Kaçar*	**ICP** **CSL:** Bladder Catheterization *H. Akan/ A. Akalın*
15.00- 15.50	**Lecture** Biology of Sexual Differentiation and Development *Turgay İsbir*	**Group B** / **Group A I.L**		**Lecture** Pregnancy and Lactation *Bayram Yılmaz & Mehtap Kaçar*	**Group A ICP** / **Group B ECE-Yeditepe University Hospital** / **Group C ECE-FHC** / **Group D Independent Learninng**
16.00- 16.50	**Laboratory/ Anatomy:** Perineum and Ischiorectal Fossa *Yüksel Aydar & Sinem Gergin* **Group B IL** / **Group A**	**Independent Learning**		**Elective courses II**	
17.00-17.50	**Group B** / **Group A IL**				**Independent Learning**

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

COMMITTEE III - ENDOCRINE and UROGENITAL SYSTEMS
VI. WEEK /13-17.Feb.2017

	Monday 13-Feb-2017	Tuesday 14-Feb-2017	Wednesday 15-Feb-2017	Thursday 16-Feb-2017	Friday 17-Feb-2017
09.00- 09.50	Independent Learning	Assessment Session (Practical Exam)	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50					Assessment Session Committee III (MCQ-EMQ)
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Assessment Session (Practical Exam)	Independent Learning	Independent Learning	**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Committee III Program *Secretary of Committee III*
15.00- 15.50					
16.00- 16.50					Independent Learning
17.00-17.50					

COMMITTEE IV - NERVOUS SYSTEM
DISTRIBUTION of LECTURE HOURS

February 20 – April 07, 2017

COMMITTEE DURATION: 7 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MED 203	**BASIC MEDICAL SCIENCES II**	**121**	**26**	**147**
	DISCIPLINE			
	ANATOMY	42	2Grx14H	56
	BIOPHYSICS	14	0	14
	HISTOLOGY & EMBRYOLOGY	12	2Grx3H	15
	MEDICAL BIOLOGY	4	0	4
	PHARMACOLOGY	11	2GRx1H	12
	PHYSIOLOGY	36	3Grx8H	44
	SCIENTIFIC PROJECTS-II	2	0	2

MED 202	**INTRODUCTION TO CLINICAL PRACTICE- II**	3	12	15

Coordination Committee	**Head**	Mehtap KAÇAR, PhD, MD, Assoc. Prof.
	Secretary	Deniz KIRAÇ, PhD Assist. Prof.
	Member	Ünal USLU, MD, Assoc. Prof.
	Member	Serdar ÖZDEMİR, PhD, MD, Assist. Prof.

COMMITTEE IV- NERVOUS SYSTEM
LECTURERS
February 20 – April 07, 2017

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	**LECTURERS**
ANATOMY	Yüksel AYDAR, PhD Prof.* ERDEM SÖZTUTAR, MD, Lecturer Aikaterina PANTELİ, MD. Lecturer LAB. Sinem GERGIN, MD
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof. Aylin YABA UÇAR PhD Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof. Soner DOĞAN, PhD Assoc. Prof. Deniz KIRAÇ, PhD Assist. Prof.
PHARMACOLOGY	Ece GENÇ, PhD Prof. Ferda KALEAĞASIOĞLU, MD Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR, MD PhD Assoc. Prof. Burcu GEMİCİ, , PhD Assist. Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMIREL, MD PhD Assoc. Prof.

MED 202 INTRODUCTION TO CLINICAL PRACTICE II	
DISCIPLINE	**LECTURERS**
CLINICAL SKILLS LAB	Güldal İZBIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assoc. Prof. A.Arzu AKALIN, MD Assist. Prof. Serdar ÖZDEMİR, MD, Ph.D, Assist. Prof.

COMMITTEE IV - NERVOUS SYSTEM
AIM and LEARNING OBJECTIVES

AIMS

1. To convey basic knowledge on biophysical, biological, anatomical, embryological, histological, physiological and biochemical properties of nervous system,
2. To convey knowledge on histology and development of central and peripheral nervous system and special senses,
3. To convey knowledge on biological basics of vision, hearing and taste,
4. To convey basic knowledge about pharmacology,
5. To convey knowledge about the drugs effecting nervous system.

LEARNING OBJECTIVES

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

1.0. describe biophysical basis of nervous system.
2.0. describe biology of nervous system.
3.0. In nervous system;
    3.1. describe the anatomy of cerebrum, cerebellum, meninges, brain stem, cranial nerves and spinal cord,
    3.2. describe limbic and autonomic nervous system,
    3.3. describe the anatomy of structures forming eyes and ears,
    3.4. describe descending and ascending pathways,
    3.5. associate with adjacent tissue and organs,
    3.6. explain functional and clinical reflections.
4.0. For central and peripheral nervous system and special senses;
    4.1. classify embryological origins,
    4.2. explain developmental stages,
    4.3. describe histological properties.
5.0. explain nervous conduction, ion channels and intracellular, extracellular ion concentration differences.
6.0. describe neuron, neuroglia, neurotransmitters and nerve fibers.
7.0. explain the synthesis and inactivation of neurotransmitters.
8.0. describe the energy mechanisms of brain.
9.0. In the nervous system;
    9.1. explain parts and functions of brain cortex,
    9.2. describe sensorial transmission pathways and special senses,
    9.3. describe control of motor function (cortex, cerebellum, basal ganglions and brain stem),
    9.4. describe functions of hypothalamus.
10.0. explain the relationship of learning-memory with hippocampus.
11.0. For brain waves and reflexes;
    11.1. describe,
    11.2. explain how they are measured in clinics.
12.0. explain biochemical basics of vision, hearing and taste senses.
13.0. In drug metabolism;
    13.1. explain mechanisms and factors affecting absorption,
    13.2. explain mechanisms and factors affecting distribution,
    13.3. explain mechanisms and factors affecting excretion.
    13.4. For drug pharmacokinetics;
    13.5. explain clinical importance,
14.0. analyze examples.

COMMITTEE IV - NERVOUS SYSTEM
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	IE	TOTAL
3.0-12.0	ANATOMY	Dr. Y. Aydar Dr. A. Panteli	35	14	14	**63**
1	BIOPHYSICS	Dr. B.G.Tuna	10	5	5	**20**
4	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu	3	1	1	**5**
		Dr. A. Cumbul	7	3	3	**13**
2	MEDICAL BIOLOGY	Dr. T.İsbir	2	1	1	**4**
13.0-14.0	PHARMACOLOGY	Dr. E. Genç	1	3	3	**7**
		Dr. F. Kaleağasıoğlu	5	1	1	**7**
5.0-11.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar	27	12	12	**51**
	TOTAL		**90**	**40/200****	**40/200****	**170**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EMQ POINTS
		CE
3.0,12.0	ANATOMY	4
1	BIOPHYSICS	1
4	HISTOLOGY & EMBRYOLOGY	1
13.0-14.0	PHARMACOLOGY	1
5.0-11.0	PHYSIOLOGY	**3**
	TOTAL	**10**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB ASSESSMENT POINTS
		LPE
3.0,12.0	ANATOMY	50
4	HISTOLOGY & EMBRYOLOGY	15
13.0-14.0	PHARMACOLOGY	5
5.0-11.0	PHYSIOLOGY	30
	TOTAL	**100**

Total number of MCQs are 90, equal to 90 pts (each question has 1 pts).
EMQs have value equal to 10 pts (each question has equal value).
Total value of DOPS and LPE are equal to 100 points

Commitee Score (CS) = 90% CE (MCQ+EMQ) + 10% (DOPS+LPE)

MCQ: Multiple Choice Question
EMQ: Extending Matching Question
MEQ: Modified Essay Questions
LPE: Laboratory Practical Exam
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
pts: Points

