YEDİTEPE UNIVERSITY

FACULTY OF MEDICINE

PHASE I

ACADEMIC PROGRAM BOOK

2016 - 2017

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

YEDİTEPE UNIVERSITY

FACULTY OF MEDICINE

PHASE I

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)

Elif Çiğdem KASPAR, Ph.D, Assist. Prof. (Coordinator)
Soner DOĞAN Ph.D, Assoc. Prof. (Co-coordinator)
Bilge GÜVENÇ TUNA Ph.D, Assist. Prof. (Co-coordinator)
Aylin YABA UÇAR, Ph.D, Assist. Prof. (Co-coordinator)

ICP-I COORDINATION COMMITTEE
Özlem TANRIÖVER MD, Assoc. Prof. (Coordinator)
Ayşe Arzu AKALIN MD, Assist. Prof. (Co-coordinator)

DESCRIPTION AND CONTENT

Normal Physiology, Basic Sciences and Medical Terms.

Introduction to Basic Sciences, Cell, Tissue I, Tissue II, Energy and Metabolism.

Organic Chemistry, Biophysics, Medical Biology, Medical History, Anatomy, Anatomical Drawing, Physiology, Histology & Embryology, Medical Biochemistry, Medical Microbiology, Family Medicine, Medical Education, Biostatistics, Humanities, Behavioral Sciences, Ethics, Turkish Language and Literature, Principles of Atatürk and Modern History of Turkey.

AIM AND LEARNING OBJECTIVES of PHASE I

AIM

To convey basic knowledge on medical history, organic chemistry, biology, biophysics, biochemistry, biostatistics, anatomy, physiology, embryology, histology, microbiology, behavioral sciences, civilization history and medical ethics.

To convey complementary educational experiences by improving biopsychosocial approach on medical practice.

To prepare students to clinical practice.

LEARNING OBJECTIVES

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

KNOWLEDGE

1.0. explain information about medical history, anatomy, physiology, embryology, histology, organic chemistry, biology, biophysics, biochemistry, biostatistics, microbiology, behavioral sciences, civilization history and medical ethics and elective courses.
2.0. for biophysics;
  2.1. explain basic terms and concepts.
  2.2. explain its essential application areas in medicine.
3.0. explain the structure and function of the cell at cellular level.
4.0. list the developmental processes from zygote to organogenesis.
5.0. define four essential tissues forming the body, cells and intercellular materials.
6.0. define the link between the structure and function of tissues.
7.0. define muscular, vascular and nervous system.
8.0. list basic properties and classes of microorganisms.
9.0. describe basic terms and concepts about first aid.
10.0. describe basic terms and concepts of communication skills.
11.0. describe basic terms and concepts about epidemiology.
12.0. list fundamental steps of a research study.
13.0. describe basic terms of concepts of biostatistics.
14.0. explain case scenario related basic medical science topics in a clinical context.

SKILLS

1.0. apply first aid skills on anatomic model.
2.0. use communication skills in patient-doctor interviews in simulated settings.
3.0. present research data with tables and graphs.
4.0. apply basic laboratory techniques and use equipments.
5.0. use biopsychosocial approach on medical practice.
6.0. display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.

ATTITUDES

1.0. value teamwork, interpersonal skills, and significance of psychosocial issues

BASIC MEDICAL SCIENCES I (MED 104)

AIM

To convey basic knowledge on medical history, organic chemistry, biology, biophysics, biochemistry, biostatistics, anatomy, physiology, embryology, histology, microbiology, behavioral sciences, civilization history and medical ethics.

LEARNING OBJECTIVES

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

KNOWLEDGE

1.0. explain information about medical history, anatomy, physiology, embryology, histology, organic chemistry, biophysics, biochemistry, microbiology, behavioral sciences, civilization history and medical ethics
2.0. for biophysics
   2.1. explain basic terms and concepts.
   2.2. explain its essential application areas in medicine.
3.0. explain the structure and function of the cell at cellular level.
4.0. list the developmental processes from zygote to organogenesis.
5.0. define four essential tissues forming the body, cells and intercellular materials.
6.0. define the link between the structure and function of tissues.
7.0. define muscular, vascular and nervous system.
8.0. list basic properties and classes of microorganisms.
9.0. describe basic terms and concepts about epidemiology.
10.0. list fundamental steps of a research study.
11.0. describe basic terms of concepts of biostatistics.
12.0. explain case scenario related basic medical science topics in a clinical context.

SKILLS

1.0. apply basic laboratory techniques and use equipments**.**
2.0. display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.

ATTITUDES

1.0. value teamwork, interpersonal skills, and significance of psychosocial issues

INTRODUCTION to CLINICAL PRACTICE I (ICP-I) (MED 102)

AIM

The aim of Introduction to Clinical Practice Program is 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.

LEARNING OBJECTIVES

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

KNOWLEDGE

1.0. describe basic terms and concepts about first aid.
2.0. describe basic terms and concepts of communication skills.

SKILLS

1.0. apply first aid skills on anatomic model.
2.0. use communication skills in patient-doctor interviews.

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 OSCE room is equipped with video cameras and microphones to record the encounter. An observation area at the center of the lab allows faculty and students to observe the encounters live or view digital recordings for subsequent analysis.

***Simulated Patients (SPs)**

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

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

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

Assessment: The Assessment procedure of ICP is given in 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.

ANATOMICAL DRAWING (MED 103)

AIM

1.0. to convey basic knowledge on anatomical drawing rules and drawing technique.
2.0. to equip with skills of three dimensional interpretation of bones and muscles in human body.
3.0. to equip with skills of drawing bones and muscles in human body.
4.0. to equip with skills of visually explain clinical conditions to patient.

LEARNING OBJECTIVES

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

KNOWLEDGE

1.0. list rules associated with anatomical drawing.
2.0. represent real axonometrical view under 120^0 angle based on frontal, horizontal and profile views of human body.

SKILLS

1.0. draw frontal, horizontal and profile views of muscles in human body.
2.0. draw frontal, horizontal and profile views of bones in human body.
3.0. explain visually clinical conditions to patients.

ASSESSMENT PROCEDURE:

For the assessments of the medical students for the anatomical drawing class, it is calculated out of 100 points; 70 points of which comes from the 10 different drawing home works (each has equal value) and 30 points comes from the theoretical exams. Passing grade is 50 points and above.

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	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 (only in Phase I and Phase II)
- 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 the long term.
3. The program improvements report also includes the program evaluation data (student feedbacks, faculty feedbacks, results of the educational boards meetings etc.) in use of improvements.

During the Session

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

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

After the Session

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

A SHORT GUIDE FOR STUDENTS TO PROBLEM-BASED LEARNING (PBL)

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

The principal idea behind PBL is that the starting point for learning should be a problem, a query, or a puzzle that the learner wishes to solve.
PBL is a learning method where students perceive their knowledge gaps, decide on learning issues and achieve these, while working in small groups on a case to solve a patient's problems. So, PBL starts by a clinical case of a patient. While working on the patient's problems you will identify your learning needs and study these. During this whole process you will work with a group of 8-12 students and a tutor.

How it works?

You will be presented a patient case (scenario) that has some problems and will be asked to proceed according to the information and instructions that you will receive. You will not be informed about the topic of the case in advance but will face the problem when given to you in your first session- *just like a doctor does not know what patients he/she will see when starting the day*.
Scenarios will be given to you one page at a time. When you finish discussing a page you will be given the following page with additional information about the patient.
Each PBL case will be discussed over 3 sessions, 2 hours each. You will work in a group of 8-12 students with a tutor. One student elected by the group will work as the "scribe"(person who will write the discussed topics on the board). The scribe may change at every session, by group decision.
Each group will be given the same scenario but will work independently from each other.
The tutor working with you will NOT TEACH you but will only guide to on this exciting trip. He/she will ask you questions to guide you to the problems to be solved.
Your aim will be to find out the reasons, and in some cases, the solutions of the problems presented.
It is clear (and we know) that you do not have enough knowledge to understand and solve all the problems presented to you.
Here comes the aim of PBL: **you will thus recognize WHAT YOU DO NOT KNOW and WHAT YOU SHOULD LEARN.** In other words **you will identify your knowledge gaps and try to learn them**. These are called "**learning objectives**".

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

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

The patient's problems will be listed under **"Problems**" column.
The possible causes/reasons/mechanisms of the patient's problems will be listed under "**Hypotheses**". You can suggest and write anything that comes to your mind- you will then try to find any facts or information that can support these hypotheses. Do not be shy to suggest anything. You will not be judged for those things that you suggest.
As you will not be provided with all information about the patient you will need more information (such as, the patient's fever, physical examination findings, laboratory data, etc.). You will thus ask the scribe to write down these on the board under "**Required Information**" heading. This means information that you want to learn about this particular patient.
During the course of these discussions you will recognize that you do not know and thus need to study and learn some topics/issues, which are called "**learning objectives**". The learning objectives will be

written on the fourth column under this heading. These are the topics that you will study until the next session and present by then.

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

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

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

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

Other benefits of PBL that you gain are to:

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

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

PBL STUDENT ASSESSMENT FORM*

Phase Committee						
PBL Scenario Name						
Facilitator Name						
Student Name						
INTERACTION WITH GROUP/PARTICIPATION TO GROUP	**Not observed**	**Poor**	**Fair**	**Average**	**Good**	**Excellent**
	0	**1**	**2**	**3**	**4**	**5**
1. Starts discussion						
2. Contributes with valid questions and ideas						
3. Balances listening and speaking roles						
4. Communicates effectively in group work						
GAINING KNOWLEDGE	**Not observed**	**Poor**	**Fair**	**Average**	**Good**	**Excellent**
	0	**1**	**2**	**3**	**4**	**5**
5. Determines valid learning issues						
6. Finds valid sources						
7. Critically analyses the sources						

8. Makes independent research on learning issues						
9. Shows understanding of the concepts and relationships						
COMMUNICATION/SHARING KNOWLEDGE	**Not observed**	**Poor**	**Fair**	**Average**	**Good**	**Excellent**
	0	**1**	**2**	**3**	**4**	**5**
10. Selects data valid for discussion and presentation						
11. Expresses ideas and knowledge clearly and in an understandable way						
12. Presents written material and figures, diagrams clearly and in an understandable way						
13. Has always some additional information or data to present whenever needed						
14. Perceives individual contributions as ideas only						
PROBLEM SOLVING AND CRITICAL THINKING	**Not observed**	**Poor**	**Fair**	**Average**	**Good**	**Excellent**
	0	**1**	**2**	**3**	**4**	**5**
15. Generates hypotheses independently						
16. Reviews hypotheses critically						
17. Integrates basic science and clinical concepts						
18. Describes the difference between normal and pathological conditions						
19. Understands where and when diagnostic tools can be used						
20. Associates disease states with relevant management/treatment modalities						
PROFESSIONAL ATTITUDE	**Not observed**	**Poor**	**Fair**	**Average**	**Good**	**Excellent**
	0	**1**	**2**	**3**	**4**	**5**
21. Is sensitive to psychosocial factors affecting patients						
22. Treats all group members as colleagues						
23. Accepts feedback properly						
24. Tries to develop self in accordance with feedback						
25. Provides proper feedback to group members						

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

INDEPENDENT LEARNING

Description:

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

Aim:

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

Objectives:

With this instructional strategy, students will develop;

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

Rules:

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

What a student should do for learning independently?

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

8. **Improving:** Once you've achieved the target, the process of planning can start again. Your needs and priorities may have changed, so think about them and then set yourself to another target.

Reminder: For further information about the independent learning, please contact the Department of Medical Education.

Reference:

1. Candy, P. (1991) Self-direction for lifelong learning: a comprehensive guide to theory and practice. San Francisco: Jossey Bass.

For further reading useful resources to recommend to students:

- Burnapp, D. (2009). Getting Ahead as an International Student. London: Open University Press.
- Marshall, L. & Rowland, F. (1998) A Guide to learning independently. London: Open University Press.
- University of Southampton / UKCISA online resource 'Prepare for Success'

ASSESSMENT PROCEDURE

The Assessment Procedure of the Phase I covers exams and scores and their abbrevations that shown below.

- Exams:
  - Committee Exam (CE)
  - Mid-term Exam (MTE)
  - Final Exam (FE)
  - Incomplete Exam (ICE)
  - Make-up Exam (MUE)
- Scores*:
  - Committee Score (CS)
  - Committees Mean Score (CMS)
  - Introduction to Clinical Practice Score (ICPS)
  - Anatomical Drawing Score (ADS)
  - Common Compulsary Course Score (CCCSs)
  - Elective Course Score (ECSs)
  - Scientific 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
	DOPS: Direct Observation of Procedural Skills	DOPS Checklist		CS
	AID: Anatomical Images Drawing			ADS
	PBL-P: Evaluation of PBL Student's Performance	PBL Student Evaluation Form		CS

Exams Information (MED 104, MED 102)	
CE	For the proportional correspondence of individual learning objectives, please see the committee's assessment matrix table/page.
MTE_{ICP}	MTE_{ICP} consists of MCQs to assess the theoretical part of the ICP program.
FE	FE consists of 200 MCQs. For the proportional contribution of each committee, please see the committee's question distribution table/page.
ICE	ICE consists of 200 MCQs. For the proportional contribution of each committee, please see the committee's question distribution table/page.
MUE	MUE will be held only twice in a term. MUE consists of FSAQs. MUE content will be developed by the coordination committees.

Scores Information (MED 104,MED 102,MED 103, HUM 103, TKL 201, TKL 202, HTR 301, HTR 302, MED 190, MED 191, MED 192,MED 193)	
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. Contribution of student's performance during PBL sessions to CSs of Committee II, III and V is **5%.**
CMS	= Average of CSs
ICPS	= (40% MTE_{ICP}) + (60% Final OSCE)
ADS	= (70% AID_{AD}) + (30% FE_{AD})
CCCSs	= Score information will be announced by Course Coordinator.
ECSs	= Score information 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 I (MED 104)
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 Practice I (MED 102)
Pass; *ICPS* **≥ *50***
Fail; *ICPS* **< *50***
Anatomical Drawing (MED 103)
Pass; *ADS* **≥ *50***
Fail; *ADS* **< *50***
Common Compulsary Courses (HUM 103, TKL 201, TKL 202, HTR 301, HTR 302)
Pass; *CCCSs* **≥ *50***
Fail; *CCCSs* **< *50***
Elective Courses (MED 190, MED 191, MED 192, MED 193)
Pass; *ECSs* **≥ *50***
Fail; *ECSs* **< *50***

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

Definitions of the Assessment Methods and Question Types

MCQ 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 are a written examination that requires an answer in a sentence, paragraph, or short composition.

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

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

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

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

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

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).

SCIENTIFIC PROJECTS - I

The purpose of Scientific Projects class is to teach the medical students how to read and write a scientific article. Throughout the year, each Phase One student is expected to prepare an article report and present it in class. Students are free to choose their articles from given journal list for article reading part. All article reports are due before the end of first half of the educational year. In second half; students are given four different scenarios of scientific data and are expected to write an article on their choice of scenarios, individually. All articles will be presented as posters at Scientific Day of Yeditepe School of Medicine, during May, 2016. 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**
Abstract Writing	**1**	**2**	**3**	**4**	**5**	**0**
Introduction	**1**	**2**	**3**	**4**	**5**	**0**
Methods Part (including statistics, ethical issues etc)	**1**	**2**	**3**	**4**	**5**	**0**
Presentation of results (Tables, graphs etc.)	**1**	**2**	**3**	**4**	**5**	**0**
Discussion	**1**	**2**	**3**	**4**	**5**	**0**
References	**1**	**2**	**3**	**4**	**5**	**0**
Article as a whole (representing the given mock data)	**1**	**2**	**3**	**4**	**5**	**0**
Overall presentation	**1**	**2**	**3**	**4**	**5**	**0**
TOTAL POINTS	**40 x 2,5=100 pts (if all criteria has 5 points)**					

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

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-09:50	MED 104	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
10:00-10:50	MED 104	MED 102** (CSL)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
11:00-11:50	MED 104	MED 102 (CSL)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
12:00-12:50	MED 104	MED 102 (CSL)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
13:00-13:50					
14:00-14:50	TKL201&202 (B 311)	MED 103 (C 937)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
15:00-15:50	TKL201&202 (B 311)	MED 103 (C 937)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
16:00-16:50	HTR 301 (B311) (FALL)	Humanities HUM 103 (FALL) HTR 302 (SPRING) (B311)	MED 104 (B 311)	Elective Course (SPRING)	MED 104 (B 311)
17:00-17:50	HTR 301 (B311) (FALL)	HUM 103 (B311) (FALL) HTR 302 (SPRING) (B311)	MED 104 (B 311)	Elective Course (SPRING)	MED 104 (B 311)

COURSE CODES	COURSES and LOCATIONS
MED 104	Basic Medical Sciences (B 311) or Laboratories*
MED 102	Introduction to Clinical Practice I (CSL)** or (B 311)***
MED 103	Anatomical Drawing (C 937)
TKL 201 & 202	Turkish Language & Literature (B 311)
HTR 301 & 302	Atatürk's Principles & History of Modern Turkey (B 311)
HUM 103	Humanities (İnan Kıraç Conference Hall)
MED 611-621	Elective Courses (see www.med.yeditepe.edu.tr)
PBL	Problem Based Learning (see www.med.yeditepe.edu.tr)

B 311	Ground Floor
C 937	5th Floor

*MED 104 Laboratories will be in skill laboratories of related departments.
** MED 102 Practical Lectures will be in Clinical Skills Laboratory (CSL) (Ground Floor)
***Theoretical lectures will be in B311.