In FE and ICE, **40** out of 200 FE and ICE MCQs will be from Committee I (Each question is equal value)

COMMITTEE IV - NERVOUS SYSTEM
I. WEEK / 20 – 24 Feb 2017

	Monday 20-Feb-2017	Tuesday 21-Feb-2017	Wednesday 22-Feb-2017	Thursday 23-Feb-2017	Friday 24-Feb-2017
09.00- 09.50	**Introductory Session** Introduction to Committee IV Secretary of Committee IV	**Lecture** Synapse and Neurotransmitters *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Cutaneous Senses *Bayram Yılmaz & Mehtap Kaçar*	**Independent Learning**	**Lecture** Physiology of Pain *Bayram Yılmaz & Mehtap Kaçar*
10.00- 10.50	**Lecture** Introduction to Neuroanatomy *Yüksel Aydar*	**Lecture** Synapse and Neurotransmitters *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Cutaneous Senses *Bayram Yılmaz & Mehtap Kaçar*		**Lecture** Physiology of Pain *Bayram Yılmaz & Mehtap Kaçar*
11.00- 11.50	**Lecture** Spinal Cord *Aikaterini Panteli*	**Lecture** Peripheral Nervous System *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Biophysical Modeling of Neurons & Synapses *Bilge G. Tuna*	**Laboratory / Anatomy** Spinal Cord *Aikaterini Panteli & Sinem Gergin* **Group B IL** / **Group A**	**Lecture** Congenital Anomalies of Nervous System *Alev Cumbul*
12.00- 12.50	**Lecture** Spinal Cord *Aikaterini Panteli*	**Program Improvements Sessions**	**Lecture** Biophysical Properties of Neuron Membrane & Ion Channels *Bilge G. Tuna*	**Group B** / **Group A IL**	**Lecture** Histology of Sensory Organs; Eye; Fibrous and Vascular Coat *Alev Cumbul*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Brainstem *Yüksel Aydar*	**Lecture** Histology of Central Nervous System; PNS, Meninges and Spinal Chord *Unal Uslu*	**Lecture** Development of Central Nervous System; Early Stages *Alev Cumbul*	**Lecture** Resting Membrane Potential: Ionic Balance Equations- (Nernst Equation, Goldman-Hodgkin Equation) *Bilge G. Tuna*	**ICP** **CSL:** Intramuscular / Intradermal / Subcutan Injection Ö.Tanrıöver/ A. Akalın
15.00- 15.50	**Lecture** Organization of the Nervous System *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Histology of Central Nervous System; Brain, Cerebellum *Unal Uslu*	**Lecture** Development of Central Nervous System; Late Stages *Alev Cumbul*	**Lecture** Membrane Electrical Model: Impedance of Membrane, Gray Matter, White Matter and Cerebrospinal Fluid *Bilge G. Tuna*	**Group A Independent Learning** / **Group B ECE-FHC** / **Group C ECE-Bağdat Cad. Outpatient Clinic** / **Group D ICP**
16.00- 16.50	**Lecture** Neuron and Neuroglia *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Sensory Receptors and Pathways *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Biology of Nervous System *Turgay İsbir*	**Elective courses III**	
17.00-17.50	**Lecture** Brainstem *Yüksel Aydar*	**Independent Learning**	**Lecture** Biology of Nervous System *Turgay İsbir*		**Independent Learning**

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

COMMITTEE IV - NERVOUS SYSTEM
II. WEEK / 27 Feb – 3 March 2017

	Monday 27-Feb-2017	Tuesday 28-Feb-2017	Wednesday 01-March-2017	Thursday 02-March-2017	Friday 03-March-2017
09.00- 09.50	**Lecture** Brainstem *Yüksel Aydar*	**Lecture** Physiology of Hearing *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Histology of Sensory Organs; Eye; Nervous Coat and Appendix *Alev Cumbul*	**Laboratory / Physiology** Hearing Test *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Physiology of Pain *Bayram Yılmaz & Mehtap Kaçar*
10.00- 10.50	**Lecture** Cranial Nerves I-III *Yüksel Aydar*	**Lecture** The cCrebellum *Aikaterini Panteli*	**Lecture** Histology of Sensory Organs; Ear *Alev Cumbul*	**Group A, C Independent Learning** / **Group B**	**Lecture** Physiology of Pain *Bayram Yılmaz & Mehtap Kaçar*
11.00- 11.50	**Lecture** Cranial Nerves IV-VI *Yüksel Aydar*	**Lecture** Diencephalon: Thalamus *Aikaterini Panteli*	**Lecture** Physiology of Hearing *Bayram Yılmaz & Mehtap Kaçar*	**Group C** / **Group A, B Independent Learning.**	**Lecture** Asymmetrical Distribution & Transportation of Ions *Bilge G. Tuna*
12.00- 12.50	**Lecture** Cranial Nerves VII-IX *Yüksel Aydar*	**Lecture** Diencephalon: Pituitary and Pineal glands *Aikaterini Panteli*	**Lecture** Physiology of Vision *Bayram Yılmaz & Mehtap Kaçar*		**Lecture** Asymmetrical Distribution & Transportation of Ions *Bilge G. Tuna*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Cranial Nerves X-XII *Yüksel Aydar*	**Laboratory / Anatomy** Cranial Nerves *Yüksel Aydar&Sinem Gergin* **Group A** / **Group B IL**	**Lecture** Physiology of Vision *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Excitability, Rheobase (threshold), Chronaxie and Their Importance in Evaluation of Excitability *Bilge G. Tuna*	**Lecture** Physiology of Vision *Bayram Yılmaz & Mehtap Kaçar*
15.00- 15.50	**Lecture** The Cerebellum *Aikaterini Panteli*	**Group A IL** / **Group B**	**Lecture** Auditory System Biophysics and Functioning *Bilge G. Tuna*	**Lecture** Brain Function and Electrical Activity-Electroencephalography. Biofeedback *Bilge G. Tuna*	**Lecture** Physiology of Vision *Bayram Yılmaz & Mehtap Kaçar*
16.00- 16.50	**Laboratory / Anatomy** Brainstem *Yüksel Aydar & Sinem Gergin* **Group B** / **Group A IL**	**Laboratory / Anatomy** Cerebellum and Diencephalon *Aikaterini Panteli Sinem Gergin* **Group A** / **Group B IL**	**Lecture** Waves, Energy, Intensity & Pressure of Sound Waves *Bilge G. Tuna*	**Elective Courses IV**	**Laboratory / Physiology** Hearing Test *Bayram Yılmaz & Mehtap Kaçar*
17.00-17.50	**Group B IL** / **Group A**	**Group A IL** / **Group B**	**Lecture** Telencephalon *Aikaterini Panteli*		**Group B, C Independent Learning** / **Group A**

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

COMMITTEE IV - NERVOUS SYSTEM
III. WEEK / 6 –10 March 2017

	Monday 06-March-2017	Tuesday 07-March-2017	Wednesday 08-March-2017	Thursday 09-March-2017	Friday 10-March-2017
09.00- 09.50	**Lecture** Telencephalon *Aikaterini Panteli*	**Lecture** Descending Pathways of the CNS *Yüksel Aydar*	**Independent Learning**	**Independent Learning**	**Lecture** Histology of Skin and Appendage; Epidermis, Dermis, Appendage *Alev Cumbul*
10.00- 10.50	**Lecture** The Basal Ganglia *Yüksel Aydar*	**Lecture** Introduction to the Autonomic Nervous System *Yüksel Aydar*	**Lecture** How to Prepare a Scientific Report *Gülderen Yanıkkaya Demirel*		**Lecture** Development of Skin and Appendage *Alev Cumbul*
11.00- 11.50	**Lecture** The Basal Ganglia *Yüksel Aydar*	**Lecture** Sympathetic Nervous System *Yüksel Aydar*	**Lecture** How to Prepare a Scientific Report *Gülderen Yanıkkaya Demirel*	**Laboratory / Anatomy** Telencephalon *Aikaterini Panteli & Sinem Gergin* **Group A IL** / **Group B**	**Lecture** Passage of Drugs Across Membranes, Absorption of Drugs *Ece Genç*
12.00- 12.50	**Lecture** Ascending pathways of the CNS *Yüksel Aydar*	**Lecture** Sympathetic Nervous System *Yüksel Aydar*	**Lecture** Scope of Pharmacology *Ece Genç*	**Group A** / **Group B IL**	**Lecture** Passage of Drugs Across Membranes, Absorption of Drugs *Ece Genç*
13.00-13:50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Ascending Pathways of the CNS *Yüksel Aydar*	**Lecture** Development of Sensory Organs; Eye *Ünal Uslu*	**Field Trip** **(YÜ Göz Hastanesi Balmumcu) / Physiology** Visual Examination & Tests *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Chemical Senses: Taste and Smell *Bayram Yılmaz & Mehtap Kaçar*	**ICP** **CSL**: Intramuscular / Intradermal / Subcutan Injection Ö.Tanrıöver/ A. Akalın
15.00- 15.50	**Lecture** Descending Pathways of the CNS *Yüksel Aydar*	**Lecture** Development of Sensory Organs; Ear *Ünal Uslu*		**Lecture** Chemical Senses: Taste and Smell *Bayram Yılmaz & Mehtap Kaçar*	**Group A ICP** / **Group B Independent Learning** / **Group C ECE-FHC** / **Group D ECE-Bağdat Cad. Outpatient Clinic**
16.00- 16.50	**Laboratory / Anatomy** The Basal Ganglia *Yüksel Aydar & Sinem Gergin* **Group B IL** / **Group A**	**Laboratory / Anatomy** Sympathetic Nervous System *Yüksel Aydar & Sinem Gergin* **Group A IL** / **Group B**		**Elective Courses V**	
17.00-17.50	**Group B** / **Group A IL**	**Group A** / **Group B IL**			**Independent Learning**

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

COMMITTEE IV - NERVOUS SYSTEM
IV WEEK / 13 – 17 March 2017

	Monday 13-March-2017	Tuesday 14-March-2017	Wednesday 15-March-2017	Thursday 16-March-2017	Friday 17-March-2017
09.00- 09.50	**Lecture** Parasympathetic Nervous System *Yüksel Aydar*	**Lecture** Motor Functions of the Spinal Cord *Bayram Yılmaz & Mehtap Kaçar*	**Independent Learning**	**Laboratory / Physiology** Reflexes *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Cerebral Cortex, Intellectual Functions of the Brain *Bayram Yılmaz & Mehtap Kaçar*
10.00- 10.50	**Lecture** Parasympathetic Nervous System *Yüksel Aydar*	**Lecture** Motor Functions of the Spinal Cord *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Functions of Cerebellum and Basal Ganglia for Motor Control *Bayram Yılmaz & Mehtap Kaçar*	**Group B** **Independent Learning** **Group A**	**Lecture** Learning and Memory *Bayram Yılmaz & Mehtap Kaçar*
11.00- 11.50	**Lecture** Orbit and Eye *Yüksel Aydar*	**Lecture** Functions of Cerebellum and Basal Ganglia for Motor Control *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Pharmaceutical Forms of Drug *Ece Genç*	**Group B** **Group A** **Independent Learning**	**Lecture** Drug Metabolism *Ece Genç*
12.00- 12.50	**Lecture** Orbit and Eye *Yüksel Aydar*	**Lecture** The Visual Pathways *Yüksel Aydar*	**Lecture** Drug Distribution *Ece Genç*		**Lecture** Drug Metabolism *Ece Genç*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Laboratory / Anatomy** Parasympathetic Nervous System *Yüksel Aydar & Sinem Gergin* **Group B IL** / **Group A**	**PHYSICIANS DAY**	**Lecture** Cortical and Brain Stem Control of Motor Function *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory / Physiology** Reflexes *Bayram Yılmaz & Mehtap Kaçar*	**ICP** **CSL:** Intramuscular / Intradermal / Subcutan Injection *H.Akan & A. Akalın*
15.00- 15.50	**Group B** / **Group A IL**		**Lecture** Cortical and Brain Stem Control of Motor Function *Bayram Yılmaz & Mehtap Kaçar*	**Group A, B IL** / **Group C**	**Group A ECE-Bağdat Cad. Outpatient Clinic** / **Group B ICP** / **Group C IIndependent Learning** / **Group D ECE-FHC**
16.00- 16.50	**Laboratory / Anatomy** The eye and visual pathways *Yüksel Aydar & Sinem Gergin* **Group A** / **Group B IL**		**Independent Learning**	**Elective Courses VI**	
17.00-17.50	**Group A IL** / **Group B**				**Independent Learning**

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

COMMITTEE IV - NERVOUS SYSTEM
V. WEEK / 20 – 24 March 2017

	Monday 20-March-2017	Tuesday 21-March-2017	Wednesday 22-March-2017	Thursday 23-March-2017	Friday 24-March-2017
09.00- 09.50	**Lecture** Autonomic Nervous System *Bayram Yılmaz & Mehtap Kaçar*	**Independent Learning**	**Lecture** Limbic System and the Hypothalamus *Bayram Yılmaz & Mehtap*	**Laboratory / Physiology** Galvanized Skin Response *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Biology of Nervous System *Turgay İsbir*
10.00- 10.50	**Lecture** The Ear *Yüksel Aydar*	**Lecture** Autonomic Nervous System *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Limbic System and the Hypothalamus *Bayram Yılmaz & Mehtap*	**Group A** / **Group B,C Independent Learning**	**Lecture** Biology of Nervous System *Turgay İsbir*
11.00- 11.50	**Lecture** The Ear *Yüksel Aydar*	**Lecture** The Skin, Its Derivates and the Mammary Glands *Yüksel Aydar*	**Lecture** Mathematical Description of Ion Current Kinetics *Bilge G. Tuna*	**Group A,C Independent Learning** / **Group B**	**Lecture** States of Brain Activity-Sleep and Brain Waves *Bayram Yılmaz & Mehtap Kaçar*
12.00- 12.50	**Lecture** The Auditory Pathways *Yüksel Aydar*	**Lecture** Ion Currents Through Neuron Membrane & Action Potential Spreading *Bilge G. Tuna*	**Lecture** Drug Excretion *Ece Genç*		**Lecture** States of Brain Activity-Sleep and Brain Waves *Bayram Yılmaz & Mehtap Kaçar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Taste, Smell Pathways and Limbic System *Yüksel Aydar*	**Laboratory / Anatomy** Taste, Smell and Limbic System *Yüksel Aydar & Sinem Gergin* **Group B IL** / **Group A**	**Lecture** Drug Excretion *Ece Genç*	**Laboratory / Pharmacology** **Drug Metabolism** *Ece Genç* **Group A** / **Group B IL**	**ICP** **CSL:** Intramuscular / Intradermal / Subcutan Injection *H.Akan & A. Akalın*
15.00- 15.50	**Lecture** Taste, Smell Pathways and Limbic System *Yüksel Aydar*	**Group B** / **Group A IL**	**Laboratory / Physiology** Galvanized Skin Response *Bayram Yılmaz & Mehtap Kaçar*	**Group A IL** / **Group B**	**Group A ECE-FHC** / **Group B ECE-Bağdat Cad. Outpatient Clinic** / **Group C ICP** / **Group D IL**
16.00- 16.50	**Laboratory / Anatomy** The ear and auditory pathways *Yüksel Aydar & Sinem Gergin* **Group B** / **Group A IL**	**Laboratory / Anatomy** The Skin *Yüksel Aydar & Sinem Gergin* **Group B IL** / **Group A**	**Group A, B İndependent Learning** / **Group C**	**Elective Courses VII**	
17.00-17.50	**Group B IL** / **Group A**	**Group B** / **Group A IL**	**Independent Learning**		**Independent Learning**