ACADEMIC CALENDAR 2016 - 2017

COMMITTEE I
INTRODUCTION TO BASIC MEDICAL SCIENCES (7 Weeks)

Beginning of Committee	September 19, 2016	Monday
End of Committee	November 4, 2016	Friday
Committee Practical Exams	October 31, 2016	Monday
Committee Theoretical Exam	November 4, 2016	Friday
National Holiday	**October 28-29, 2016**	**Friday -Saturday**

COMMITTEE II
CELL (8 Weeks)

Beginning of Committee	November 07, 2016	Monday
End of Committee	December 30, 2016	Friday
Committee Practical Exams	December 28, 2016	Monday
Committee Theoretical Exam	December 30, 2016	Friday
Commemoration of Atatürk	**November 10, 2016**	**Thursday**
New Year	**January 01, 2017**	**Sunday**

COMMITTEE III
TISSUE I (6 Weeks)

Beginning of Committee	January 02, 2017	Monday
End of Committee	February 24, 2017	Friday
Committee Anatomy Practical Exam	February 20, 2017	Monday
Committee Physiology Practical Exam	February 21, 2017	Tuesday
Committee Theoretical Exam	February 24, 2017	Friday
MIDTERM BREAK	**January 16, 2017**	**January 27, 2017**

COMMITTEE IV
TISSUE II (8 Weeks)

Beginning of Committee	February 27, 2017	Monday
End of Committee	April 21, 2017	Friday
Committee Anatomy Practical Exam	April 17, 2017	Monday
Committee Biostatistics Exam	April 17, 2017	Monday
Committee Medical Biology Practical Exam	April 19,2017	Wednesday
Committee Theoretical Exam	April 21, 2017	Friday
White Coat Ceremony and Physicians' Day	**March 14, 2017**	**Tuesday**
National Holiday	**April 23, 2017**	**Sunday**

COMMITTEE V
ENERGY and METABOLISM (6 Weeks)

Beginning of Committee	April 24, 2017	Monday
End of Committee	June 02, 2017	Friday
Committee Anatomy Practical Exam	May 30, 2017	Tuesday
Committee Biostatistics Exam	May 30, 2017	Tuesday
Committee Theoretical Exam	June 02, 2017	Friday
Labor's Day	**May 1, 2017**	**Monday**
National Holiday	**May 19, 2017**	**Friday**

Basic Medical Sciences I

Make-up Exam	June 12-13, 2017	Monday-Tuesday
Final Exam	June 20, 2017	Tuesday
Incomplete Exam	July 20, 2017	Thursday

ICP- I:

Midterm Exam	February 7, 2017	Tuesday
Make-up Exam	May 31, 2017	Wednesday
Final Exam	June 05-06 2017	Monday-Tuesday
Incomplete Exam	July 21, 2017	Friday

ELECTIVE Lectures-Spring 2016-17

Final Exam	May 29, 2017	Monday
Incomplete Exam	June 8, 2017	Thursday

Turkish Language & Literature **TKL**

Midterm Exam	October 31, 2016	Monday (14:00-16:00)
Fall Final Exam	December 19, 2016	Monday (14:00-16:00)
Spring Final Exam	May 22, 2017	Monday (14:00-16:00)

Atatürk's Principles & History of Modern Turkey **HTR**

Fall Midterm Exam	November 7, 2016	Tuesday (16:00-18:00)
Fall Final Exam	January 02, 2017	Monday (16:00-18:00)
Spring Midterm Exam	March 28, 2017	Tuesday (16:00-18:00)
Spring Final Exam	May 13, 2017	Saturday (10:00-18:00)

Humanities **HUM**

Fall Final Exam	December 24,2016	Saturday (14:00-16:00)

1. Coordination Committee Meeting : October 20, 2016 14:00 Thursday
2. Coordination Committee Meeting : January 5, 2017 14:00 Thursday (with student participation)
3. Coordination Committee Meeting : May 10, 2017 16:00 Wednesday (with student participation)
4. 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
		Hollinshead's Textbook of Anatomy	Cornelius Rosse & Penelope Gaddum-Rosse	Lippincott Raven
		A Textbook of Neuroanatomy	Maria Patestas & Leslie P. Gartner	Blackwell
2	BIOCHEMISTRY	Textbook of Biochemistry with Clinical Correlations	Thomas M. Devlin	Wiley-Liss Publishing Company
		Harper's Illustrated Biochemistry	Robert K. Murray et al	Mc-Graw-Hill Companies
		Lehninger Principles of Biochemistry	David L. Nelson, Michael M. Cox	W.H. Freeman Publishing Company
3	BIOPHYSICS	Introductory Biophysics: Perspectives on the Living State	J.R. Claycomb, J.P. Tran	Jones & Bartlett Publishers
4	BIOSTATISTICS	Primer of Biostatistics	Stanton Glantz	Mc-Graw-Hill Companies
5	HISTOLOGY	Junqueira's Basic Histology: Text and Atlas 13th Ed.	Anthony Mescher	Mc-Graw-Hill Companies
	EMBRYOLOGY	The Developing Human: Clinically Oriented Embryology, 10th Ed.	Keith L. Moore & T. V. N. Persaud	Saunders
6	MEDICAL BIOLOGY	Molecular Biology of the Cell	Bruce Alberts et al	Garland Science
7	MEDICAL 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
8	MICROBIOLOGY	Medical Microbiology: with Student Consult	P. R. Murray et al	Saunders
9	ORGANIC CHEMISTRY	Organic Chemistry	John E. McMurry	Cengage Learning
10	PHYSIOLOGY	Guyton Physiology	John E. Hall	Saunders
		Human Physiology	Stuart Fox	Mc-Graw-Hill Science

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.

Beside this thematic structure, there is a continuous clinical skills education in Phase I, II and III, as “Introduction to Clinical Practice -I, -II and -III” courses.

Therefore, the core medical courses are;

- Phase I: MED 104 Basic Medical Sciences I, MED 102 Introduction to Clinical Practice I, MED 103 Anatomical Drawing,
- Phase II: MED 201 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 - INTRODUCTION TO BASIC MEDICAL SCIENCES

DISTRIBUTION of LECTURE HOURS
September 19, 2016 – November 04, 2016
COMMITTEE DURATION: 7 WEEKS

MED 104	BASIC MEDICAL SCIENCES I DISCIPLINE	THEO. *99*	PRAC. *8*	TOTAL *107*
	ANATOMY	9	2 Gr x 2 H	11
	BIOPHYSICS	18	0	18
	HISTOLOGY & EMBRYOLOGY	6	2 Gr x 2 H	8
	MEDICAL BIOLOGY	37	3 Gr x 4 H	41
	MEDICAL HISTORY & ETHICS	10	0	10
	MICROBIOLOGY	3	0	3
	ORGANIC CHEMISTRY	12	0	12
	PHYSIOLOGY	2	0	2
	SCIENTIFIC PROJECT I	2	0	2

MED 103	**ANATOMICAL DRAWING**	0	14	14
MED 102	**ICP I**	17	0	17
HTR 301-302	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	14	0	14
HUM 101-102	**HUMANITIES**	14	0	14
TKL 201-202	**TURKISH LANGUAGE & LITERATURE**	14	0	14

	TOTAL	**158**	**22**	**180**

Coordination Committee	**Head**	Turgay İSBİR, Prof.
	Secretary	E. Çiğdem KASPAR, Assist. Prof.
	Member	Bilge GÜVENÇ TUNA, Assist. Prof.
	Member	Alev CUMBUL, Assist. Prof.

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**FACULTY**
ANATOMY	Erdem SÖZTUTAR, MD, Lecturer
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD, Assoc. Prof.
	Alev CUMBUL, PhD, Assist. Prof.
	Aylin YABA UÇAR, PhD, Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Soner DOĞAN, PhD, Assoc. Prof.
	Deniz KIRAÇ, PhD, Assist. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU LUTZ, MD, Assoc. Prof.
MEDICAL MICROBIOLOGY	Çağatay ACUNER, MD, Assoc. Prof.
ORGANIC CHEMISTRY	Enise Ece GÜRDAL HAKGÖR, PhD, Assist. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
	Mehtap KAÇAR, MD, PhD, Assoc. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD, Assoc. Prof.

INTRODUCTION TO CLINICAL PRACTICE I (ICP- I)	Güldal İZBIRAK, MD, Assoc.Prof.
	Hülya AKAN, MD, Assoc. Prof.
	Özlem TANRIÖVER, MD, Assoc.Prof.
	Arzu AKALIN, MD, Assist. Prof.
ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist. Prof.
ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Davut EKŞİ, PhD, Instructor
HUMANITIES	
TURKISH LANGUAGE & LITERATURE	Bedri SELİMHOCAOĞLU, Instructor

COMMITTEE I – INTRODUCTION TO BASIC MEDICAL SCIENCES

AIM and LEARNING OBJECTIVES

AIM

1. ***to convey*** basic term and concepts on medical history, anatomy, physiology, embryology, histology, medical biology, biophysics, organic chemistry and microbiology**.**
2. ***to convey*** basic knowledge on viability.
3. ***to convey*** knowledge on cellular structure and functions**.**

LEARNING OBJECTIVES

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

1.0. define fundamental concepts of anatomy
  1.1. define anatomy, its historical development and basic anatomical terms.
  1.2. explain basic concepts related to regional and systemic anatomy, and osteology.
2.0. define anatomical properties and clinical implications for bones of the upper and lower limbs.
3.0. explain basic terms and concepts related to basic physics, basic biophysics, system. international units, biomaterials, bio-optics, radiation physics, biomechanics, bioelectronics.
4.0. explain mechanic, electrical and optical processes that are characteristics of living organisms
5.0. classify microscope types and list using area
6.0. explain methods used in histology and their usage purposes.
7.0. explain human genome project and the importance of the results.
8.0. explain the structure and function of eukaryotic subcellular organelles.
9.0. identify the molecules involved in the communication between the cells.
10.0. explain the mechanism of signal transduction,
11.0. describe the programmed cell death.
12.0. define the concepts of medicine,disease and health in the evolutionary perspective.
13.0. explain disease and health theories in prehistoric era
14.0. explain history of discovery for important microorganisms causing infections in humans
15.0. define structure of atom and chemical bonds.
16.0. for organic compounds
  16.1. define functional groups
  16.2. classify possible reactions
17.0. define homeostasis

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	LECTURER / INSTRUCTOR	DISTRUBITION of MCQs			
		CE	FE	ICE	TOTAL
1.0, 2.0	Dr. Erdem Söztutar	8	4	4	16
3.0, 4.0	Dr. B.Güvenç Tuna	17	9	9	35
5.0 - 6.0	Dr. Ü. Uslu	6	3	3	12
	Dr. A. Cumbul				
7.0 – 11.0	Dr. T. İsbir	34	17	17	68
	Dr. S. Doğan				
12.0, 13.0	Dr. E. Vatanoğlu	9	4	4	17
14.0	Dr. Çağatay Acuner	3	1	1	5
15.0,16.1,16.2	Dr. E. Hakgör	11	6	6	23
17.0	Dr. B. Yılmaz	2	1	1	4
	TOTAL	**90**	**45/200#**	**45/200#**	**180**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EMQ POINTS
		CE
3.0, 4.0	BIOPHYSICS	3
7.0 – 11.0	MEDICAL BIOLOGY	7
	TOTAL	**10**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS	
		DOPS	LPE
1,0, 2.0	ANATOMY		25
5.0 – 6.0	HISTOLOGY & EMBRYOLOGY	25	-
7.0 – 11.0	MEDICAL BIOLOGY	-	50
	TOTAL	**100**	

Total number of MCQs are 90 (each question has equal value)
Total number of EMQs are 10 (each question has equal value)
Total value of DOPS and LPE are equal to 100 points
CS = 90% CE (MCQ+EMQ) + 10% (DOPS+LPE)

#In FE and ICE, **45** out of 200 MCQs will be from this Committee (Each question has equal value.)

Abbreviations:
MCQ: Multiple Choice Question
EMQ: Extending Matching Question
DOPS: Direct Observation of Procedural Skills
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

I. WEEK / 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**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Lecture** Microscopy (Brightfield, Fluorescent, Confocal) *Alev Cumbul*
10.00- 10.50	**Introductory Session** Introduction to Faculty *Dean*	**Lecture / ICP I** Introduction to the First Aid Programmes *Güldal İzbırak*	**Lecture** History and Scope of Microbiology *Medical Microbiology*	**Lecture** Origin of Life *Turgay İsbir*	**Lecture** Electronmicroscopy *Alev Cumbul*
11.00- 11.50	**Introductory Session** Introduction to Committee I *Phase I Coordinator*	**Lecture / ICP I** Basic Human Body *Arzu Akalın*	**Lecture** History and Scope of Microbiology *Medical Microbiology*	**Lecture** Origin of Life *Turgay İsbir*	**Lecture** Introduction to Medicinal Organic Chemistry *Ece Gürdal Hakgör*
12.00- 12.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lecture** Introduction to Organic Chemistry *Ece Gürdal Hakgör*
13.00- 13.50	**Independent Learning**	**Lecture / ICP I** Scene Assessment *Arzu Akalın*	**Lecture** Introduction to Medical Biology *Turgay İsbir*	**Independent Learning**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Introduction to Biophysics; Medicine, Science or Art *Bilge Güvenç Tuna*	**Independent Learning**	**Lecture** Cellular Organization of Life *Turgay İsbir*
15.00- 15.50			**Lecture** Physical Measurements and Units, Unit Standards *Bilge Güvenç Tuna*	**Lecture** Statics (Mass and Weight), Gravitation Law *Bilge Güvenç Tuna*	**Lecture** Cellular Organization of Life *Turgay İsbir*
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Lecture / ICP I** Legal Aspect of First Aid *Elif Vatanoğlu Lutz*	**Lecture** Introduction to Histology; Basic Terminology *Ünal Uslu*	**Lecture** Cellular Organization of Life *Turgay İsbir*
17.00-17.50			**Lecture / ICP I** Legal Aspect of First Aid *Elif Vatanoğlu Lutz*	**Independent Learning**	**Lecture** Cellular Organization of Life *Turgay İsbir*

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
II. WEEK / 26 Sep – 30 Sep 2016

	Monday 26-Sep-2016	Tuesday 27-Sep-2016	Wednesday 28-Sep-2016	Thursday 29-Sep-2015	Friday 30-Sep-2015
09.00- 09.50	**Independent Learning**	**Lecture** Newton's Laws of Motion *Bilge Güvenç Tuna*	**Lecture** Acids & Bases *Ece Gürdal Hakgör*	**Lecture** Nature of Light, Electromagnetic Spectrum *Bilge Güvenç Tuna*	**Lecture** Alkanes & Cycloalkanes *Ece Gürdal Hakgör*
10.00- 10.50		**Lecture** Center Of Mass, Moment *Bilge Güvenç Tuna*	**Leture** Acids & Bases *Ece Gürdal Hakgör*	**Lecture** Reflection and Refraction of Light *Bilge Güvenç Tuna*	**Leture** Alkanes & Cycloalkanes *Ece Gürdal Hakgör*
11.00- 11.50		**Lecture / ICP I** Basic Life Support *Güldal İzbırak*	**Lecture** Approaches to Medicine/ Medicine in Prehistoric Times *Elif Vatanoğlu Lutz*	**Lecture** History and Scope of Microbiology *Medical Microbiology*	**Lecture** Methods of Histology; Tissue Processing *Alev Cumbul*
12.00- 12.50		**Lecture / ICP I** Basic Life Support *Güldal İzbırak*	**Lecture** Approaches to Medicine/ Medicine in Prehistoric Times *Elif Vatanoğlu Lutz*	**Independent Learning**	**Lecture** Methods of Histology; Immunohistochemistry *Alev Cumbul*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Energy Protection Principle *Bilge Güvenç Tuna*	**Lecture** Introduction to Anatomy *Erdem Söztutar*	**Laboratory / Histology Assessment (DOPs)** Microscopy
15.00- 15.50			**Lecture** Energy, Work and Power, Mechanical efficiency *Bilge Güvenç Tuna*	**Lecture** Terminology in Anatomy *Erdem Söztutar*	**Group A** / **Group B Independent Learning**
16.00- 16.50	**Lecture** **Common Compulsory Course** Ataturk's Principles & History Of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities Conferences *Instructor*	**Independent Learning**	**Independent Learning**	**Group A Independent Learning** / **Group B**
17.00-17.50					

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
III. WEEK / 3 – 7 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	**Independent Learning**	**Independent Learning**	**Lecture** Approaches to Medicine/ Medicine in Prehistoric Times *Elif Vatanoğlu Lutz*	**Lecture** Cell Adhesion *Turgay İsbir*	**Lecture** Assyro-Babylon Medicine *Elif Vatanoğlu Lutz*
10.00- 10.50		**Lecture** Other Histologic Methods *Alev Cumbul*	**Lecture** Approaches to Medicine/ Medicine in Prehistoric Times *Elif Vatanoğlu Lutz*	**Lecture** Cell Adhesion *Turgay İsbir*	**Lecture** Assyro-Babylon Medicine *Elif Vatanoğlu Lutz*
11.00- 11.50		**Lecture / ICP I** Shock and Bleeding Control *Hülya Akan*	**Lecture** Cellular Organization of Life *Turgay İsbir*	**Lecture** Cell Signalling Events *Turgay İsbir*	**Lecture** Alkenes *Ece Gürdal Hakgör*
12.00- 12.50		**Lecture / ICP I** Burns, Freezing, Frostbite *Hülya Akan*	**Lecture** Cytoskeleton *Turgay İsbir*	**Lecture** Lenses; Lens-maker Equation *Bilge Güvenç Tuna*	**Lecture** Alkenes *Ece Gürdal Hakgör*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Cytoskeleton *Turgay İsbir*	**Lecture** Cell Signalling Events *Turgay İsbir*	**Lecture** Cell Signalling Events *Turgay İsbir*
15.00- 15.50			**Lecture** Cytoskeleton *Turgay İsbir*	**Lecture** Cell Signalling Events *Turgay İsbir*	**Laboratory / Med. Biology** Introduction to Medical Biology *Turgay İsbir* *Soner Doğan & Deniz Kıraç* **Group A** **Group B** **Group C**
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History Of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Cytoskeleton *Turgay İsbir*	**Lecture** Cellular Organization of Life Biological Energy Systems Enzymes and Kinetics *Soner Doğan*	
17.00-17.50			**Lecture** Cell Adhesion *Turgay İsbir*	**Lecture** Cell Membrane *Soner Doğan*	**Independent Learning**

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
IV. 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	Independent Learning	**Lecture / ICP I** Foreign Objects *Hülya Akan*	**Lecture** Intercellular Cell Signalling *Turgay İsbir*	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Lecture** Stereochemistry *Ece Gürdal Hakgör*
10.00- 10.50		**Lecture / ICP I** Fractures and Dislocation *Hülya Akan*	**Lecture** Intercellular Cell Signalling *Turgay İsbir*	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Lecture** Stereochemistry *Ece Gürdal Hakgör*
11.00- 11.50		**Lecture** Cell Signalling Events *Turgay İsbir*	**Lecture** Intercellular Cell Signalling *Turgay İsbir*	**Lecture** Programmed Cell Death *Turgay İsbir*	**Lecture** Bones of the Upper Limb *Erdem Söztutar*
12.00- 12.50		**Lecture** Cell Signalling Events *Turgay İsbir*	**Lecture** Optical Aberrations *Bilge Güvenç Tuna*	**Lecture** Programmed Cell Death *Turgay İsbir*	**Lecture** Bones of the Upper Limb *Erdem Söztutar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Introduction to Osteology *Erdem Söztutar*	**Lecture** Bio-optics: Vision and Eye, Refraction errors *Bilge Güvenç Tuna*	**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50			**Lecture** Bones of the Soulder *Erdem Söztutar*	**Lecture** Optical Properties of Microscopes *Bilge Güvenç Tuna*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Lecture / ICP I** Injuries *Arzu Akalın*	**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Turgay İsbir* *Soner Doğan & Deniz Kıraç*	**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
17.00-17.50			**Independent Learning**	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
V. 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	**Independent Learning**	**Lecture** Programmed Cell Death *Turgay İsbir*	**Independent Learning**	**Independent Learning**	**Lecture** Benzene & Aromaticity *Ece Gürdal Hakgör*
10.00- 10.50		**Lecture** Programmed Cell Death *Turgay İsbir*	**Lecture** Optical Properties of Microscopes *Bilge Güvenç Tuna*	**Lecture** Electric Charges, Electric Field *Bilge Güvenç Tuna*	**Lecture** Benzene & Aromaticity *Ece Gürdal Hakgör*
11.00- 11.50	**Laboratory / Anatomy** Bones of The Shoulder and Upper Limb *Erdem Söztutar & Sinem Gergin* **Group A** / **Group B Independent Learning**	**Lecture / ICP I** The Unconscious Causalty *Güldal İzbırak*	**Lecture** Assyro-Babylon Medicine *Elif Vatanoğlu Lutz*	**Lecture** Membrane Impedance, Bioelectrical Activity *Bilge Güvenç Tuna*	**Lecture** Electric Current Effects on Human Tissue *Bilge Güvenç Tuna*
12.00- 12.50	**Group A Independent Learning** / **Group B**	**Lecture / ICP I** Poisoning *Arzu Akalın*	**Lecture** Assyro-Babylon Medicine *Elif Vatanoğlu Lutz*	**Lunch Break**	**Lecture** Electrical Security Systems *Bilge Güvenç Tuna*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lecture** Bones of the Pelvis *Erdem Söztutar*	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Egyptian Medicine *Elif Vatanoğlu Lutz*	**Lecture** Bones of the Pelvis& Lower Limb *Erdem Söztutar*	**Independent Learning**
15.00- 15.50			**Lecture** Egyptian Medicine *Elif Vatanoğlu Lutz*	**Lecture** Bones of the Pelvis & Lower Limb *Erdem Söztutar*	
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Independent Learning**	**Independent Learning**	
17.00-17.50			**Independent Learning**		

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VI. 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** Introduction to Physiology and Homeostasis *Bayram Yılmaz*	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Lecture** Introduction to Physiology and Homeostasis *Bayram Yılmaz*	**Lecture** Cell Cycle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) *Turgay İsbir*	**Lecture / ICP I** Insect Bite *Özlem Tanrıöver*		
11.00- 11.50	**Laboratory / Anatomy** Bones of the Pelvis & Lower Limb *Erdem Söztutar & Sinem Gergin* **Group A Independent Learning** / **Group B**	**Lecture** Cell Cycle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) *Turgay İsbir*	**Lecture / ICP I** Patient-Causalty Transportation Techniques *Özlem Tanrıöver*		
12.00- 12.50	**Group A** / **Group B Independent Learning**	**Lecture / ICP I** Drowning *Güldal İzbırak*	**Lunch Break**		
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lecture** Cellular Homoestosis and Cell Growth *Turgay İsbir*		
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Cellular Homoestosis and Cell Growth *Turgay İsbir*		**NATIONAL HOLIDAY**
15.00- 15.50			**Lecture** Cellular Organization of Life Biological Energy Systems Enzymes and Kinetics *Soner Doğan*		
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Cell Membrane *Soner Doğan*		
17.00-17.50			**Lecture** Cell Membrane *Soner Doğan*		

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VII. WEEK / 31 Oct – 04 Nov 2016

<table>
<tr><th></th><th>Monday
31-Oct-2016</th><th>Tuesday
01-Nov-2016</th><th>Wednesday
02-Nov-2016</th><th>Thursday
03-Nov-2016</th><th>Friday
04-Nov-2016</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="2">Assessment Session
Medical Biology
(Practical Exam)</td><td rowspan="3">Independent Learning</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 I
(MCQ-EMQ)</td></tr>
<tr><td>11.00- 11.50</td><td rowspan="2">Assessment Session
Anatomy
(Practical Exam)</td></tr>
<tr><td>12.00- 12.50</td><td></td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Bedri Selimhocaoğlu</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td rowspan="2">Program Evaluation Session
Review of the Exam Questions, Evaluation of the Committee I Program
Head of Committee</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Ataturk's Principles &
History Of Modern Turkey
Davut Ekşi</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td></tr>
</table>

COMMITTEE II - CELL

DISTRIBUTION of LECTURE HOURS

November 07, 2016 - December 30, 2016

COMMITTEE DURATION: 8 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	PBL	TOTAL
	DISCIPLINE	***101***	***9***	***7***	***117***
	ANATOMY	8	2Grx3H		11
	BIOPHYSICS	14	0		14
	HISTOLOGY and EMBRYOLOGY	14	0		14
	MEDICAL BIOLOGY	31	3Grx4H		35
	MEDICAL HISTORY & ETHICS	6	0		6
	MICROBIOLOGY	8	0		8
	ORGANIC CHEMISTRY	12	0		12
	PHYSIOLOGY	6	3Grx2H		8
	SCIENTIFIC PROJECT I	2	0		2
MED 103	**ANATOMICAL DRAWING**	0	14		14
MED 102	**ICP-I**	0	4Grx6H		6
HTR 301-302	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	14	0		14
HUM 101-102	**HUMANITIES**	14	0		14
TKL 201-202	**TURKISH LANGUAGE & LITERATURE**	14	0		14
	TOTAL	**143**	**29**	**7**	**179**

Coordination Committee	Head	Ünal USLU, Assoc. Prof.
	Secretary	Soner DOĞAN, Assoc. Prof
	Member	Bilge GÜVENÇ TUNA, Assist. Prof.
	Member	Erdem SÖZTUTAR, MD, Lecturer

PBL Coordinators	Coordinator	Sabri KAMAHLI, Prof. Dr.
	Coordinator	İbrahim Çağatay ACUNER, Assoc. Prof.Dr.
	Co-Coordinator	Serdar ÖZDEMİR, Assist. Prof. Dr.

COMMITTEE II – CELL

LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**FACULTY**
ANATOMY	Yüksel AYDAR, Prof. Dr.
	Erdem SÖZTUTAR, Lecturer, Dr.
BIOPHYSICS	Bilge GÜVENÇ TUNA, Assist. Prof. Dr.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, Assoc. Prof. Dr.
	Alev CUMBUL, Assist. Prof. Dr.
	Aylin YABA UCAR, Assist. Prof. Dr.
MEDICAL BIOLOGY	Turgay İSBİR, Prof. Dr.
	Soner DOĞAN, Assoc. Prof. Dr.
	Deniz KIRAÇ, Assist. Prof. Dr.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU LUTZ, Assoc. Prof. Dr.
MICROBIOLOGY	Çağatay ACUNER, Assoc. Prof. Dr.
ORGANIC CHEMISTRY	Ece GÜLDAL HAKGÖR, Assist. Prof. Dr.
PHYSIOLOGY	Bayram YILMAZ, Prof. Dr.
	Mehtap KAÇAR, Assoc. Prof. Dr.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, Assoc. Prof.

INTRODUCTION TO CLINICAL PRACTICE I (ICP-I)	Güldal İZBIRAK, Assoc.Prof. Dr.
	Hülya AKAN, Assoc. Prof. Dr.
	Özlem TANRIÖVER, Assoc.Prof.
	Arzu AKALIN, Assist. Prof. Dr.
ANATOMICAL DRAWING	Refik AZİZ, Assist.Prof. Dr.
ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Davut EKŞİ, Instructor
HUMANITIES	
TURKISH LANGUAGE & LITERATURE	Bedri SELİMHOCAOĞLU, Instructor

COMMITTEE II – CELL

AIM and LEARNING OBJECTIVES

AIM

1.0 ***to convey*** basic term and concepts on medical history, anatomy, physiology, embryology, histology, medical biology, biophysics, organic chemistry and microbiology**.**
2.0 ***to convey*** knowledge on cellular structure and functions**.**
3.0 ***to convey*** knowledge on process from zygote to formation of organs.
4.0 ***to convey*** knowledge on system-specific (bones, skull, vertebra, and thorax) anatomy and its clinical applications.

LEARNING OBJECTIVES

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

1.0. define anatomical terms of basic bone structures.
1.1 *explain basic concepts related to regional and* systemic *anatomy, and osteology.*
2.0. define anatomical properties and clinical implications for bones of the pelvis, thorax and vertebral column, ribs and strernum, neurocranium, viscocranium.
3.0. explain basic terms and concepts about radiation biophysics, radiation safety and use of lasers.
4.0. list effects of radiation to the organism, its evaluation methods on the cellular basis and protection approaches.
5.0. explain histological characteristics of cell membrane and functions
6.0. summarize the structure of cytoplasmic organelles and relate it to their functions
7.0. list the cytoskeleton element and describe probable functions
8.0. explain histological characteristics of cell nucleus.
9.0. list the difference between mitosis and meiosis.
10.0. list the difference between male and female gametogenesis.
11.0. list developmental events respectively from zygote to gastrulation.
12.0. define basic ions that are diffused in intracellular and extracellular fluids and their concentrated regions.
13.0. explain transfer mechanisms of cellular membrane and the connection of these mechanisms with material and energy requirements.
14.0. explain the roles of DNA and RNA in the maintenance of living organism.
15.0. list the protein synthesis steps and define the mechanisms of regulation of gene expression.
16.0. define types of mutations and emphasize the importance of gene polymorphisms in human health and variability.
17.0. define plasmids and their use in molecular biology,
18.0. explain the identification methods of chromosomes and their use in medical clinics.
19.0. define the correlation of medicine,art and philosophy from prehistoric ages to date.
20.0. for microorganisms;
20.1. classify
20.2. list general characteristics.
21.0. define structure of organic compounds and their chemical reactions
22.0. define structures and reactions of macromolecules such as amino acid, protein, lipid and carbohydrate.
23.0. explain case scenario related basic medical science topics in a clinical context.