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

COMMITTEE IV - NERVOUS SYSTEM
VI. WEEK / 27 – 31 March 2017

	Monday 27-March-2017	Tuesday 28-March-2017	Wednesday 29-March-2017	Thursday 30-March-2017	Friday 31-March-2017
09.00- 09.50	**Lecture** Cerebrospinal Fluid and Brain Metabolism *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Principles of X-Ray Imaging and Ultrasound in Medicine *Bilge G. Tuna*	**Laboratory / Histology Assessment (DOPs)** Histology of CNS and Skin	**Laboratory /IPhysiology** Electroencephalography *Bayram Yılmaz & Mehtap Kaçar* **Group B**	**ICP** **CSL:** Intravenous Cannulation *Özlem Tanrıöver & Arzu Akalın*
10.00- 10.50	**Lecture** Cerebrospinal Fluid and Brain Metabolism *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Magnetic Resonance Imaging & Computerized Tomography *Bilge G. Tuna*	**Group A IL** / **Group B**	**ICP** **CSL:** Intravenous Cannulation *Özlem Tanrıöver & Arzu Akalın* **Group A**	Group A I.L / Group B / Group C I.L / Group D I.L
11.00- 11.50	**Lecture** Meninges and the Dural Venous Sinuses *Yüksel Aydar*	**Laboratory / Anatomy** Vasculature of the CNS *Yüksel Aydar & Sinem Gergin* **Group A IL** / **Group B**	**Laboratory / Histology Assessment (DOPs)** Histology of CNS and Skin	**Laboratory /IPhysiology** Electroencephalography *Bayram Yılmaz & Mehtap Kaçar* **Group C**	
12.00- 12.50	**Lecture** Meninges and the Dural Venous Sinuses *Yüksel Aydar*	**Group A** / **Group B IL**	**Group A** / **Group B IL**	**Group B I.L**	**Independent Learning**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Vasculature of the CNS *Yüksel Aydar*	**Lecture** Dopamine and Drugs Effecting Dopaminergic System *Ece Genç*	**Laboratory / Histology** Make Up Session	**Laboratory / Physiology** Electroencephalography *Bayram Yılmaz & Mehtap Kaçar*	**ICP** **CSL:** Intravenous Cannulation *Özlem Tanrıöver & Arzu Akalın*
15.00- 15.50	**Lecture** Vasculature of the CNS *Yüksel Aydar*	**Lecture** Serotonin and Drugs Effecting Serotonergic System of CNS *Ferda Kaleağasıoğlu*	**Group B-Group A**	**Group A** / **Group B ,C IL**	Group A I.L / Group B I.L / Group C / Group D I.L
16.00- 16.50	**Laboratory / Anatomy** Meninges and the dural venous sinuses *Yüksel Aydar & Sinem Gergin* **Group A IL** / **Group B**	**Lecture** Review of the Nervous System *Yüksel Aydar*	**ICP-ECE Evaluation Session** *Özlem Tanrıöver*	**Elective Courses VIII**	
17.00-17.50	**Group A** / **Group B IL**	**Lecture** Review of the Nervous System *Yüksel Aydar*	**Independent Learning**		**Independent Learning**

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

COMMITTEE IV - NERVOUS SYSTEM
VII. WEEK / 03 – 07 April 2017

	Monday 03-April-2016	Tuesday 04-April-2016	Wednesday 05-April-2016	Thursday 06-April-2016	Friday 07-April-2016
09.00- 09.50	Independent Learning	Assessment Session (Practical Exam)	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50					Assessment Session Committee IV (MCQ-EMQ)
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Assessment Session (Practical Exam)	Independent Learning	Independent Learning	Program Evaluation Session Review of the Exam Questions, Evaluation of the Commitee IV Program *Secretary of Committee IV*
15.00- 15.50					
16.00- 16.50					Independent Learning
17.00-17.50					

COMMITTEE V - TISSUE DAMAGE and NEOPLASM
DISTRIBUTION of LECTURE HOURS
April 10 - May 26, 2017
COMMITTEE DURATION: 6 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MED 203	**BASIC MEDICAL SCIENCES II**	**109**	**23**	**132**
	DISCIPLINE			
	HISTOLOGY & EMBRYOLOGY	1	0	2
	MEDICAL GENETICS	16	0	16
	MICROBIOLOGY	59	2Grx1,5x11H	75,5
	PATHOLOGY	15	2GrX2H	17
	PHARMACOLOGY	14	2Grx4H	21
	PHYSIOLOGY	2	3GrX2H	4
	SCIENTIFIC PROJECTS-II	2	0	2

MED 202	**INTRODUCTION TO CLINICAL PRACTICE- II**	0	8	8

Coordination Committee	**Head**	Ece GENÇ, PhD, Prof.
	Secretary	Mehtap KAÇAR, MD, PhD Assoc. Prof.
	Member	İ.Çağatay ACUNER, MD, Assoc. Prof.
	Member	Aylin Yaba UÇAR, PhD, Assist. Prof

COMMITTEE V - TISSUE DAMAGE and NEOPLASM
LECTURERS
April 10 - May 26, 2017

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	**LECTURERS**
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof. Aylin YABA UÇAR, PhD Assist. Prof.
IMMUNOLOGY	Gülderen Yanıkkaya Demirel, MD PhD Assoc. Prof.
MICROBIOLOGY	Çağatay ACUNER, MD Assoc. Prof., Microbiology Lecturers
MEDICAL GENETICS	Ayşegül KUŞKUCU, MD PhD Assist. Prof. Ömer FARUK BAYRAK, PhD Assoc. Prof.
PATHOLOGY	Ferda ÖZKAN, MD Prof. Işın DOĞAN EKICI, MD Prof.
PHARMACOLOGY	Ece GENÇ, PhD Prof. Ferda KALEAĞASIOĞLU, MD Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR, MD PhD Assoc. Prof. Burcu GEMİCİ, PhD Assist. Prof
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMIREL, MD PhD Assoc. Prof.

MED 202 INTRODUCTION TO CLINICAL PRACTICE III	
DISCIPLINE	**LECTURERS**
CLINICAL SKILLS LAB	Güldal İZBIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assoc. Prof. A.Arzu AKALIN, MD Assist. Prof. Serdar ÖZDEMİR, MD, Ph.D, Assist. Prof.

COMMITTEE V - TISSUE DAMAGE and NEOPLASM
AIM and LEARNING OBJECTIVES

AIMS

1. To convey knowledge on basic properties of biological, embryological, histological, physiological and biochemical properties of tissue damage and neoplasia
2. To convey knowledge about biological factors, mechanisms of action and their consequences.
3. To convey development mechanisms of inflammatory processes and neoplasia and their effects and consequences on organism.

LEARNING OBJECTIVES

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

1.0 explain inherited and non-inherited genetic mechanisms in neoplasia.
2.0 associate the relation with congenital abnormalities and developmental processes.
3.0 explain basics of sports physiology.
4.0 explain chemical structure of components and mechanisms of anabolism and catabolism in connective tissue.
5.0 list major transitional phases in bone cycle.
6.4. For human flora;
6.5. describe the flora,
6.6. explain its relation to clinical conditions.
7.0. describe properties of microorganisms causing disease .
8.0. list methods used in protection from microorganisms.
9.0. explain inflammatory processes, termination pathways, effects on tissues and mechanisms for inducing diseases.
10.0. describe factors causing neoplasia, formation , mechanisms of occurrence, neoplastic diseases in organism, classification and staging of neoplasia.
11.0. distinguish mechanisms of actions of drugs and explain toxicity of drugs.
12.0. analyze events developing in response to drug receptor interactions.
13.0. describe general principles of antimicrobial chemotherapy.
14.0. describe general principles of cancer chemotherapy.
15.0. describe pharmacology of inflammation and immunomodulation.