COMMITTEE II – CELL

COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	LECTURER / INSTRUCTOR	DISTRUBITION of MCQs			
		CE	FE	ICE	TOTAL
1.0, 2.0	Dr. Erdem Söztutar	8	4	4	16
3.0, 4.0	Dr. Bilge G. Tuna	13	7	7	27
5.0 – 11.0	Dr. Unal Uslu Dr. Alev Cumbul	13	7	7	27
14.0 -18.0	Dr. Turgay Isbir Dr. Deniz Kıraç	28	14	14	56
19.0	Dr. Elif Vatanoğlu	5	3	3	11
20.1, 20.2	Medical Microbiology	7	4	4	15
21.0, 22.0	Dr. Ece Hakgör	11	6	6	23
12.0-13.0	Dr. Bayram Yilmaz	5	3	3	11
	TOTAL	**90**	**48/200#**	**48/200#**	**186**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EMQ POINTS
		CE
3.0, 4.0, 23.0	BIOPHYSICS	**3**
5.0-11.0, 23.0	HISTOLOGY and EMBRYOLOGY	**2**
14.0 – 18.0,23.0	MEDICAL BIOLOGY	**5**
	TOTAL	**10**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS
		LPE
1.0, 2.0	ANATOMY	30
11.0 – 15.0	MEDICAL BIOLOGY	50
9.0, 10.0	PHYSIOLOGY	20
	TOTAL	**100**

Total number of MCQs are 90 (each question has equal value)
Total number of EMQs are 10 (each question has equal value)
Total value of LPE are equal to 100 points
Learning objectives related to PBL sessions are assesed by EMQs of related disiplines.
CS = 95% of [90% CE (MCQ+EMQ) + 10% (LPE)] + 5% of PBL-P

#In FE and ICE **48** out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:
MCQ: Multiple Choice Question
EMQ: Extending Matching Question
DOPS: Direct Observation of Procedural Skills
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
PBL-P: Evaluation of PBL Student's Performance

COMMITTEE II – CELL
I. WEEK / 07 – 11 Nov 2016

<table>
<tr><th></th><th>Monday
07-Nov-2016</th><th>Tuesday
08-Nov-2016</th><th>Wednesday
09-Nov-2016</th><th>Thursday
10-Nov-2016</th><th>Friday
11-Nov-2016</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="2">PBL Session</td><td colspan="2">Independent Learning</td><td rowspan="2">Commemoration of Atatürk</td><td rowspan="2">PBL Session</td></tr>
<tr><td>10.00- 10.50</td><td colspan="2" rowspan="2">Clinical Skills Learning
ICP I
Basic Life Support
Güldal İzbırak & Arzu Akalın</td><td rowspan="3">Independent Learning</td></tr>
<tr><td>11.00- 11.50</td><td rowspan="2">Independent Learning</td><td rowspan="2">Lunch Break</td><td rowspan="2">Lunch Break</td></tr>
<tr><td>12.00- 12.50</td><td>Group A
Group B Independent Learning
Group C Independent Learning
Group D Independent Learning</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td colspan="2">Lunch Break</td><td>Lecture
Deoxyribonucleic Acid and Ribonucleic Acid
Turgay İsbir</td><td>Lecture
Deoxyribonucleic Acid and Ribonucleic Acid (Central Dogma)
Turgay İsbir</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Bedri Selimhocaoğlu</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Introductory Session
Introduction to Committee II
Secretary of Committee II</td><td>Lecture
Deoxyribonucleic Acid and Ribonucleic Acid
Turgay İsbir</td><td>Lecture
Protein Synthesis and Turnover
Turgay İsbir</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Cell; General Specification
Alev Cumbul</td><td>Lecture
Deoxyribonucleic Acid and Ribonucleic Acid (Central Dogma)
Turgay İsbir</td><td>Lecture
Cell Cycle and Mitosis-Meiosis
Deniz Kıraç</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Ataturk's Principles & History of Modern Turkey
Davut Ekşi</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td><td>Lecture
Radiation Biophysics: Nucleus and Radioactivity
Bilge Güvenç Tuna</td><td rowspan="2">Independent Learning</td><td>Lecture
Cell Cycle and Mitosis-Meiosis
Deniz Kıraç</td></tr>
<tr><td>17.00-17.50</td><td>Lecture
Nuclear stability
Bilge Güvenç Tuna</td><td>Independent Learning</td></tr>
</table>

COMMITTEE II – CELL
II. 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**	**Independent Learning**	**PBL Session**	**Lecture** Cell Membrane Structure & Function *Alev Cumbul*	**Lecture** Alcohols and Ethers *Ece Gürdal Hakgör*
10.00- 10.50		**Clinical Skills Learning** **ICP I** Basic Life Support *Güldal İzbırak & Arzu Akalın*		**Lecture** Cell Organalles *Alev Cumbul*	**Lecture** Alcohols and Ethers *Ece Gürdal Hakgör*
11.00- 11.50		**Group A Independent Learning** / **Group B** / **Group C Independent Learning** / **Group D Independent Learning**	**Lecture** Interaction of Radiation with Matter *Bilge Güvenç Tuna*	**Lecture** Protein Synthesis and Turnover *Turgay İsbir*	**Laboratory / Med. Biology** Mitosis and Meiosis *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
12.00- 12.50			**Lunch Break**	**Lecture** Biosynthesis of Nucleotides *Turgay İsbir*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lecture** General Structures of Bacteria, Mycoplasma, Chlamydia and Rickettsiae *Medical Microbiology*	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** General Structures of Bacteria, Mycoplasma, Chlamydia and Rickettsiae *Medical Microbiology*	**Lecture** Regulation of Gene Expression *Turgay İsbir*	**Laboratory / Med. Biology** Mitosis and Meiosis *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50			**Lecture** Interaction of X or Gamma Rays with Matter *Bilge Güvenç Tuna*	**Independent Learning**	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Photoelectric Action, Compton Action *Bilge Güvenç Tuna*		**Laboratory / Med. Biology** Mitosis and Meiosis *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
17.00-17.50			**Lecture** Chinese Medicine *Elif Vatanoğlu Lutz*		**Group A Independent Learning** / **Group B Independent Learning** / **Group C**

COMMITTEE II – CELL
III. 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	**Independent Learning**	**Lecture** Regulation of Gene Expression *Turgay İsbir*	**Lecture** Distribution of Substances in Body Fluids *Bayram Yılmaz*	**Independent Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Lecture** Carbonyl Compounds *Ece Gürdal Hakgör*
10.00- 10.50		**Clinical Skills Learning** **ICP I** Basic life support *Güldal İzbırak & Arzu Akalın*	**Lecture** Cell Membrane *Bayram Yılmaz*	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Lecture** Carbonyl Compounds *Ece Gürdal Hakgör*
11.00- 11.50		**Group A Independent Learning** / **Group B Independent Learning** / **Group C** / **Group D Independent Learning**	**Lecture** Tools in Medical Biology *Deniz Kıraç*	**Lecture** Vertebral column, ribs and sternum *Erdem Söztutar*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
12.00- 12.50			**Lecture** Tools in Medical Biology *Deniz Kıraç*	**Lecture** Vertebral column, ribs and sternum *Erdem Söztutar*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Cytoskeleton *Alev Cumbul*	**Lecture** Protein Synthesis and Turnover *Turgay İsbir*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
15.00- 15.50			**Lecture** Cell Nucleus and Cell Cycle *Alev Cumbul*	**Lecture** Genomics, Proteomics and Metabolomics *Turgay İsbir*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Chinese Medicine *Elif Vatanoğlu Lutz*	**Lecture** Genomics, Proteomics and Metabolomics *Turgay İsbir*	**Lecture** Mitosis & Meiosis *Alev Cumbul*
17.00-17.50			**Independent Learning**	**Independent Learning**	**Independent Learning**

COMMITTEE II – CELL
IV. 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	**Independent Learning**	**Independent Learning**	**Lecture** General Structure of Viruses *Medical Microbiology*	**Lecture** Neurocranium *Erdem Söztutar*	**Lecture** Carboxylic Acids and Nitriles *Ece Gürdal Hakgör*
10.00- 10.50	**Laboratory / Anatomy** Vertebral Column, Sternum, and the Ribs *Yüksel Aydar & Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Clinical Skills Learning** **ICP I** Basic Life Support *Güldal İzbırak & Arzu Akalın*	**Lecture** General Structure of Viruses *Medical Microbiology*	**Lecture** Neurocranium *Erdem Söztutar*	**Lecture** Carboxylic Acids and Nitriles *Ece Gürdal Hakgör*
11.00- 11.50	**Group A Independent Learning** / **Group B**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D**	**Lecture** Tools in Medical Biology *Deniz Kıraç*	**Lecture** Neurocranium *Erdem Söztutar*	**Lecture** Radiation Protection (Safety) *Bilge Güvenç Tuna*
12.00- 12.50	**Lunch Break**		**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Independent Learning**	**Lunch Break**	**Lecture** Introduction to Embryology and Human Devopmental Period *Ünal Uslu*	**Lecture** Half Value Layer, Attenuation *Bilge Güvenç Tuna*	**Laboratory / Anatomy** Neurocranium *Yüksel Aydar & Erdem Söztutar* **Group A Independent Learning** / **Group B**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Gametogenesis; Spermatogenesis *Ünal Uslu*	**Lecture** Units of Radioactivity *Bilge Güvenç Tuna*	**Group A** / **Group B Independent Learning**
15.00- 15.50			**Lecture** DNA Damage and Repair Mechanism *Turgay İsbir*	**Lecture** Transport of Substances Through the Cell Membrane *Bayram Yılmaz*	**Independent Learning**
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** DNA Damage and Repair Mechanism *Turgay İsbir*	**Lecture** Transport of Substances Through the Cell Membrane *Bayram Yılmaz*	
17.00-17.50			**Independent Learning**	**Independent Learning**	

COMMITTEE II – CELL
V. 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	**Independent Learning**	**Independent Learning**	**Lecture** Carboxylic Acid Derivatives *Ece Gürdal Hakgör*	**Lecture** General structure of fungi *Medical Microbiology*	**Laboratory / Med. Biology** Nucleic Acid Purification *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
10.00- 10.50		**Clinical Skills Learning** **ICP I** Patient-Causalty Transportation / Bandaging Techniques *Özlem Tanrıöver & Hülya Akan*	**Lecture** Carboxylic Acid Derivatives *Ece Gürdal Hakgör*	**Lecture** General structure of fungi *Medical Microbiology*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50		**Group A** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D Independent Learning**	**Lecture** Indian Medicine *Elif Vatanoğlu Lutz*	**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Laboratory / Med. Biology** Nucleic Acid Purification *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
12.00- 12.50			**Lecture** Indian Medicine *Elif Vatanoğlu Lutz*	**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Gametogenesis; Oogenesis; Ovarian Cycle *Alev Cumbul*	**Lecture** Radioisotopes in Medicine *Bilge Güvenç Tuna*	**Laboratory / Med. Biology** Nucleic Acid Purification *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50			**Lecture** Oogenesis; Follicular and Menstruel Cycle *Alev Cumbul*	**Lecture** Biological mechanisms of Radiation *Bilge Güvenç Tuna*	**Group A Indepndent Learning** / **Group B Indepndent Learning** / **Group C**
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Mutation and Polymorphism *Turgay İsbir*	**Independent Learning**	**Independent Learning**
17.00-17.50			**Lecture** Mutation and Polymorphism *Turgay İsbir*		

COMMITTEE II – CELL
VI. 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	**Independent Learning**	**Clinical Skills Learning ICP I** Patient-Causalty Transportation /Bandaging Techniques *Özlem Tanrıöver & Hülya Akan*	**Lecture** Amines *Ece Gürdal Hakgör*	**Lecture** General Structure of Parasites *Medical Microbiology*	**Laboratory / Med. Biology** Epigenetics (Population Genetics) *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
10.00- 10.50		**Group A Independent Learning** / **Group B** / **Group C Independent Learning** / **Group D Independent Learning**	**Lecture** Amines *Ece Gürdal Hakgör*	**Lecture** General Structure of Parasites *Medical Microbiology*	**Group A** / **Group B Indep.endent Learning** / **Group C Independent Learning**
11.00- 11.50			**Lecture** Greek Medicine and Contemporary Medicine *Elif Vatanoğlu Lutz*	**Lecture** Implantation *Alev Cumbul*	**Laboratory / Med. Biology** Epigenetics (Population Genetics) *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
12.00- 12.50		**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Lecture** Greek Medicine and Contemporary Medicine *Elif Vatanoğlu Lutz*	**Lecture** Medical Imaging: Applications of X-ray Attenuation & Detection *Bilge Güvenç Tuna*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Fertilization *Ünal Uslu*	**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Laboratory / Med. Biology** Epigenetics (Population Genetics) *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50			**Lecture** Blastulation *Ünal Uslu*	**Lecture** Viscocranium *Erdem Söztutar*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Medical Imaging: Nuclear Medicine *Bilge Güvenç Tuna*	**Lecture** Viscocranium *Erdem Söztutar*	**Independent Learning**
17.00-17.50			**Independent Learning**	**Independent Learning**	

COMMITTEE II – CELL
VII. 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	**Lecture** Viscocranium *Erdem Söztutar*	**Independent Learning**	**Lecture** Steroids *Ece Güldal Hakgör*	**Lecture** Biological Aspects of Development *Turgay İsbir*	**Laboratory / Physiology** Osmosis & Diffusion *Mehtap Kaçar*
10.00- 10.50	**Laboratory / Anatomy** Viscocranium *Yüksel Aydar & Erdem Söztutar* **Group B** / **Group A Independent Learning**	**Clinical Skills Learning ICP I** Patient-Causalty Transportation / Bandaging Techniques *Özlem Tanrıöver & Hülya Akan*	**Lecture** Steroids *Ece Güldal Hakgör*	**Lecture** Biological Aspects of Development *Turgay İsbir*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50	**Group B Independent Learning** / **Group A**		**Laboratory / Med. Biology** Gene İdentification in Cancer *Turgay İsbir* *Soner Doğan & Deniz Kıraç*	**Lecture** Lasers in Medicine *Bilge Güvenç Tuna*	**Laboratory / Physiology** Osmosis & Diffusion *Mehtap Kaçar*
12.00- 12.50	**Independent Learning**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C** / **Group D Independent Learning**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**	**Lecture** Lasers in Medicine *Bilge Güvenç Tuna*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Med. Biology** Gene identification in Cancer *Turgay İsbir* *Soner Doğan & Deniz Kıraç*	**Lecture** Gastrulation; Primitive Streak, Notochord Formation *Alev Cumbul*	**Laboratory / Physiology** Osmosis & Diffusion *Mehtap Kaçar*
15.00- 15.50			**Group A Independent Learning** / **Group B** / **Group C Independent Learning**	**Lecture** Osmotic Pressure and Permeability of The Cell Membrane *Bayram Yılmaz*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & Hıstory of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Laboratory / Med. Biology** Gene identification in Cancer *Turgay İsbir* *Soner Doğan & Deniz Kıraç*	**Lecture** Transport of Substances Through the Cell Membrane *Bayram Yılmaz*	**Independent Learning**
17.00-17.50			**Group A** / **Group B Independent Learning** / **Grup C Independent Learning**	**Independent Learning**	

COMMITTEE II – CELL

VIII. WEEK / 26 – 30 Dec 2016

<table>
<tr><th></th><th>Monday
26-Dec-2016</th><th>Tuesday
27-Dec-2016</th><th>Wednesday
28-Dec-2016</th><th>Thursday
29-Dec-2016</th><th>Friday
30-Dec-2016</th></tr>
<tr><td>09.00- 09.50</td><td colspan="2" rowspan="3">Clinical Skills Learning
ICP I
Patient-Causalty Transportation / Bandaging Techniques
Özlem Tanrıöver & Hülya Akan
Group A Independent Learning
Group B Independent Learning
Group C Independent Learning
Group D</td><td rowspan="3">Independent Learning</td><td>Assessment Session
Medical Biology
(Practical Exam)</td><td rowspan="3">Independent Learning</td><td rowspan="3">Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="2">Assessment Session
Physiology
(Practical Exam)</td></tr>
<tr><td>11.00- 11.50</td></tr>
<tr><td>12.00- 12.50</td><td colspan="2">Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>13.00- 13.50</td><td colspan="2" rowspan="4">Independent Learning</td><td rowspan="2">Assessment Session
Anatomy
(Practical Exam)</td><td rowspan="4">Independent Learning</td><td>Independent Learning</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Assessment Session
Committee II
(MCQ-EMQ)</td></tr>
<tr><td>15.00- 15.50</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>16.00- 16.50</td><td>Program Evaluation Session
Review of the Exam Questions, Evaluation of the Committee II Program
Head of Committee</td></tr>
<tr><td>17.00-17.50</td><td colspan="2">Independent Learning</td><td></td></tr>
</table>

COMMITTEE III - TISSUE I

DISTRIBUTION of LECTURE HOURS

January 02, 2017 - February 24, 2017

COMMITTEE DURATION: 6 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	PBL	TOTAL
	DISCIPLINE	***51***	***18***	***7***	***76***
	ANATOMY	16	2Grx5H		21
	BIOPHYSICS	7	0		7
	HISTOLOGY & EMBRYOLOGY	12	2Grx5H		17
	MEDICAL HISTORY & ETHICS	6	0		6
	PHYSIOLOGY	8	3Grx8H		16
	SCIENTIFIC PROJECT I	2	0		2

MD 102	**ICP-I**	9	1Grx3H		9
MED 103	**ANATOMICAL DRAWING**	0	8		8
HTR 301-302	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	8	0		8
	ELECTIVE COURSE	6	0		6
TKL 201-202	**TURKISH LANGUAGE & LITERATURE**	8	0		8

	TOTAL	**82**	**26**	**7**	**115**

Coordination Committee	Head	Bayram YILMAZ PhD. Prof.
	Secretary	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
	Member	Erdem SÖZTUTAR, MD, Lecturer
	Member	Alev CUMBUL PhD Assist. Prof.

PBL Coordinators	Coordinator	Sabri KAMAHLI, Prof. Dr.
	Coordinator	İbrahim Çağatay ACUNER, Assoc. Prof.Dr.
	Co-Coordinator	Serdar ÖZDEMİR, Assist. Prof. Dr.

COMMITTEE III –TISSUE I
LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**FACULTY**
ANATOMY	Yüksel AYDAR, PhD, Prof.
	Erdem SÖZTUTAR, MD, Lecturer
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD, Assoc. Prof.
	Alev CUMBUL, PhD, Assist. Prof.
	Aylin YABA UÇAR, PhD, Assist. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU LUTZ, MD, Assoc. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
	Mehtap KAÇAR, MD, PhD, Assoc. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD, Assoc. Prof.

INTRODUCTION TO CLINICAL PRACTICE I (ICP-I)	Güldal İZBIRAK, MD, Assoc.Prof.
	Hülya AKAN, MD, Assoc.Prof.
	Özlem TANRIÖVER, MD, Assoc.Prof.
	Arzu AKALIN, MD, Assist. Prof.
ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist.Prof.
ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Davut EKŞİ, PhD, Instructor
TURKISH LANGUAGE & LITERATURE	Bedri SELİMHOCAOĞLU, Instructor

COMMITTEE III –TISSUE I
AIM AND LEARNING OBJECTIVES

AIM

1. **to convey** basic terms and concepts for anatomy, physiology, embryology, histology, biophysics, behavioral sciences, and medical ethics***.***
2. ***to convey*** knowledge on four fundamental tissues forming the body, cells forming these tissues.
3. ***to convey*** knowledge on excitation and contraction mechanisms of muscles***.***
4. ***to convey*** knowledge on system-specific (pelvis, joints of vertebrae, bones and joints of lower and upper extremities) anatomy and its clinical applications***.***

LEARNING OBJECTIVES

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

1.0. explain anatomical characteristics of joints in general.
2.0. define anatomical properties and clinical implications for skull bones, vertebrae and thorax.
3.0. describe the link between the anatomical characteristics of bones and joints of lower and upper extremities and their clinical reflections.
4.0. explain muscle contraction mechanism on the basis of Sliding Filament Theory.
5.0. know basic properties of digital biomedical signals
6.0. explain link between structure and role of tissues.
7.0. for epithel tissue;
  7.1. explain general specification,
  7.2. recognize eight covering epithelium subtypes,
  7.3. explain histological basis on which glands are classified
8.0. for muscle tissue;
  8.1. describe histological characteristics and relate main function,
  8.2. summarize the main similarities and differences between three different types of muscle.
9.0. for connective tissue;
  9.1. explain general specification.
  9.2. classify connective tissue proper.
10.0. list histologic properties of blood
11.0. define the correlation between ethics and philosophy in relation with main ethical theories.
12.0. define membrane and action potentials and sodium/potassium pumps.
13.0. list mechanisms of excitation and contraction in skeletal muscle.
14.0. explain role of autonomous nervous system in excitation of smooth muscle and heart muscle.
15.0. define EMG.
16.0. explain case scenario related basic medical science topics in a clinical contex.

COMMITTEE III –TISSUE I
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	LECTURER / INSTRUCTOR	DISTRUBITION of MCQs			
		CE	FE	IE	TOTAL
1.0, 2.0, 3.0	Dr. Y. Aydar Dr. E. Söztutar	29	7	7	43
4.0, 5.0	Dr. B.Güvenç Tuna	13	3	3	19
6.0, -10.0	Dr. Ü. Uslu Dr. A. Cumbul	22	6	6	34
11.0	Dr. E. Vatanoğlu	11	3	3	17
12.0 -15.0	Dr. B. Yılmaz	15	3	3	21
	TOTAL	**90**	**22/200#**	**22/200#**	**134**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EMQ POINTS
		CE
1.0 - 2.0 - 3.0	ANATOMY	3
4.0, 5.0, 16.0	BIOPHYSICS	2
6.0 – 10.0, 16.0	HISTOLOGY & EMBRYOLOGY	3
12.0 -15.0, 16.0	PHYSIOLOGY	2
	TOTAL	**10**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS	
		DOPS	LPE
1.0 - 2.0 - 3.0	ANATOMY	**-**	30
6.0 – 10.0	HISTOLOGY & EMBRYOLOGY	30	-
12.0 -15.0	PHYSIOLOGY	-	40
	TOTAL	**100**	

Total number of MCQs are 90 (each question has equal value)
Total number of EMQs are 10 (each question has equal value)
Total value of DOPS and LPE are equal to 100 points
Learning objectives related to PBL sessions are assesed by EMQs of related disiplines.
CS = 95% of [90% CE (MCQ+EMQ) + 10% (DOPS+LPE)] + 5% of PBL-P
#In FE and ICE **22** out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:
MCQ: Multiple Choice Question
EMQ: Extending Matching Question
DOPS: Direct Observation of Procedural Skills
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
PBL-P: Evaluation of PBL Student's Performance

COMMITTEE III - TISSUE I
I. WEEK / 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	**PBL Session**	**Independent Learning**	**Independent Learning**	**Lecture** Skeletal Muscle Physiology *Bayram Yılmaz*	**PBL Session**
10.00- 10.50		**Lecture / ICP I** Introduction to Communication Skills *Özlem Tanrıöver*		**Lecture** Neuromuscular Transmission *Bayram Yılmaz*	
11.00- 11.50		**Lecture / ICP I** Basic Communication Skills *Arzu Akalın*	**Lecture** Membrane Potentials and Action Potentials *Bayram Yılmaz*	**Laboratory / Histology Assessment (DOPs)** Histology of Epithel Tissue	**Independent Learning**
12.00- 12.50	**Independent Learning**	**Lecture / ICP I** Basic Communication Skills *Arzu Akalın*	**Lecture** Membrane Potentials and Action Potentials *Bayram Yılmaz*	**Group A Independent Learning** / **Group B**	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Introductory Session** Introduction to Committee III *Secretary of Committee III*	**Lecture** Introduction to Arthrology *Yüksel Aydar*	**Lecture** Histology of Covering Epithelium; Surface Specification *Ünal Uslu*	**Laboratory / Histology Assessment (DOPs)** Histology of Epithel Tissue	**Lecture** Histology of Muscle Tissue; General Specification *Alev Cumbul*
15.00- 15.50	**Lecture** Histology of Covering Epithelium; Structure, Classification *Ünal Uslu*	**Lecture** Introduction to Arthrology *Yüksel Aydar*	**Lecture** Histology of Glandular Epithelium *Ünal Uslu*	**Group A** / **Group B Independent Learning**	**Lecture** Histology of Striated Skeletal Muscle *Alev Cumbul*
16.00- 16.50	**Assessment Session** **Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Lecture** Joints of the Upper Limb *Yüksel Aydar*	**Independent Learning**	**Independent Learning**	**Lecture** Joints of the upper limb *Yüksel Aydar*
17.00-17.50		**Independent Learning**			**Lecture** Joints of the upper limb *Yüksel Aydar*

COMMITTEE III - TISSUE I
II. 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	**Independent Learning**	**Independent Learning**	**PBL Session**	**Independent Learning**	**Laboratory / Physiology** EMG I *Bayram Yılmaz*
10.00- 10.50	**Laboratory / Anatomy** Joints of the upper limb *Yüksel Aydar & Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Lecture / ICP I** The Medical Interview *Güldal İzbırak*		**Lecture** Contractile Machinery; Sliding Filament Theory *Bilge Güvenç Tuna*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50	**Group A Independent Learning** / **Group B**	**Lecture / ICP I** The Medical Interview *Güldal İzbırak*	**Lecture** Greek Medicine and Contemporary Medicine *Elif Vatanoğlu Lutz*	**Lecture** Joints of the Vertebral Column *Yüksel Aydar*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
12.00- 12.50	**Independent Learning**	**Lecture / ICP I** Interviewing Techniques *Güldal İzbırak*	**Lecture** Greek Medicine and Contemporary Medicine *Elif Vatanoğlu Lutz*	**Lecture** Joints of the Axial Skeleton *Yüksel Aydar*	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Histology of Heart & Smooth Muscle *Alev Cumbul*	**Lecture** Joints of the Lower Limb *Yüksel Aydar*	**Laboratory / Histology Assessment (DOPs)** Histology of Muscle Tissue	**Laboratory/Anatomy** Joints of the lower limb *Yüksel Aydar & Erdem Soztutar* **Group A** / **Group B Independent Learning**	**Laboratory / Physiology** EMG I *Bayram Yılmaz*
15.00- 15.50	**Lecture** Development of the Muscular System *Alev Cumbul*	**Lecture** Joints of the Lower Limb *Yüksel Aydar*	**Group A** / **Group B Independent Learning**	**Group A Independent Learning** / **Group B**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Independent Learning**	**Lecture** Joints of the Lower Limb *Yüksel Aydar*	**Laboratory / Histology Assessment (DOPs)** Histology of Muscle Tissue	**Independent Learning**	**Independent Learning**
17.00-17.50		**Independent Learning**	**Group A Independent Learning** / **Group B**		

MIDTERM BREAK

16 JAN 2017 - 27 JAN 2017

COMMITTEE III - TISSUE I
III. 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	**Laboratory / Anatomy** Joints of the Vertebral Column and Axial Skeleton *Yüksel Aydar & Erdem Soztutar* **Group A** / **Group B Independent Learning**	**Lecture** Histology of Connective Tissue; Extracellular Matrix *Alev Cumbul*	**Lecture** Introduction to Ethics *Elif Vatanoğlu Lutz*	**Independent Learning**	**Laboratory / Physiology** EMG II *Bayram Yılmaz*
10.00- 10.50	**Group A Independent Learning** / **Group B**	**Lecture / ICP I** The Medical History *Hülya Akan*	**Lecture** Introduction to Ethics *Elif Vatanoğlu Lutz*	**Independent Learning**	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50	**Independent Learning**	**Lecture / ICP I** The Medical History *Hülya Akan*	**Lecture** Muscle Mechanics; Muscular Force *Bilge Güvenç Tuna*	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Laboratory / Physiology** EMG II *Bayram Yılmaz*
12.00- 12.50	**Lunch Break**	**Lecture / ICP I** Giving Information *Özlem Tanrıöver*	**Lecture** Mechanical Powers of Cardiac and Skeletal Muscles *Bilge Güvenç Tuna*	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**PROGRAM IMPROVEMENT SESSION** *Phase Coordinator*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Joints of the Cranium and Fontanelles *Yüksel Aydar*	**Lecture** Histology of Connective Tissue; Cells *Alev Cumbul*	**Laboratory / Physiology** EMG II *Bayram Yılmaz*
15.00- 15.50			**Lecture** Joints of the Cranium and Fontanelles *Yüksel Aydar*	**Lecture** Histology of Connective Tissue Proper; Types *Alev Cumbul*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Independent Learning**	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Lecture** Smooth Muscle Physiology *Bayram Yılmaz*	**ELECTIVE WEEK I**	**Independent Learning**
17.00-17.50			**Lecture** Smooth Muscle Physiology *Bayram Yılmaz*		

COMMITTEE III - TISSUE I
IV. WEEK / 06 – 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**	**Independent Learning**	**Lecture** Introduction to Ethics *Elif Vatanoğlu Lutz*	**Lecture** Physiology of Cardiac Muscle *Bayram Yılmaz*	**Laboratory / Physiology** Smooth Muscle Contractility *Bayram Yılmaz*
10.00- 10.50	**Laboratory/Anatomy** Joints of the Cranium and Fontanelles *Yüksel Aydar & Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Assessment Session** **ICP I** (MCQ-EMQ)	**Lecture** Introduction to Ethics *Elif Vatanoğlu Lutz*	**Lecture** Physiology of Cardiac Muscle *Bayram Yılmaz*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50	**Group A** / **Group B Independent Learning**		**Lecture** Digital Recording of Biomedical Signals *Bilge Güvenç Tuna*	**Lecture** Muscles of the Back *Erdem Söztutar*	**Laboratory / Physiology** Smooth Muscle Contractility *Bayram Yılmaz*
12.00- 12.50	**Independent Learning**		**Lecture** Digital Recording of Biomedical Signals *Bilge Güvenç Tuna*	**Lecture** Muscles of the Back and Nape *Erdem Söztutar*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Introduction to Myology *Erdem Söztutar*	**Lecture** Biophysics of Smooth Muscle Contraction *Bilge Güvenç Tuna*	**Laboratory / Physiology** Smooth Muscle Contractility *Bayram Yılmaz*
15.00- 15.50			**Lecture** Introduction to Myology *Erdem Söztutar*	**Lecture** Biophysics of Smooth Muscle Contraction *Bilge Güvenç Tuna*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Lecture** Blood; RBC and Platelets *Ünal Uslu*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Independent Learning**	**ELECTIVE WEEK II**	**Independent Learning**
17.00-17.50	**Lecture** Blood WBC, Blood Smear *Ünal Uslu*				

COMMITTEE III - TISSUE I
V. WEEK / 13 Feb – 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**	**Independent Learning**	**Laboratory / Histology Assessment (DOPs)** Make up Session	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Laboratory / Anatomy** Muscles of the Back and Nape *Yüksel Aydar & Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver & Hülya Akan*			
11.00- 11.50	**Group A Independent Learning** / **Group B**	**Group A** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D Independent Learning**	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Bayram Yılmaz*		
12.00- 12.50	**Independent Learning**		**Group A** / **Group B Independent Learning** / **Group C Independent Learning**		
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Bayram Yılmaz*	**Independent Learning**	**Independent Learning**
15.00- 15.50			**Group A Independent Learning** / **Group B** / **Group C Independent Learning**		
16.00- 16.50	**Independent Learning**	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**	**ELECTIVE WEEK III**	
17.00-17.50					

COMMITTEE III - TISSUE I
VI. WEEK / 20 – 24 Feb 2016

	Monday 20-Feb-2017	Tuesday 21-Feb-2017	Wednesday 22-Feb-2017	Thursday 23-Feb-2017	Friday 24-Feb-2017
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Assessment Session** Anatomy (Practical Exam)				**Assessment Session** **Committee III** (MCQ-EMQ)
11.00- 11.50		**Assessment Session** Physiology (Practical Exam)			
12.00- 12.50					
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Independent Learning**	**Independent Learning**	**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Committee III Program *Head of Committee*
15.00- 15.50					
16.00- 16.50	**Independent Learning**	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*			**Independent Learning**
17.00-17.50					

COMMITTEE IV - TISSUE II

DISTRIBUTION of LECTURE HOURS

February 29, 2017 - April 21, 2017

COMMITTEE DURATION: 8 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	TOTAL
	DISCIPLINE	*105*	*18*	*123*
	ANATOMY	22	2Grx9H	31
	BEHAVIORAL SCIENCES	14	0	14
	BIOCHEMISTRY	36	3Grx2H	38
	BIOPHYSICS	4	0	4
	BIOSTATISTICS	12	0	12
	HISTOLOGY & EMBRYOLOGY	7	2Grx5H	12
	MEDICAL BIOLOGY	8	3Grx2H	10
	SCIENTIFIC PROJECT I	2	0	2

MED 103	**ANATOMICAL DRAWING**	0	16	16
MED 102	**ICP-I**	0	21	21
HTR 301-302	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	16	0	16
TKL 201-202	**TURKISH LANGUAGE & LITERATURE**	16	0	16
	ELECTIVE COURSE	14	0	14

	TOTAL	**151**	**55**	**206**

Coordination Committee	Head	İnci ÖZDEN, PhD, Prof.
	Secretary	Aylin YABA UÇAR, PhD, Assist. Prof.
	Member	Deniz KIRAÇ, PhD, Assist. Prof.
	Member	Erdem SÖZTUTAR, MD, Lecturer

COMMITTEE IV – TISSUE II
LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**FACULTY**
ANATOMY	Yüksel AYDAR, PhD, Prof.
	Erdem SÖZTUTAR, MD, Lecturer
BEHAVIORAL SCIENCES	
BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof.
	Altay Burak DALAN, PhD, Assoc. Prof
	Jale ÇOBAN, MD, Prof.
BIOPHYSICS	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.
	Aylin YABA UÇAR, PhD, Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Deniz KIRAÇ, PhD, Assist. Prof.
	Soner DOĞAN, PhD, Assoc. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD, Assoc. Prof.