COMMITTEE V - TISSUE DAMAGE and NEOPLASM

COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	IE	TOTAL
2.0	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu	1	1	1	**3**
1.0	MEDICAL GENETICS	Dr. Ö. F. Bayrak	13	5	5	**23**
6.0-8.0	MICROBIOLOGY	Microbiology Lecturer Microbiology Lecturer Dr. Ç. Acuner	51	17	17	**85**
9.0,10.0	PATHOLOGY	Dr. F. Özkan Dr. I. D. Ekici	6 6	3 2	3 2	**12** **10**
11.0, 12.0, 13.0, 14.0	PHARMACOLOGY	Dr. E. Genç Dr. F. Kaleagasıoğlu	6 6	3 3	3 3	**12** **12**
3.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar	1	1	1	**3**
	TOTAL		**90**	**35/200#**	**35/200#**	**160**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EMQ POINTS
		CE
1,0	MEDICAL GENETICS	1
6.0-8.0	MICROBIOLOGY	7
9.0,10.0	PATHOLOGY	1
11.0, 12.0, 13.0, 14.0	PHARMACOLOGY	1
	TOTAL	**10**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB ASSESSMENT POINTS
		LPE
6.0-8.0,13.0	MICROBIOLOGY	60
1.0,9.0,10.0	PATHOLOGY	10
11.0,12.0, 14.0, 15.0	PHARMACOLOGY	20
3.0	PHYSIOLOGY	10
	TOTAL	**100**

Total number of MCQs are 90, equal to 90 pts (each question has 1 pts).
EMQs have value equal to 10 pts (each question has equal value).
Total value of DOPS and LPE are equal to 100 points

Commitee Score (CS) = 90% CE (MCQ+EMQ) + 10% (LPE)

MCQ: Multiple Choice Question
EMQ: Extending Matching Question
MEQ: Modified Essay 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 will be from Committee I (Each question is equal value)

COMMITTEE V - TISSUE DAMAGE and NEOPLASM
I. WEEK / 10 – 14 April 2017

	Monday 10-April - 2017	Tuesday 11-April-2017	Wednesday 12-April-2017	Thursday 13-April-2017	Friday 14-April-2017
09.00- 09.50	**Independent Learning**	**Lecture** Bacterial Classification *Microbiology Lecturer*	**Lecture** Introduction to Medical Genetics *Ömer Faruk Bayrak*	Independent Learning	**Lecture** How to Write a Scientific Article *Gülderen Yanıkkaya Demirel*
10.00- 10.50	**Introductory Session** Introduction to Phase II Phase II Coordination Committee Introduction to Committee V Secretary of Committee	**Lecture** Bacterial Classification *Microbiology Lecturer*	**Lecture** Introduction to Medical Genetics *Ömer Faruk Bayrak*	**Laboratory / Microbiology** Principles and Procedures of Laboratory Safety *Microbiology Lecturers & Çağatay Acuner* Group A Group B	**Lecture** How to Write a Scientific Article *Gülderen Yanıkkaya Demirel*
11.00- 11.50	**Lecture** Introduction to Medical Microbiology *Microbiology Lecturer*	**Lecture** Tissue Damage by Eating Disorders and Diabetes Mellitus *Ferda Özkan*	**Lecture** Bacterial Pathogenesis *Çağatay Acuner*		**Lecture** Growth and Cultivation of Bacteria *Çağatay Acuner*
12.00- 12.50	**Lecture** Sterilization and Disinfection *Çağatay Acuner*	**Lecture** Inflammation *Ferda Özkan*	**Lecture** Bacterial Pathogenesis *Çağatay Acuner*		**Lecture** Microbiome *Çağatay Acuner*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Mechanism of Drug Action 1 *Ece Genç*	**Lecture** Bacterial Genetics *Çağatay Acuner*	**Lecture** Eicosanoids 1 *Ferda Kaleağasıoğlu*	**Lecture** Acute Inflammation *Ferda Özkan*	**Laboratory / Microbiology** Collection, Storage and Transport of Specimens *Microbiology Lecturers & Çağatay Acuner* Group A Group B
15.00- 15.50	**Lecture** Mechanism of Drug Action 2 *Ece Genç*	**Lecture** Bacterial Genetics *Çağatay Acuner*	**Lecture** Eicosanoids 2 *Ferda Kaleağasıoğlu*	**Lecture** Acute Inflammation *Ferda Özkan*	
16.00- 16.50	**Lecture** Prenatal Diagnosis *Ünal Uslu*	**Lecture** Wound Healing *Ferda Özkan*	**Independent Learning**	**Elective Courses IX**	
17.00-17.50	**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 V - TISSUE DAMAGE and NEOPLASM
II. WEEK / 17 – 21 April 2017

	Monday 17-April-2017	Tuesday 18-April-2017	Wednesday 19-April-2017	Thursday 20-April-2017	Friday 21-April-2017
09.00-09.50	**Lecture** Gram Positive Cocci *Microbiology Lecturer*	**Lecture** Mycobacteria *Çağatay Acuner*	**Independent Learning**	**Independent Learning**	**Lecture** Enterobacteriaceae *Çağatay Acuner*
10.00-10.50	**Lecture** Gram Positive Cocci *Microbiology Lecturer*	Aerobic Actinomycetes *Çağatay Acuner*		**Laboratory / Microbiology** Microscopy and Culture Methods for Diagnosis of Mycobacteria *Çağatay Acuner & Microbiology Lecturers*	**Lecture** Enterobacteriaceae *Çağatay Acuner*
11.00-11.50	**Lecture** The Human Genome and Chromosomal Basis of Heredity *Ömer Faruk Bayrak*	**Lecture** Histamine and Antihistamines *Ece Genç*	**Lecture** Gram Positive Aerobic Bacilli *Microbiology Lecturer*		**Lecture** Patterns of Single Gene Inheritance *Ömer Faruk Bayrak*
12.00-12.50	**Lecture** Cytogenetics and Chromosomal Disorders *Ömer Faruk Bayrak*	**Lecture** Vasoactive Peptides *Ece Genç*	**Lecture** Non-Fermenters *Microbiology Lecturer*		**Lecture** Patterns of Single Gene Inheritance *Ömer Faruk Bayrak*
13.00-13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00-14.50	**Laboratory / Microbiology** Microscopy Methods in Diagnostic Microbiology *Çağatay Acuner & Microbiology Lecturers*	**Laboratory / Microbiology** Culture Methods in Diagnostic Microbiology *Çağatay Acuner & Microbiology Lecturers*	**Laboratory / Microbiology** Identification Methods in Diagnostic Microbiology *Çağatay Acuner & Microbiology Lecturers*	**Lecture** Gram Negative Cocci *Microbiology Lecturer*	**ICP** **CSL:** Intravenous cannulation *Özlem Tanrıöver & Arzu Akalın*
15.00-15.50				Gram Negative Cocci *Microbiology Lecturer*	Group A I.L / Group B I.L / Group C I.L / Group D
16.00-16.50				**Independent Learning**	
17.00-17.50	**Independent Learning**	**Independent Learning**	**Independent Learning**		**Independent Learning**

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COMMITTEE V - TISSUE DAMAGE and NEOPLASM
III. WEEK / 24 – 28 April 2017