INTRODUCTION TO CLINICAL PRACTICE I (ICP-I)	Güldal İZBIRAK, MD, Assoc.Prof.
	Hülya AKAN, MD, Assoc.Prof.
	Özlem TANRIÖVER, MD, Assoc.Prof.
	Arzu AKALIN, MD, Assist. Prof.
ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist.Prof.
ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Davut EKŞİ, PhD, Instructor
HUMANITIES	
TURKISH LANGUAGE & LITERATURE	Bedri SELİMHOCAOĞLU, Instructor

COMMITTEE IV – TISSUE II
AIM AND LEARNING OBJECTIVES

AIM

1. **to convey** basic terms and concepts for anatomy, embryology, histology, biostatistics, biophysics, biochemistry, behavioral sciences, and medical biology.
2. **to convey** knowledge on four fundamental tissues forming the body, cells forming these tissues and the intercellular material.
3. **to convey** knowledge on system-specific (upper extremities, back and chest area muscles, vascular and nervous innervations) anatomy and its clinical applications.
4. ***to convey*** knowledge on basic metabolic pathways of the body.

LEARNING OBJECTIVES

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

1.0. define the basic characteristics of the anatomy of the peripheral nervous system, muscular and vascular systems.
2.0. describe anatomical features, vessels, nervous innervations of upper extremities, and back muscles
3.0. describe the clinical implications of the anatomical features of the upper limb.
4.0. list general paradigms and basic concepts of psychology.
5.0. define consciousness, altered states of consciousness, stages of sleep, and measurement of intelligence.
6.0. describe Piaget's cognitive development theory, attitudes, cognitive dissonance, experiments on conformity, obedience, halo effect, and management of authority.
7.0. explain classical conditioning, operant conditioning, punishment, reinforcement, reinforcement schedules, extinction, spontaneous recovery, and social-cognitive learning.
8.0. for carbohydrates, lipids, proteins, and nucleotides;
    8.1. describe their structure.
    8.2. define their structural and biochemical functions in tissues.
9.0. for enzymes;
    9.1. explain the general properties of enzymes.
    9.2. describe the kinetics of enzymes.
    9.3. list the enzymes of the respiratory chain in the order of their arrangement.
    9.4. explain the function of each enzyme of the respiratory chain
    9.5. explain the functions of enzymes involved in removal of Reactive Oxygen Species (ROS).
10.0. for substrate level phosphorylation;
    10.1. explain the mechanism.
    10.2. list the metabolic pathways.
11.0. explain basic physical properties of biomaterials (such as bone and vessels)
12.0. list distribution types and properties in statistics.
13.0. explain descriptive statistics.
14.0. for cartilage and bone tissue;
    14.1. explain general microscopic characteristics.
    14.2. list ossification steps.
15.0. for nervous tissue;
    15.1. define general histologic structure.
    15.2. list neuron and glia types.
16.0. recognize the components of extracellular matrix and their interactions with each other.

COMMITTEE IV – TISSUE II
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	LECTURER / INSTRUCTOR	DISTRUBITION of MCQs			
		CE	FE	IE	TOTAL
1.0, 2.0, 3.0	Dr. E. Söztutar Dr. Y. Aydar	19	10	10	39
4.0, - 7.0	Behavioral Science	12	7	7	26
8.0 – 10.0	Dr. İ. Özden Dr. B. Dalan	32	17	17	66
11.0	Dr. B.G. Tuna	4	2	2	8
12.0,13.0	Dr. Ç. Kaspar	-	6	6	12
14.0 – 15.0 14.0 – 15.0	Dr. Ü. Uslu Dr. A. Cumbul	6	3	3	12
16.0	Dr. T. İsbir	7	4	4	15
	TOTAL	**80**	**49/200#**	**49/200#**	**178**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EMQ POINTS	
		CE	
		EMQ	MEQ*
1.0 - 2.0 - 3.0	ANATOMY	3	-
8.0 – 10.0	BIOCHEMISTRY	6	-
12.0,13.0	BIOSTATISTICS	-	10
14.0 – 15.0	HISTOLOGY & EMBRYOLOGY	1	-
	TOTAL	**10**	**10**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS	
		DOPS	LPE
1.0 - 2.0 - 3.0	ANATOMY	-	50
8.0 – 10.0	BIOCHEMISTRY	-	10
14.0 – 15.0	HISTOLOGY & EMBRYOLOGY	30	-
16.0	MEDICAL BIOLOGY	-	10
	TOTAL	**100**	

Total number of MCQs are 90 (each question has equal value)
Total number of EMQs are 10 (each question has equal value)
Total value of DOPS and LPE are equal to 100 points
Commitee Score (CS) = 90% CE (MCQ+EMQ+MEQ) + 10% (DOPS+LPE)
#In FE and ICE **49** out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:
MCQ: Multiple Choice Question
EMQ: Extending Matching Question
MEQ: Modified Essay Questions * Biostatistics exam will be given separately before the committee exam date.
DOPS: Direct Observation of Procedural Skills
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam

COMMITTEE IV -TISSUE II
I. WEEK / 27 Feb – 03 Mar 2017

	Monday 27-Feb-2017	Tuesday 28-Feb-2017	Wednesday 01-Mar-2017	Thursday 02-Mar-2017	Friday 03-Mar-2017
09.00- 09.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver & Hülya Akan*	**Independent Learning**	**Lecture** Histology of Cartilage Tissue *Alev Cumbul*	**Independent Learning**
10.00- 10.50		**Group A Independent Learning** / **Group B** / **Group C Independent Learning** / **Group D Independent Learning**	**Lecture** Classification of Carbohydrates, General Features of Carbohydrates *İnci Özden*	**Lecture** Monosaccharide Derivatives, Disaccharides, Polysaccharides, Starch, Glycogen *İnci Özden*	**Lecture** Glycosaminoglycans, Structures and Functions *İnci Özden*
11.00- 11.50			**Lecture** Classification of Carbohydrates, General Features of Carbohydrates *İnci Özden*	**Lecture** Monosaccharide Derivatives, Disaccharides, Polysaccharides, Starch, Glycogen *İnci Özden*	**Lecture** Glycosaminoglycans, Structures and Functions *İnci Özden*
12.00- 12.50		**Introductory Session** Introduction to Commitee IV *Head of Committee IV*	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lecture** Histology of Adipose Tissue *Alev Cumbul*	**Behavioral Science / Lecture** Life Cycle: Pregnancy through Preschool *Instructors*	**Lecture** Extracellular Matrix *Turgay İsbir*
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Muscles of the Shoulder Girdle *Erdem Söztutar*	**Behavioral Science / Lecture** Life Cycle; School age, Adolescence and Adulthood *Instructors*	**Lecture** Extracellular Matrix *Turgay İsbir*
15.00- 15.50			**Lecture** Muscles of the Shoulder Girdle and Axilla *Erdem Söztutar*	**Independent Learning**	**Independent Learning**
16.00- 16.50	**Lecture** Introduction to Peripheral Nervous System *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Laboratory / Anatomy** Muscles of the Shoulder Girdle and Axilla *Erdem Söztutar & Sinem Gergin* **Group A** / **Group B Independent Learning**	**ELECTIVE WEEK IV**	
17.00-17.50	**Lecture** Spinal nerves *Erdem Söztutar*		**Laboratory / Anatomy** Muscles of the Shoulder Girdle and Axilla *Erdem Söztutar & Sinem Gergin* **Group A Independent Learning** / **Group B**		

COMMITTEE IV - TISSUE II
II. WEEK / 06 – 10 Mar 2017

	Monday 06-Mar-2017	Tuesday 07-Mar-2017	Wednesday 08-Mar-2017	Thursday 09-Mar-2017	Friday 10-Mar-2017
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture** Classification of Lipids, General Features of Lipids *İnci Özden*	**Independent Learning**	**Independent Learning**
10.00- 10.50		**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver & Hülya Akan*	**Lecture** Classification of Lipids, General Features of Lipids *İnci Özden*	**Lecture** Saturated and Unsaturated Fatty Acids, Essential Fatty Acids *İnci Özden*	**Lecture** Triacylglycerols *İnci Özden*
11.00- 11.50		**Group A Independent Learning** / **Group B Independent Learning** / **Group C** / **Group D Independent Learning**	**Lecture** Extracellular Matrix *Turgay İsbir*	**Lecture** Saturated and Unsaturated Fatty Acids, Essential Fatty Acids *İnci Özden*	**Lecture** Triacylglycerols *İnci Özden*
12.00- 12.50			**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lecture** Extracellular Matrix *Turgay İsbir*	**Behavioral Science / Lecture** Life Cycle; Aging, Death and Bereavement *Instructors*	**Lecture** Main Concepts in Biostatistics *E.Çiğdem Kaspar*
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Anatomy** Muscles of the Arm *Erdem Söztutar & Sinem Gergin* **Group A Independent Learning** / **Group B**	**Behavioral Science / Lecture** Life Cycle; Aging, Death and Bereavement *Instructors*	**Lecture** Main Concepts in Biostatistics *E.Çiğdem Kaspar*
15.00- 15.50			**Group A** / **Group B Independent Learning**	**Lecture** Mechanical Properties of Biomaterials *Bilge Güvenç Tuna*	**Lecture** Extracellular Matrix *Turgay İsbir*
16.00- 16.50	**Lecture** Muscles of the Arm *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Independent Learning**	**ELECTIVE WEEK V**	**Lecture** Extracellular Matrix *Turgay İsbir*
17.00-17.50	**Lecture** Muscles of the Arm *Erdem Söztutar*				**Independent Learning**

COMMITTEE IV - TISSUE II
III. WEEK / 13 – 17 Mar 2017

	Monday 13-Mar-2017	Tuesday 14-Mar-2017	Wednesday 15-Mar-2017	Thursday 16-Mar-2017	Friday 17-Mar-2017
09.00- 09.50	**Laboratory / Histology Assessment (DOPs)** Histology of Connective and Cartilage Tissue	**PHYSICIAN'S DAY**	**Lecture** Glycerophospholipids, Sphingophospholipids *İnci Özden*	**Lecture** Development of the Axial Skeleton and Limb *Alev Cumbul*	**Lecture** Stress-Strain, Stiffness *Bilge Güvenç Tuna*
10.00- 10.50	**Group A Independent Learning** / **Group B**		**Lecture** Glycerophospholipids, Sphingophospholipids *İnci Özden*	**Lecture** Isoprene Derivative, Steroids, Bile Acids *İnci Özden*	**Lecture** Eicosanoids *İnci Özden*
11.00- 11.50	**Group A** / **Group B Independent Learning**		**Independent Learning**	**Lecture** Isoprene Derivatives, Steroids, Bile Acids *İnci Özden*	**Lecture** Eicosanoids *İnci Özden*
12.00- 12.50		**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Lunch Break**	**WHITE COAT CEREMONY**	**Lecture** Elasticity *Bilge Güvenç Tuna*	**Behavioral Science / Lecture** The Biological Bases of Behavior *Instructors*	**Lecture** Frequency Distributions *E.Çiğdem Kaspar*
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*		**Lecture** Muscles of the Forearm *Yüksel Aydar*	**Behavioral Science / Lecture** The Biological Bases of Behavior *Instructors*	**Lecture** Graphics *E.Çiğdem Kaspar*
15.00- 15.50			**Lecture** Muscles of the Forearm *Yüksel Aydar*	**Lecture** Frequency Distributions *E.Çiğdem Kaspar*	**Lecture** Measures of Central Tendencies *E.Çiğdem Kaspar*
16.00- 16.50	**Lecture** Histology of Bone Tissue; Microscopic Structure *Ünal Uslu*		**Laboratory / Anatomy** Muscles of the Forearm *Yüksel Aydar & Sinem Gergin* **Group A** / **Group B Independent Learning**	**ELECTIVE WEEK VI**	**Independent Learning**
17.00-17.50	**Lecture** Histology of Bone Tissue; Ossification *Ünal Uslu*		**Laboratory / Anatomy** Muscles of the Forearm *Yüksel Aydar & Sinem Gergin* **Group A Independent Learning** / **Group B**		

COMMITTEE IV - TISSUE II
IV. WEEK / 20 – 24 Mar 2017

	Monday 20-Mar-2017	Tuesday 21-Mar-2017	Wednesday 22-Mar-2017	Thursday 23-Mar-2017	Friday 24-Mar-2017
09.00- 09.50	**Laboratory / Histology Assessment (DOPs)** Histology of Bone and Nervous Tissue	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Group A** **Group B Independent Learning**	**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills, General Approach *Özlem Tanrıöver & Hülya Akan*	**Lecture** Amino Acids, General Features, Classification *Burak Dalan*	**Lecture** Primary, Secondary, Tertiary, Quaternary Structures of Proteins *Burak Dalan*	**Lecture** Glycoproteins, Collagen, α-keratin *Burak Dalan*
11.00- 11.50	**Group A Independent Learning** **Group B**	**Group A Independent Learning** **Group B Independent Learning** **Group C Independent Learning** **Group D**	**Lecture** Amino Acids, General Features, Classification *Burak Dalan*	**Lecture** Primary, Secondary, Tertiary, Quaternary Structures of Proteins *Burak Dalan*	**Lecture** Glycoproteins, Collagen, α-keratin *Burak Dalan*
12.00- 12.50			**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Laboratory / Anatomy** Muscles of the Hand *Erdem Söztutar & Sinem Gergin* **Group A Independent Learning** / **Group B**	**Behavioral Science / Lecture** Sleep and Sleep Disorders *Instructors*	**Lecture** Measures of Central Tendencies *E.Çiğdem Kaspar*
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Group A** / **Group B Independent Learning**	**Behavioral Science / Lecture** Substance Releated Disorders *Instructors*	**Lecture** Measures of Central Tendencies *E.Çiğdem Kaspar*
15.00- 15.50			**Lecture** Brachial Plexus *Yüksel Aydar*	**Lecture** Shear stress, Poisson's Law *Bilge Güvenç Tuna*	**Lecture** Biology of Oxidative Stress *Turgay İsbir*
16.00- 16.50	**Lecture** Muscles of the Hand *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & Hıstory of Modern Turkey *Davut Ekşi*	**Lecture** Brachial Plexus *Yüksel Aydar*	**ELECTIVE WEEK VII**	**Lecture** Biology of Oxidative Stress *Turgay İsbir*
17.00-17.50	**Lecture** Muscles of the Hand *Erdem Söztutar*		**Independent Learning**		**Independent Learning**

COMMITTEE IV - TISSUE II
V. WEEK / 27 Mar– 31 Mar 2017

	Monday 27-Mar-2017	Tuesday 28-Mar-2017	Wednesday 29-Mar-2017	Thursday 30-Mar-2017	Friday 31-Mar-2017
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture** Nucleotides *İnci Özden*	**Laboratory / Anatomy** Muscles of the Pelvic Girdle *Erdem Söztutar & Sinem Gergin* **Group A Independent Learning** / **Group B**	**Laboratory / Med. Biology** Oxidative Stress and Antioxidant System *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
10.00- 10.50		**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Arzu Akalın*	**Lecture** Nucleotides *İnci Özden*	**Lecture** Enzymes, Kinetics,Regulatory Enzymes *İnci Özden*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50		**Group A** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D Independent Learning**	**Lecture** Measures of Central Dispersion *E.Çiğdem Kaspar*	**Lecture** Enzymes, Kinetics,Regulatory Enzymes *İnci Özden*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
12.00- 12.50			**Lecture** Measures of Central Dispersion *E.Çiğdem Kaspar*	**Lunch Break**	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Behavioral Science / Lecture** Psychoanalythic Theory and Defense Mechanism *Instructors*	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Muscles of The Pelvic Girdle (Gluteal Region) *Erdem Söztutar*	**Behavioral Science / Lecture** Psychoanalythic Theory and Defense Mechanism *Instructors*	**Laboratory / Med. Biology** Oxidative Stress and Antioxidant System *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50			**Lecture** Muscles of The Pelvic Girdle *Erdem Söztutar*	**Laboratory / Anatomy** Muscles of the Pelvic Girdle *Erdem Söztutar & Sinem Gergin* **Group A** / **Group B Independent Learning**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Lecture** Nerves of the Upper Limb *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & Hıstory of Modern Turkey *Davut Ekşi*	**Laboratory / Anatomy** Brachial Plexus, Nerves, and Vasculature of The Upper Limb *Erdem Söztutar & Sinem Gergin* **Group A** / **Group B Independent Learning**	**ELECTIVE WEEK VIII**	**Independent Learning**
17.00-17.50	**Lecture** Vasculature of the Upper Limb *Erdem Söztutar*		**Group A Independent Learning** / **Group B**		

COMMITTEE IV - TISSUE II
VI. WEEK / 03 – 07 Apr 2017

	Monday 03-Apr-2017	Tuesday 04-Apr-2017	Wednesday 05-Apr-2017	Thursday 06-Apr-2017	Friday 07-Apr-2017
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Lecture** Rates and Ratios *E.Çiğdem Kaspar*	**Lecture** Standardization of Disease Rates *E.Çiğdem Kaspar*
10.00- 10.50		**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Arzu Akalın*	**Lecture** International Enzyme Commission Classification of Enzymes *İnci Özden*	**Lecture** Enzymes of Antioxidant Activity *İnci Özden*	**Lecture** Histology of Nerveous Tissue: General Specification *Alev Cumbul*
11.00- 11.50		**Group A Independent Learning** / **Group B** / **Group C Independent Learning** / **Group D Independent Learning**	**Lecture** International Enzyme Commission Classification of Enzymes *İnci Özden*	**Lecture** Enzymes of Antioxidant Activity *İnci Özden*	**Lecture** Histology of Nerveous Tissue: Elements *Alev Cumbul*
12.00- 12.50			**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Laboratory / Histology** **Make Up Sesion**	**Behavioral Science / Lecture** Learning Theory *Instructors*	**Lecture** Muscles of the Leg *Yüksel Aydar & Erdem Söztutar*
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Group A** / **Group B Independent Learning**	**Behavioral Science / Lecture** Perception *Instructors*	**Lecture** Muscles of the Leg *Yüksel Aydar & Erdem Söztutar*
15.00- 15.50			**Group A Independent Learning** / **Group B**	**Independent Learning**	**Independent Learning**
16.00- 16.50	**Lecture** Muscles of the Thigh *Yüksel Aydar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Laboratory / Anatomy** Muscles of the Thigh *Yüksel Aydar & Erdem Söztutar* **Group A** / **Group B Independent Learning**		
17.00-17.50	**Lecture** Muscles of the Thigh *Yüksel Aydar*		**Laboratory / Anatomy** Muscles of the Thigh *Yüksel Aydar & Erdem Söztutar* **Group A Independent Learning** / **Group B**		

COMMITTEE IV - TISSUE II
VII. WEEK / 10 – 14 Apr 2017

	Monday 10-Apr-2017	Tuesday 11-Apr-2017	Wednesday 12-Apr-2017	Thursday 13-Apr-2017	Friday 14-Apr-2017
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Discussion (Large Group)** Overview *Erdem Söztutar*	**Independent Learning**
10.00- 10.50	**Laboratory / Anatomy** Muscles of the Leg *Yüksel Aydar & Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Arzu Akalın*	**Lecture** ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation *İnci Özden*	**Lecture** Oxidative Decarboxylation *İnci Özden*	**Laboratory / Biochemistry** Spectrophotometry *Jale Çoban & Müge Kopuz*
11.00- 11.50	**Group A** / **Group B Independent Learning**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C** / **Group D Independent Learning**	**Lecture** ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation *İnci Özden*	**Lecture** Oxidative Decarboxylation *İnci Özden*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
12.00- 12.50	**Independent Learning**		**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Laboratory / Anatomy** Muscles of the Foot *Yüksel Aydar & Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Behavioral Science / Lecture** Perception *Instructors*	**Laboratory / Biochemistry** Spectrophotometry *Jale Çoban & Müge Kopuz*
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Behavioral Science / Lecture** Emotion *Instructors*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
15.00- 15.50			**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Discussion (Large Group)** Overview *Erdem Söztutar*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Lecture** Muscles of the Foot *Yüksel Aydar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Laboratory / Anatomy** Muscles of the Foot *Yüksel Aydar & Erdem Söztutar*	**ELECTIVE WEEK IX**	
17.00-17.50	**Lecture** Muscles of the Foot *Yüksel Aydar*		**Group A Independent Learning** / **Group B**		**Independent Learning**

COMMITTEE IV - TISSUE II
VIII. WEEK / 17 – 21 Apr 2017

<table>
<tr><th></th><th>Monday
17-Apr-2017</th><th>Tuesday
18-Apr-2017</th><th>Wednesday
19-Apr-2017</th><th>Thursday
20-Apr-2017</th><th>Friday
21-Apr-2017</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="4">Assessment Session
Anatomy
(Practical Exam)</td><td>Independent Learning</td><td rowspan="2">Assessment Session
Medical Biology
(Practical Exam)</td><td rowspan="4">Independent Learning</td><td>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td>Clinical Skills Learning
ICP I
Patient-Doctor Communication Skills Using SPs
Güldal İzbırak & Arzu Akalın</td><td rowspan="3">Assessment Session
Committee IV
(MCQ-EMQ)</td></tr>
<tr><td>11.00- 11.50</td><td rowspan="2">Group A Independent Learning
Group B Independent Learning
Group C Independent Learning
Group D</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>12.00- 12.50</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Bedri Selimhocaoğlu</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="3">Independent Learning</td><td rowspan="3">Independent Learning</td><td rowspan="2">Program Evaluation Session
Review of the Exam Questions, Evaluation of the Committee IV Program
Head of Committee</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Assessment Session
Biostatistics
(Writing Exam-MEQ)</td><td rowspan="2">Common Compulsory Course
Ataturk's Principles &
Hıstory of Modern Turkey
Davut Ekşi</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td></tr>
</table>

COMMITTEE V - ENERGY AND METABOLISM

DISTRIBUTION of LECTURE HOURS

April 24, 2017 - June 02, 2017

COMMITTEE DURATION: 6 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	PBL	TOTAL
	DISCIPLINE	**82**	**14**	**7**	**103**
	ANATOMY	18	2Grx7H		23
	BEHAVIORAL SCIENCES	10	0		10
	BIOCHEMISTRY	26	3Grx2H		28
	BIOSTATISTICS	12	3Grx2H		14
	HISTOLOGY and EMBRYOLOGY	9	2Grx3H		12
	MEDICAL BIOLOGY	7	0		7

MED 103	**ANATOMICAL DRAWING**	0	8		8
HTR 301-302	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	8	0		8
TKL 201-202	**TURKISH LANGUAGE & LITERATURE**	8	0		8
	ELECTIVE COURSE	8	0		8

	TOTAL	**106**	**22**	**7**	**135**

Coordination Committee	Head	İnci ÖZDEN, Prof.
	Secretary	Bilge GÜVENÇ TUNA, Assist. Prof.,
	Member	Alev CUMBUL, Assist. Prof.
	Member	E. Çiğdem KASPAR, Assist. Prof.

PBL Coordinators	Coordinator	Sabri KAMAHLI, Prof. Dr.
	Coordinator	İbrahim Çağatay ACUNER, Assoc. Prof. Dr.
	Co-Coordinator	Serdar ÖZDEMİR, Assist. Prof. Dr.

COMMITTEE V - ENERGY AND METABOLISM

LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**FACULTY**
ANATOMY	Yüksel AYDAR, PhD, Prof.
	Erdem SÖZTUTAR, MD, Lecturer
BEHAVIORAL SCIENCES	
BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof.
BIOSTATISTICS	E. Çiğdem KASPAR, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD, Assoc. Prof.
	Alev CUMBUL, PhD, Assist. Prof.
	Aylin Yaba UÇAR, PhD, Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Deniz KIRAÇ, PhD, Assist. Prof.
	Soner DOĞAN, PhD, Assoc. Prof.

INTRODUCTION TO CLINICAL PRACTICE I (ICP-I)	Güldal İZBIRAK, MD, Assoc.Prof.
	Hülya AKAN, MD, Assoc.Prof.
	Özlem TANRIÖVER, MD, Assoc.Prof.
	Arzu AKALIN, MD, Assist. Prof.
ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist.Prof.
ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Davut EKŞİ, PhD, Instructor
HUMANITIES	
TURKISH LANGUAGE & LITERATURE	Bedri SELİMHOCAOĞLU, Instructor

COMMITTEE V - ENERGY AND METABOLISM

AIMS AND LEARNING OBJECTIVES

AIM

1.0 ***to convey*** basic terms and concepts of medical biology, biostatistics, embryology, histology, biochemistry, behavioral sciences, and medical biology.
2.0 ***to convey*** knowledge on basic energy mechanisms of the body.
3.0 ***to convey*** knowledge on process from zygote to formation of organs***.***
4.0 ***to convey*** knowledge on system-specific (lower extremities, muscles, vascular and nervous innervations) anatomy and its clinical applications.

LEARNING OBJECTIVES

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

1.0. describe the anatomical features, vessels, nervous innervations of lower extremities.
2.0. describe the clinical implications of the anatomical features of the lower limb.
3.0. explain psychodynamic and humanistic approaches to personality development.
4.0. define abnormality; compare and contrast psychological disorders on the five-axes DSM system.
5.0. explain ATP synthesis in human organism and enzymatic system that this synthesis occurs by.
6.0. list enzymes involved in blood clotting and their functions.
7.0. explain glycogen and glucose metabolisms**.**
8.0. for transport mechanisms in biological membranes;
  8.1. the permeability of biological membranes
  8.2. explain its correlation with ATP usage**.**
9.0. explain basic terms and concepts of epidemiology**.**
10.0. list methods of research planning and collecting data.
11.0. list probability distributions.
12.0. list developmental events respectively from somitogenesis to nerulation
13.0. list developmental events respectively from organogenesis to parturition
14.0. explain developmental link between embryonic layers and tissues that form organs.
15.0. describe contraception and assisted reproductive techniques.
16.0. associate the relation with congenital abnormalities and developmental processes.
17.0. define the features of mitochondrial genome and mutated mitochondrial genes.
18.0. explain case scenario related basic medical science topics in a clinical context.

COMMITTEE V - ENERGY AND METABOLISM

COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	LECTURER / INSTRUCTOR	DISTRUBITION of MCQ			
		CE	FE	IE	TOTAL
1.0, 2.0	Dr. E. Söztutar Dr. Y.Aydar	20	7	7	34
3.0, 4.0	Behavioral Science	11	4	4	19
5.0 - 8.0	Dr. İ. Özden	28	12	12	52
9.0, 11.0	Dr. Ç. Kaspar	-	6	6	12
12.0 - 16.0 12.0 - 16.0	Dr. Ü. Uslu Dr. A. Cumbul	9	4	4	17
17.0	Dr. T. İsbir	8	3	3	14
	TOTAL	**76**	**36/200#**	**36/200#**	**148**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EMQ and MEQ POINTS	
		CE	
		EMQ	MEQ
1.0 - 2.0	ANATOMY	3	
5.0 – 8.0, 18.0	BIOCHEMISTRY	5	
9.0 - 11.0	BIOSTATISTICS	-	14
12.0 - 16.0	HISTOLOGY & EMBRYOLOGY	1	
17.0, 18.0	MEDICAL BIOLOGY	1	
	TOTAL	**10**	**14**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS	
		DOPS	LPE
1.0 - 2.0	ANATOMY	-	60
5.0 - 8.0	BIOCHEMISTRY	-	20
12.0 - 16.0	HISTOLOGY & EMBRYOLOGY	20	
	TOTAL	**100**	

Total number of MCQs are 90 (each question has equal value)
Total number of EMQs are 10 (each question has equal value)
Total value of DOPS and LPE are equal to 100 points
Learning objectives related to PBL sessions are assesed by EMQs of related disiplines.
CS = 95% of [90% CE (MCQ+EMQ+MEQ) + 10% (DOPS+LPE)] + 5% of PBL-P

#In FE and ICE, **36** out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:
MCQ: Multiple Choice Question
EMQ: Extending Matching Question
MEQ: Modified Essay Questions * Biostatistics exam will be given separately before the committee exam date.
DOPS: Direct Observation of Procedural Skills
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
PBL-P: Evaluation of PBL Student's Performance

COMMITTEE V-ENERGY AND METABOLISM

I. WEEK / 24 – 28 Apr 2017

	Monday 24-Apr-2017	Tuesday 25-Apr-2017	Wednesday 26-Apr-2017	Thursday 27-Apr-2017	Friday 28-Apr-2017
09.00- 09.50	**PBL Session**	**Introductory Session** Introduction to Committee V *Secretary of Committee V*	**Independent Learning**	**Independent Learning**	**PBL Session**
10.00- 10.50		**Lecture** Genome of Mithocondria *Turgay İsbir*		**Lecture** Transport Through Biological Membranes *İnci Özden*	
11.00- 11.50		**Lecture** Transport Through Biological Membranes *İnci Özden*		**Lecture** Transport Through Biological Membranes *İnci Özden*	**Independent Learning**
12.00- 12.50	**Independent Learning**	**Lecture** Transport Through Biological Membranes *İnci Özden*	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lecture** Probability *E.Çiğdem Kaspar*	**Behavioral Science / Lecture** Culture and Illness *Instructors*	**Independent Learning**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Probability *E.Çiğdem Kaspar*	**Behavioral Science / Lecture** Culture and Illness *Instructors*	**Lecture** Theoretical Distributions *E.Çiğdem Kaspar*
15.00- 15.50			**Independent Learning**	**Independent Learning**	**Lecture** Theoretical Distributions *E.Çiğdem Kaspar*
16.00- 16.50	**Lecture** Lumbal and Sacral Plexus *Yüksel Aydar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel *E.Çiğdem Kaspar*	**ELECTIVE WEEK X**	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel *E.Çiğdem Kaspar*
17.00-17.50	**Lecture** Lumbal and Sacral Plexus *Yüksel Aydar*		**Group A** / **Group B Independent Learning** / **Group C Independent Learning**		**Group A Independent Learning** / **Group B** / **Group C Independent Learning**

COMMITTEE V - ENERGY AND METABOLISM
II. WEEK / 01 – 05 May 2016

	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**	**Independent Learning**	**PBL Session**	**Lecture** Nerves of the Lower Limb *Erdem Söztutar*	**Lecture** Glycogenesis *İnci Özden*
10.00- 10.50				**Lecture** Vasculature of the Lower Limb *Erdem Söztutar*	**Lecture** Glycogenesis *İnci Özden*
11.00- 11.50		**Lecture** Somitogenesis; Mesoderm Organization *Alev Cumbul*	**Lecture** Digestion and Absorption of Carbohydrates *İnci Özden*	**Laboratory / Anatomy** Cervical Muscles and Triangles *Yüksel Aydar & Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Lecture** Genome of Mithocondria *Turgay İsbir*
12.00- 12.50		**Lecture** Neurulation; Neuroectoderm Organization *Alev Cumbul*	**Lecture** Digestion and Absorption of Carbohydrates *İnci Özden*	**Group A Independent Learning** / **Group B**	**Lecture** Genome of Mithocondria *Turgay İsbir*
13.00- 13.50		**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Anatomy** Lumbal and Sacral Plexus, Nerves and Vasculature Of The Lower Limb *Yüksel Aydar & Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Behavioral Science / Lecture** Human Sexuality *Instructors*	**Lecture** Folding and Angiogenesis *Alev Cumbul*
15.00- 15.50			**Group A** / **Group B Independent Learning**	**Behavioral Science / Lecture** Violence and Abuse *Instructors*	**Lecture** Organogenesis & Fetal Periods *Alev Cumbul*
16.00- 16.50		**Common Compulsory Course** Ataturk's Principles & Hıstory of Modern Turkey *Davut Ekşi*	**Lecture** Cervical Muscles *Erdem Söztutar*	**ELECTIVE WEEK XI**	**Independent Learning**
17.00-17.50			**Lecture** Cervical Muscles and Triangles *Erdem Söztutar*		