	Monday 24-April-2017	Tuesday 25-April-2017	Wednesday 26-April-2017	Thursday 27-April-2017	Friday 28-April-2017
09.00- 09.50	**Lecture** Other Gram Negative Bacilli-I *Microbiology Lecturer*	**Lecture** Post Receptor Events and Second Messengers *Ece Genç*	**Lecture** Mycoplasma, Chlamydia, Rickettsia *Microbiology Lecturer*	**Laboratory / Pharmacology** Efficacy and Potency Concepts Pharmacology *Ece Genç & Ferda Kaleağasıoğlu* Group A Group B	**Lecture** Intro to Neoplasia and Biologic Behaviors of Neoplasm *Işın.D. Ekici*
10.00- 10.50	**Lecture** Other Gram Negative Bacilli-II *Microbiology Lecturer*	**Lecture** Factors Influencing Drug Action in Individuals *Ece Genç*	**Lecture** Mycoplasma, Chlamydia, Rickettsia *Microbiology Lecturer*		**Lecture** Intro to Neoplasia and Biologic Behaviors of Neoplasm *Işın.D. Ekici*
11.00- 11.50	**Lecture** Chronic Inflammation *Ferda Özkan*	**Lecture** Anaerobic Bacteria *Çağatay Acuner*	**Lecture** Introduction to Drug Development *Ferda Kaleağasıoğlu*		**Lecture** Viral Pathogenesis *Microbiology Lecturer*
12.00- 12.50	**Lecture** Chronic Inflammation *Ferda Özkan*	**Lecture** Anaerobic Bacteria *Çağatay Acuner*	**Lecture** Development of Biopharmaceuticals *Ferda Kaleağasıoğlu*		**Lecture** Introduction to Viruses *Microbiology Lecturer*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Diagnostic Methods in Bacteriology *Çağatay Acuner*	**Laboratory / Microbiology** Microscopy and Culture Methods for Diagnosis in Mycobacteria *Çağatay Acuner & Microbiology Lecturers* Group A Group B	**Lecture** Pharmacogenetics & Pharmacogenomics *Ece Genç*	**Independent Learning**	**ICP** **CSL:** ICP-II Review *Hülya Akan*
15.00- 15.50	**Lecture** Genetics of Complex Diseases *Ömer Faruk Bayrak*		**Lecture** Pharmacogenetics & Pharmacogenomics *Ece Genç*		**Group A IL** / **Group B IL** / **Group C** / **Group D IL**
16.00- 16.50	**Lecture** Genetics of Complex Diseases *Ömer Faruk Bayrak*		**Independent Learning**	**Elective Courses X**	**ICP** **CSL:** ICP-II Review *Güldal İzbırak & Serdar Özdemir*
17.00-17.50	**Independent Learning**	**Independent Learning**			**Group A IL** / **Group B IL** / **Group C IL** / **Group D**

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COMMITTEE V - TISSUE DAMAGE and NEOPLASM
IV. WEEK / 01 – 05 May 2017

	Monday 01-May-2017	Tuesday 02-May-2017	Wednesday 03-May-2017	Thursday 04-May-2017	Friday 05-May-2017
09.00- 09.50	**Labor's Day**	**Lecture** DNA Viruses I *Microbiology Lecturer*	**Lecture** Histogenesis and Nomenclature *Işın.D. Ekici*	**Independent Learning**	**Independent Learning**
10.00- 10.50		**Lecture** DNA Viruses II *Microbiology Lecturer*	**Lecture** Histogenesis and Nomenclature I *Işın.D. Ekici*	**Laboratory / Microbiology** Immunoassays in Diagnostic Microbiology *Microbiology Lecturers & Çağatay Acuner* Group A Group B	**Lecture** RNA Viruses III *Microbiology Lecturer*
11.00- 11.50		**Lecture** Developmental Genetics and Birth Defects *Ömer Faruk Bayrak*	**Lecture** DNA Viruses III *Microbiology Lecturer*		**Lecture** RNA Viruses IV *Microbiology Lecturer*
12.00- 12.50		**Lecture** Developmental Genetics and Birth Defects *Ömer Faruk Bayrak*	**Lecture** DNA Viruses IV *Microbiology Lecturer*		**Lecture** Slow Viruses *Microbiology Lecturer*
13.00- 13.50		**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Laboratory / Microbiology** Molecular Methods in Diagnostic Microbiology *Microbiology Lecturers & Çağatay Acuner*	**Lecture** DNA Viruses V *Microbiology Lecturer*	**Lecture** RNA Viruses I *Microbiology Lecturer*	**Laboratory / Pharmacology** Use of the Tissue Culture in Pharmacology Ece Genç & *Ferda Kaleağasıoğlu* Group A Group B
15.00- 15.50			**Lecture** General Principles of Antimicrobial Chemotherapy *Ferda Kaleağasıoğlu*	**Lecture** RNA Viruses II *Microbiology Lecturer*	
16.00- 16.50			**Lecture** General Principles of Cancer Chemotherapy *Ferda Kaleağasıoğlu*	**Elective Courses XI**	
17.00-17.50		**Independent Learning**	**Independent Learning**		

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COMMITTEE V - TISSUE DAMAGE and NEOPLASM
V. WEEK / 08 – 12 May 2017

	Monday 08-May-2017	Tuesday 09-May-2017	Wednesday 10-May-2017	Thursday 11-May-2017	Friday 12-May-2017
09.00-09.50	**Lecture** Cancer Genetics and Genomics *Ömer Faruk Bayrak*	**Lecture** Vaccines *Microbiology Lecturer*	**Lecture** Fungal and Parasitic Pathogenesis *Microbiology Lecturer*	**Laboratory / Pathology** Inflammation&Neoplasia *Ferda Özkan & Işın.D. Ekici* Group A, B	**Lecture** Systemic Mycoses *Microbiology Lecturer*
10.00-10.50	**Lecture** Cancer Genetics and Genomics *Ömer Faruk Bayrak*	**Lecture** Introduction to Mycology *Microbiology Lecturer*	**Lecture** Superficial/Subcutaneous Mycosis *Microbiology Lecturer*		**Lecture** Opportunistic Mycoses-I *Microbiology Lecturer*
11.00-11.50	**Lecture** Viral Oncogenesis *Microbiology Lecturer*	**Lecture** Sports Physiology *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Drug Toxicity-I *Ferda Kaleağasıoğlu*		**Lecture** Opportunistic Mycoses-I *Microbiology Lecturer*
12.00-12.50	**Lecture** Antiviral Agents *Microbiology Lecturer*	**Lecture** Sports Physiology *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Drug Toxicity-II *Ferda Kaleağasıoğlu*		**Lecture** Mycotoxins/Diagnostic Methods in Mycology *Microbiology Lecturer*
13.00-13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00-14.50	**Lecture** Diagnostic Methods in Virology *Microbiology Lecturer*	**Laboratory / Physiology** Exercise and Metabolism *Bayram Yılmaz & Mehtap Kaçar*	**Invited Speaker**	**Laboratory / Physiology** Exercise and Metabolism *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory / Microbiology** Mycology *Microbiology Lecturers & Çağatay Acuner* Group A Group B
15.00-15.50	**Lecture** Oncogenesis, Incidence and Distribution of Cancer *Işın D. Ekici*	**Group A** / **Group B I.L**	**Invited Speaker**	**Group A, B Independent Learning** / **Group C**	
16.00-16.50	**Lecture** Grading and Staging of Cancer and Clinical Findings *Işın D. Ekici*.	**Laboratory / Physiology** Exercise and Metabolism *Bayram Yılmaz & Mehtap Kaçar*	**Independent Learning**	**Elective Courses XII**	
17.00-17.50	**Independent Learning**	**Group B** / **Group A I.L**			**Independent Learning**

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

COMMITTEE V - TISSUE DAMAGE and NEOPLASM
VI. WEEK / 15 – 19 May 2016

<table>
<tr><th></th><th>Monday
15-May-2017</th><th>Tuesday
16-May-2017</th><th>Wednesday
17-May-2017</th><th>Thursday
18-May-2017</th><th>Friday
19-May-2017</th></tr>
<tr><td>09.00-09.50</td><td>Lecture
Treatment of Genetic Disease – Introduction to Gene Therapy
Ömer Faruk bayrak</td><td>Independent Learning</td><td>Lecture
Animalia-IV
Microbiology Lecturer</td><td>Independent Learning</td><td rowspan="11">NATIONAL HOLIDAY</td></tr>
<tr><td>10.00-10.50</td><td>Lecture
Treatment of Genetic Disease – Introduction to Gene Therapy
Ömer Faruk bayrak</td><td>Lecture
Animalia-I
Microbiology Lecturer</td><td>Lecture
Animalia-V
Microbiology Lecturer</td><td rowspan="3">Laboratory / Microbiology MAKE-UP
Microbiology Lecturers & Çağatay Acuner</td></tr>
<tr><td>11.00-11.50</td><td>Lecture
Protozoa-I
Microbiology Lecturer</td><td>Lecture
Animalia-II
Microbiology Lecturer</td><td>Lecture
Molecular Basis of Genetic Diseases
Ömer Faruk bayrak</td></tr>
<tr><td>12.00-12.50</td><td>Lecture
Protozoa-II
Microbiology Lecturer</td><td>Lecture
Animalia-III
Microbiology Lecturer</td><td>Lecture
Tools of Human Molecular Genetics
Ömer Faruk bayrak</td></tr>
<tr><td>13.00-13.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00-14.50</td><td>Lecture
Introduction to Parasitology
Microbiology Lecturer</td><td rowspan="3">Laboratory / Microbiology
Parasitology
Microbiology Lecturers & Çağatay Acuner
Group A and B</td><td colspan="4">ICP
CSL: ICP-II Review
Arzu Akalın</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>15.00-15.50</td><td>Lecture
Diagnostic Methods in Parasitology
Microbiology Lecturer</td><td>Group A</td><td>Group B IL</td><td>Group C IL</td><td>Group D IL</td></tr>
<tr><td>16.00-16.50</td><td rowspan="2">Independent Learning</td><td colspan="4">ICP
CSL: ICP-II Review
Özlem Tanrıöver</td><td rowspan="2">Elective Courses XIII</td></tr>
<tr><td>17.00-17.50</td><td>Independent Learning</td><td>Group A IL</td><td>Group B</td><td>Group C IL</td><td>Group D IL</td></tr>
</table>

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

COMMITTEE V - TISSUE DAMAGE and NEOPLASM
VII. (EXAM) WEEK / 22 – 26 May 2017

<table>
<tr><th></th><th>Monday
22-May-2017</th><th>Tuesday
23-May-2017</th><th>Wednesday
24-May-2017</th><th>Thursday
25-May-2017</th><th>Friday
26-May-2017</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="3">ICP Make-Up Exam</td><td rowspan="3">Assessment Session
(Practical Exam)</td><td rowspan="3">Independent Learning</td><td rowspan="3">Independent Learning</td><td>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Assessment Session
Committee V
(MCQ-EMQ)</td></tr>
<tr><td>11.00- 11.50</td></tr>
<tr><td>12.00- 12.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="4">Independent Learning</td><td rowspan="4">Assessment Session
(Practical Exam)</td><td rowspan="4">Independent Learning</td><td rowspan="2">Independent Learning</td><td rowspan="2">Program Evaluation Session
Review of the Exam Questions, Evaluation of the Committee V Program
Secretary of Committee</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Elective Courses XIV</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td></tr>
</table>

STUDENT COUNSELING

Student counseling is a structured development process established between the student and the consultant that aims to maximize student success by focusing the student to her/his target. Although the major component of this relationship is the student, the faculties also take part by bringing the requirements of this interaction to their systems. The targeted outcomes of the consultant-student interaction are success in the exams, success in the program, and preparation for the professional life.
The aim of counseling is to help students to solve their problems, to give professional guidance, to provide coaching, to contribute to adopting the habit of lifelong learning, to provide information about the University and Faculty, to follow their success and failure and to help them select courses.
The consultants selected among Basic Medical Sciences instructors for the first three years transfer the students to Clinical Sciences instructors for the following three years.

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

a. Inform students about the university, faculty and surrounding facilities
b. Inform students about the courses and help them select courses
c. Inform students about the education and assessment regulations
d. Follow students attendance to lectures and success
e. In case of failure, investigate the causes and cooperate with the students to overcome them
f. Help students in career planning
g. Contribute to students adapting the habit of lifelong learning
h. Guide students to counseling services of the university
i. Set a role model as long as the professional susceptibility, professional guidance, intellectual responsibility, interaction with peers, ethics, professional values are concerned
j. Contribute to cultivation of professional and intellectual development in a rapidly changing world
k. Inform the coordinator when there are unsolved problems of the students

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

The expectations from the student are as follows:

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

LIST OF STUDENT COUNSELING- PHASE II

STUDENT NUMBER	NAME	SURNAME	COUNSELOR
20140800012	DAMLA	ACAR	PROF. DR. İNCİ ÖZDEN
20150800101	DUYGU	AÇIKTEPE	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
20140800016	CANSELİ	AÇIL	YRD. DOÇ. DR. ÇİĞDEM KASPAR
20140800002	BERFİN ECE	AKBULUT	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
20140800054	CEYDA	AKDİ	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
20150800032	UMUT DENİZ	AKDAĞ	PROF. DR. TURGAY İSBİR
20150800078	İLAYDA	AKPINAR	PROF. DR. TURGAY İSBİR
20150800013	DEFNE	AKSOY	PROF. DR. TURGAY İSBİR
20150800042	NAZAN EBRU	AKSU	PROF. DR. TURGAY İSBİR
20140800050	SELİN	ARAS	YRD. DOÇ. DR. AYLİN YABA UÇAR
20140800043	DİLAN	ASLAN	YRD. DOÇ. DR. AYLİN YABA UÇAR
20140800078	EZGİ	ATEŞ	YRD. DOÇ. DR. AYLİN YABA UÇAR
20140800025	GÖZDE	ATMACA	YRD. DOÇ. DR. AYLİN YABA UÇAR
20150800049	YASİN FIRAT	AYDOĞAN	PROF. DR. ECE GENÇ
20150800029	BERKAY	AYGÜN	PROF. DR. ECE GENÇ
20150800091	İBRAHİM	AZİMLİ	PROF. DR. ECE GENÇ
20140800097	MOHAMAD IBRAHIM	BADENJKI	PROF. DR. FERDA KALEAĞASIOĞLU
20150800051	MEHMET DENİZ	BAKAN	PROF. DR. FERDA KALEAĞASIOĞLU
20150800105	BEGÜM	BALCI	PROF. DR. FERDA KALEAĞASIOĞLU
20140800044	ILGIN	BARUT	PROF. DR. FERDA KALEAĞASIOĞLU
20140800062	MERVE SELİN	BAYKAN	DOÇ. DR. ELİF VATANOĞLU
20150800090	CEMAL BARTU	BEKTAŞ	DOÇ. DR. ELİF VATANOĞLU
20140800006	ECE	BIÇAKÇI	PROF. DR. İNCİ ÖZDEN
20150800015	BİRSU	BİLGİNOĞLU	DOÇ. DR. ELİF VATANOĞLU
20150800040	BUĞRA BERKAN	BİNGÖL	DOÇ. DR. ELİF VATANOĞLU
20150800076	NİLSU	BOYACIOĞLU	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
20150800016	BERK	BÜKE	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
20140800021	METE	CEVAHİR	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
20150800084	ÇAĞKAN	CEYRAN	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
20150800077	İREM	COŞKUN	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
20150800052	MUSTAFA	ÇAĞAN	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
20150800106	AYŞENUR BANU	ÇAKIL	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
20140800048	ŞEYMA	ÇALIK	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
20150800023	SARPER	ÇALIŞKAN	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
20150800002	ÖZGÜN RÜZGAR	ÇATAL	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
20150800044	YİĞİTCAN	ÇELİK	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
20150800071	HÜMEYRA	ÇOLAK	DOÇ. DR. SONER DOĞAN
20150800109	BAŞAK YAĞMUR	ÇUBUKÇU	YRD. DOÇ. DR. ALEV CUMBUL
20150800046	ATIL	DALGIÇOĞLU	DOÇ. DR. SONER DOĞAN
20140800080	BERFİN	DEMİREL	DOÇ. DR. SONER DOĞAN
20140800052	SERTAÇ	DOĞAN	DOÇ. DR. SONER DOĞAN
20150800082	MERT	DOLAŞTIR	DOÇ. DR. ÜNAL USLU
20150800099	DIAB	DIALA	DOÇ. DR. ÜNAL USLU
20150800089	DILKEN NAIME	DİLBER	DOÇ. DR. ÜNAL USLU
20150800059	SEVDE	EGE	DOÇ. DR. ÜNAL USLU
20140800057	ALEYNA	EKŞİ	PROF. DR. FERDA ÖZKAN
20150800030	MERT	ENBİYAOĞLU	PROF. DR. FERDA ÖZKAN
20150800058	İREMNUR	ERBAŞ	PROF. DR. FERDA ÖZKAN
20150800038	RABİA	ERGÜN	PROF. DR. FERDA ÖZKAN
20140800024	MERT	GAZİOĞLU	PROF. DR. FERDA ÖZKAN
20140800032	EYLÜL ECE	GÖĞEBAKAN	PROF. DR. IŞIN DOĞAN EKİCİ
20140800065	BENGÜL	GÖLGE	PROF. DR. IŞIN DOĞAN EKİCİ
20140800026	BATUHAN	GÜLER	PROF. DR. IŞIN DOĞAN EKİCİ
20150800020	EDİS	HACILAR	YRD. DOÇ. DR. ÇİĞDEM KASPAR
20140800085	ALIREZA	JAVADIAN HOSSEINI	DOÇ. DR. ÖZLEM TANRIÖVER

20150800014	SENA ECE	ILGIN	YRD. DOÇ. DR. ÇİĞDEM KASPAR
20140800040	OĞUZ METE	İŞLEK	YRD. DOÇ. DR. ÇİĞDEM KASPAR
20150800048	SEREL	KABASAKAL	YRD. DOÇ. DR. ALEV CUMBUL
20140800029	ELİF EZEL	KADİROĞLU	YRD. DOÇ. DR. ALEV CUMBUL
20140800055	GÖKÇE ŞUBAT	KARAASLAN	YRD. DOÇ. DR. ALEV CUMBUL
20150800006	EMRE	KARAMAHMUTOĞLU	YRD. DOÇ. DR. ALEV CUMBUL
20140800066	BİRCAN	KASAP	YRD. DOÇ. DR. DENİZ KIRAÇ
20150800026	MURAT	KAMİLOĞLU	YRD. DOÇ. DR. DENİZ KIRAÇ
20140800011	EMİNE BÜŞRA	KITLIK	YRD. DOÇ. DR. DENİZ KIRAÇ
20150800039	DAMLA SELİN	KOCABIÇAK	YRD. DOÇ. DR. DENİZ KIRAÇ
20150800092	TUBA	KOCA	DOÇ. DR. GÜLDAL İZBIRAK
20150800011	AYŞE GİZEM	KOÇ	DOÇ. DR. HÜLYA AKAN
20150800041	KORHAN	KÖKÇE	DOÇ. DR. HÜLYA AKAN
20140800021	OKTAY CEM	KUTLAR	DOÇ. DR. HÜLYA AKAN
20150800043	EYLÜL	KÜÇÜK	DOÇ. DR. ÖZLEM TANRIÖVER
20140800047	CEMİLE	MİÇOOĞULLARI	DOÇ. DR. ÖZLEM TANRIÖVER
20150800094	ISRAA	MOHAMMED OMER MUSA	PROF. DR. İNCİ ÖZDEN
20150800073	MUSTAFA OĞULCAN	NADAR	PROF. DR. ECE GENÇ
20140800003	BERFİN	NARİN	DOÇ. DR. ÖZLEM TANRIÖVER
20150800086	RAHİM	RAHİMLİ	PROF. DR. EROL SEZER
20150800031	ÖZDEN	TÖMEK	PROF. DR. EROL SEZER
20150800003	ONUR	TUNCER	PROF. DR. EROL SEZER
20140800005	IRMAK SEDA	ORUÇ	PROF. DR. EROL SEZER
20150800066	MEMDUH	ÖZKAYA	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
20130800047	ÖZKAN	ÖZTÜRK	YRD. DOÇ. DR. SERDAR ÖZDEMİR
20150800088	ABDULA	SALAR	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
20150800047	CEVDET	SAN	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
20150800018	İLAYDA	SANCAR	DOÇ. DR. ÇAĞATAY ACUNER
20150800087	İSMET TAHSİN	SATIRLI	PROF. DR. İNCİ ÖZDEN
20140800010	BERK	SERBEST	DOÇ. DR. ÇAĞATAY ACUNER
20120800035	MUHAMMET SAİT	SEVİNDİK	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
20150800061	YAĞMUR	SOLAK	DOÇ. DR. ÇAĞATAY ACUNER
20140800037	CEMRE	ŞAHİN	DOÇ. DR. ÇAĞATAY ACUNER
20150800022	DOĞANCAN	ÜRETÜRK	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
20150800102	EZGİ	ÜŞÜMÜŞ	YRD. DOÇ. DR. SERDAR ÖZDEMİR
20130800021	YUSUF KENAN	ÜNAL	YRD. DOÇ. DR. SERDAR ÖZDEMİR
20150800070	SU	ÜNSAL	YRD. DOÇ. DR. SERDAR ÖZDEMİR
20140800028	YASMİNE	TEMUÇİN	YRD. DOÇ. DR. ARZU AKALIN
20150800080	REYDA	TIRPAN	YRD. DOÇ. DR. ARZU AKALIN
20150800065	HİLAL	TONBUL	YRD. DOÇ. DR. ARZU AKALIN
20150800033	YUSUF ÇAĞIN	TUNÇDEMİR	YRD. DOÇ. DR. ARZU AKALIN
20140800030	AYNUR	TÜRKAN	DOÇ. DR. MEHTAP KAÇAR
20150800079	ALP	YAKUT	DOÇ. DR. MEHTAP KAÇAR
20140800051	NEZİHE	YANMAZ	DOÇ. DR. MEHTAP KAÇAR
20140800042	AYBERK	YENİKALE	DOÇ. DR. MEHTAP KAÇAR
20150800083	DİLARA	YETİŞ	PROF. DR. JALE ÇOBAN
20140800060	BUSE	YILDIRIM	PROF. DR. JALE ÇOBAN
20150800027	RONA	YILDIRIM	PROF. DR. JALE ÇOBAN
20130800055	GÖKBERK	YILDIZ	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
20140800061	GİZEM AYNUR	YILMAZ	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
20150800025	GÖKSU	YILMAZ	DOÇ. DR. SONER DOĞAN
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