COMMITTEE V - ENERGY AND METABOLISM

III. WEEK / 08 – 12 May 2016

	Monday 08-May-2017	Tuesday 09-May-2017	Wednesday 10-May-2017	Thursday 11-May-2017	Friday 12-May-2017
09.00- 09.50	**Independent Learning**	**Lecture** Theoretical Distributions *E.Çiğdem Kaspar*	**Lecture** Extraembryoner Structures: Placenta, Chorion, Amnion *Alev Cumbul*	**Laboratory / Anatomy** Muscles of the Head *Yüksel Aydar & Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Laboratory / Anatomy** Muscles of the Head *Yüksel Aydar & Erdem Söztutar* **Group A Independet Learning** / **Group B**
10.00- 10.50	**Laboratory / Histology** Developing Human	**Lecture** Theoretical Distributions *E.Çiğdem Kaspar*	**Lecture** Glycogenolysis *İnci Özden*	**Lecture** Regulation of Glycogenesis and Glycogenolysis *İnci Özden*	**Lecture** Diognostic Testing *E.Çiğdem Kaspar*
11.00- 11.50	**Group A** / **Group B Independent Learning**	**Lecture** Biology of Enery and Energy Balance *Turgay İsbir*	**Lecture** Glycogenolysis *İnci Özden*	**Lecture** Regulation of Glycogenesis and Glycogenolysis *İnci Özden*	**Lecture** Diognostic Testing *E.Çiğdem Kaspar*
12.00- 12.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Independent Learning**	**Independent Learning**	**Laboratory / Anatomy** Cervical Plexus, Nerves, and Vasculature of the Neck *Yüksel Aydar & Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Behavioral Science / Lecture** The Physician-Patient Relationship *Instructors*	**Lecture** Twins and Partrution *Ünal Uslu*
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Group A** / **Group B Independent Learning**	**Behavioral Science / Lecture** The Physician-Patient Relationship *Instructors*	**Lecture** İnfertility and Contraception *Ünal Uslu*
15.00- 15.50			**Lecture** Muscles of the Head *Yüksel Aydar & Erdem Söztutar*	**Lecture** Biology of Enery and Energy Balance *Turgay İsbir*	**Independent Learning**
16.00- 16.50	**Lecture** Cervical Plexus *Yüksel Aydar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Lecture** Muscles of the Head *Yüksel Aydar & Erdem Söztutar*	**ELECTIVE WEEK XII**	
17.00-17.50	**Lecture** Nerves and Vasculature of The Neck *Yüksel Aydar*		**Independent Learning**		

COMMITTEE V - ENERGY AND METABOLISM
IV. WEEK / 15 – 19 May 2017

	Monday 15-May-2017	Tuesday 16-May-2017	Wednesday 17-May-2017	Thursday 18-May-2017	Friday 19-May-2017
09.00- 09.50	**Independent Learning**	**Lecture** Glycolysis *İnci Özden*	**Lecture** Muscles of the Thoracic Wall *Erdem Söztutar*	**Independent Learning**	**May 19** **Commemoration of Ataturk, Youth and Sports Day**
10.00- 10.50	**Laboratory / Histology** Developing Human	**Lecture** Glycolysis *İnci Özden*	**Lecture** Pentose Phosphate Pathway *İnci Özden*	**Lecture** Gluconeogenesis *İnci Özden*	
11.00- 11.50	**Group A** **Independent Learning** / **Group B**	**Laboratory / Anatomy** Nerves and Vasculature of The Head *Yüksel Aydar & Erdem Söztutar* **Group A** **Independent Learning** / **Group B**	**Lecture** Pentose Phosphate Pathway *İnci Özden*	**Lecture** Gluconeogenesis *İnci Özden*	
12.00- 12.50	**Lunch Break**	**Group A** / **Group B** **Independent Learning**	**Lunch Break**	**Lunch Break**	
13.00- 13.50	**Lecture** Asissted Reproductive Technology; Methods *Ünal Uslu*	**Lunch Break**	**Behavioral Science / Lecture** Legal and Ethical Issues in Medicine *Instructors*	**Lecture** Biology of Life Span *Turgay İsbir*	
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Behavioral Science / Lecture** Legal and Ethical Issues in Medicine *Instructors*	**Lecture** Biology of Life Span *Turgay İsbir*	
15.00- 15.50			**Lecture** The Description of Epidemiology *E.Çiğdem Kaspar*	**Independent Learning**	
16.00- 16.50	**Lecture** Nerves of the Head *Yüksel Aydar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Davut Ekşi*	**Lecture** Sampling in Epidemiology *E.Çiğdem Kaspar*	**ELECTIVE WEEK XIII**	
17.00-17.50	**Lecture** Vasculature of the Head *Yüksel Aydar*		**Independent Learning**		

COMMITTEE V - ENERGY AND METABOLISM
V. WEEK / 22 – 26 May 2017

	Monday 22-May-2017	Tuesday 23-May-2017	Wednesday 24-May-2017	Thursday 25-May-2017	Friday 26-May-2017
09.00- 09.50	**Independent Learning**	**Lecture** Regulation of Glycolysis and Gluconeogenesis *İnci Özden*	**Independent Learning**	**Lecture** Congenital Anomalies and Teratology *Alev Cumbul*	**Independent Learning**
10.00- 10.50		**Lecture** Regulation of Glycolysis and Gluconeogenesis *İnci Özden*	**Lecture** Secondary Hemostasis, Procoagulation, Anticoagulation *İnci Özden*	**Lecture** Fibrinolysis, Fibrinolytic and Antifibrinolytic Agents *İnci Özden*	**Laboratory / Biochemistry** Glucose Determination in Blood, Occult Blood in Feces, Bleeding Time *Jale Çoban & Müge Kopuz*
11.00- 11.50		**Laboratory / Anatomy** Muscles of the Thoracic and Abdominal Wall *Yüksel Aydar & Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Lecture** Secondary Hemostasis, Procoagulation, Anticoagulation *İnci Özden*	**Lecture** Fibrinolysis, Fibrinolytic and Antifibrinolytic Agents *İnci Özden*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
12.00- 12.50	**Lunch Break**	**Group A Independent Learning** / **Group B**	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Lecture** Muscles of the Abdominal Wall *Yüksel Aydar*	**Lunch Break**	**Lecture** Congenital Anomalies and Teratology *Alev Cumbul*	**Behavioral Science / Lecture** Introduction to Psychopathology *Instructors*	**Laboratory / Biochemistry** Glucose Determination in Blood, Occult Blood In Feces, Bleeding Time *Jale Çoban & Müge Kopuz*
14.00- 14.50	**Lecture** Muscles of the Abdominal Wall and Inguinal Canal *Yüksel Aydar*	**Lecture** Blood Coagulation, Primary Hemostasis *İnci Özden*	**Lecture** Epidemiological Research Methods and Calculation of The Risk *E.Çiğdem Kaspar*	**Behavioral Science / Lecture** Introduction to Psychopathology *Instructors*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
15.00- 15.50	**Lecture** Epidemiological Research Methods *E.Çiğdem Kaspar*	**Lecture** Blood Coagulation, Primary Hemostasis *İnci Özden*	**Lecture** Nerves and Vasculature of The Thoracic Wall *Yüksel Aydar & Erdem Söztutar*	**Laboratory / Histology Make Up Sesion** **Group A** / **Group B Independent Learning**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Laboratory / Biostatistics** Basic Statistical Calculations in Excel *E.Çiğdem Kaspar*	**Independent Learning**	**Laboratory / Anatomy** Nerves and Vasculature of The Thoracic Wall *Yüksel Aydar & Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Group A Independent Learning** / **Group B**	
17.00-17.50	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**		**Group A** / **Group B Independent Learning**	**ELECTIVE WEEK XIV**	**Independent Learning**

COMMITTEE V - ENERGY AND METABOLISM
VI. WEEK / 29 May– 02 June 2017

	Monday 29-May-2017	Tuesday 30-May-2017	Wednesday 31-May-2017	Thursday 01-June-2017	Friday 02-June-2017
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Discussions (Small Groups)** Overview *Erdem Söztutar*	**Assessment Session Anatomy** (Practical Exam)	**ICP Make-up Exam**		**Assessment Session Committee V** (MCQ-EMQ)
11.00- 11.50	**Discussions (Small Groups)** Overview *Erdem Söztutar*				
12.00- 12.50	**Independent Learning**				
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Independent Learning**	**Assessment Session Biostatistics** (Writing Exam-MEQ)	**Independent Learning**	**Independent Learning**	**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Committee V Program *Head of Committee*
15.00- 15.50					
16.00- 16.50		**Independent Learning**			**Independent Learning**
17.00-17.50					

STUDENT COUNSELING

Student counseling is a structured development process established between the student and the consultant that aims to maximize student success by focusing the student to her/his target. Although the major component of this relationship is the student, the faculties also take part by bringing the requirements of this interaction to their systems. The targeted outcomes of the consultant-student interaction are success in the exams, success in the program, and preparation for the professional life.

The aim of counseling is to help students to solve their problems, to give professional guidance, to provide coaching, to contribute to adopting the habit of lifelong learning, to provide information about the University and Faculty, to follow their success and failure and to help them select courses.

The consultants selected among Basic Medical Sciences instructors for the first three years transfer the students to Clinical Sciences instructors for the following three years.

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

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

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

The expectations from the student are as follows:

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

Student counsellors will be appointed after finalization of the class list and will be announced to the students.

After the announcement of the counsellors on the information board, each student is expected to contact his/her counsellor until the end of the current committee.

LIST OF STUDENT COUNSELING- PHASE I

	STUDENT NO	NAME	SURNAME	COUNSELOR
1	20160800016	BEYZA NUR	AKIN	PROF. DR. İNCİ ÖZDEN
2	20160800024	CEREN	AKINCI	PROF. DR. İNCİ ÖZDEN
3	20160800002	YARA	AKKAD	PROF. DR. İNCİ ÖZDEN
4	20160800012	ZAFER	AKMAN	PROF. DR. İNCİ ÖZDEN
5	20160800095	MAHMOUD	ALHOSARY	PROF. DR. İNCİ ÖZDEN
6	20150800069	FATİH BURAK	ALTINTAŞ	PROF. DR. ECE GENÇ
7	20160800042	DOĞAÇ	ALTIPARMAK	PROF. DR. ECE GENÇ
8	20160800057	EFE	ARAS	DOÇ. DR. MEHTAP KAÇAR
9	20150800024	EBRU	ARIDURU	PROF. DR. ECE GENÇ
10	20160800015	MERVE	ARSLANHAN	PROF. DR. TURGAY İSBİR
11	20160800007	ÖZCAN	ATEŞ	PROF. DR. TURGAY İSBİR
12	20160800076	SELİN	AYDIN	PROF. DR. TURGAY İSBİR
13	20160800020	FEYHAN	BALCI	PROF. DR. TURGAY İSBİR
14	20160800098	BALIM DİLEĞE	BALCI	DOÇ. DR. MEHTAP KAÇAR
15	20160800091	TIMUCIN SELIM	BASEL	PROF. DR. RECEP EROL SEZER
16	20160800026	ÇİĞDEM	BAYRAM	PROF. DR. RECEP EROL SEZER
17	20160800035	İPEK NAZ	BELEVİ	YRD. DOÇ. DR. ARZU AKALIN
18	20160800021	BİLLUR EDA	BİLGİ	DOÇ. DR. ÜNAL USLU
19	20160800079	AYŞE ZEYNEP	CEVHER	DOÇ. DR. ÜNAL USLU
20	20150800019	SERKAN	CİVELEK	DOÇ. DR. ÜNAL USLU
21	20160800005	SABRİ ARTUN	ÇABUK	DOÇ. DR. ÜNAL USLU
22	20160800018	ÇAĞDAŞ	ÇAĞIN	PROF. DR. RECEP EROL SEZER
23	20160800087	GÜLDEN	ÇAĞLAR	DOÇ. DR. MEHTAP KAÇAR
24	20160800080	CANSU	ÇAKIR	DOÇ. DR. MEHTAP KAÇAR
25	20150800093	ÇAĞATAY	ÇALIK	PROF. DR. ECE GENÇ
26	20160800088	ECE	ÇALIŞAN	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
27	20150800057	SERA	ÇELİK	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
28	20150800008	ALİ FETİH	ÇETİN	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
29	20160800030	ADARA	ÇÖLLÜ	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
30	20150800053	HAKAN	DELİBAŞI	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
31	20150800004	BEYZA	DOĞRU	DOÇ. DR. ÖZLEM TANRIÖVER
32	20150800081	ATAKAN	DÖNMEZ	DOÇ. DR. ÖZLEM TANRIÖVER
33	20160800033	EMİN EGECAN	DURMUŞ	DOÇ. DR. ÖZLEM TANRIÖVER
34	20160800019	BURAK TUNAHAN	EKİNCİKLİ	DOÇ. DR. ÖZLEM TANRIÖVER
35	20160800029	BELİZ ÖYKÜ	ERDEM	DOÇ. DR. ÖZLEM TANRIÖVER
36	20160800045	OZAN	EREK	DOÇ. DR. ÇAĞATAY ACUNER
37	20150800045	CANSEL	ERTÜRK	DOÇ. DR. ÇAĞATAY ACUNER
38	20160800107	ALİ ISMAEL	GAIBOUNA	DOÇ. DR. ÇAĞATAY ACUNER
39	20150800085	KARDELEN	GELEŞ	DOÇ. DR. ÇAĞATAY ACUNER
40	20150800072	MAHBUP	GÖKGÖZ	DOÇ. DR. ÇAĞATAY ACUNER
41	20160800023	MİCAN	GÖVERCİN	DOÇ. DR. SONER DOĞAN
42	20150800005	GİZEM	GÜNER	DOÇ. DR. SONER DOĞAN
43	20150800036	ŞAHESTE ÖZEN	GÜNEŞ	DOÇ. DR. SONER DOĞAN
44	20140800059	AYDAN	GÜR	DOÇ. DR. SONER DOĞAN
45	20160800013	YAĞMUR	GÜVEN	DOÇ. DR. SONER DOĞAN
46	20160800111	AFAF	HADDAD	DOÇ. DR. SONER DOĞAN
47	20160800090	REFAL HYEDER	HAMANDI	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
48	20160800011	İREM	HASDEMİR	YRD. DOÇ. DR. ARZU AKALIN
49	20160800027	SİNAN	HİÇDÖNMEZ	PROF. DR. RECEP EROL SEZER
50	20160800069	CEYHUN	IRMAK	YRD. DOÇ. DR. AYLİN YABA UÇAR
51	20150800010	ALKIM MELİKE	KARABÜK	YRD. DOÇ. DR. ÇİĞDEM KASPAR
52	20160800006	BERAN	KARAKOCA	YRD. DOÇ. DR. ÇİĞDEM KASPAR
53	20150800035	ŞEYMA	KIRGIL	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN

54	20150800021	İREM	KIYIPINAR	YRD. DOÇ. DR. ALEV CUMBUL
55	2016080110	MERAL AYBÜKE	KOÇ	YRD. DOÇ. DR. ALEV CUMBUL
56	20160800017	DOĞUKAN	KOÇAK	YRD. DOÇ. DR. ALEV CUMBUL
57	20160800010	ECEM SENA	KOÇASLAN	YRD. DOÇ. DR. ALEV CUMBUL
58	20160800034	ALİ EGEMEN	KÖROĞLU	YRD. DOÇ. DR. ALEV CUMBUL
59	20150800064	BÜŞRA	KÜÇÜKYILDIZ	YRD. DOÇ. DR. DR. DENİZ KIRAÇ
60	20160800059	ENGİN BATUHAN	MENKÜER	YRD. DOÇ. DR. DR. DENİZ KIRAÇ
61	20150800009	BÜŞRA	MOĞUL	YRD. DOÇ. DR. DR. DENİZ KIRAÇ
62	20160800040	AZMİ CAN	OFLUOĞLU	YRD. DOÇ. DR. DR. DENİZ KIRAÇ
63	20150800007	UMUT	OĞUZ	YRD. DOÇ. DR. AYLİN YABA UÇAR
64	20150800037	NECLA SİMAY	OKAY	YRD. DOÇ. DR. AYLİN YABA UÇAR
65	20150800068	EFE	ONAÇ	YRD. DOÇ. DR. AYLİN YABA UÇAR
66	20150800050	BUĞRA	ONDUR	YRD. DOÇ. DR. AYLİN YABA UÇAR
67	20160800032	KAAN UTKU	ÖNEN	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
68	20160800102	TALHA	ÖNER	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
69	20150800017	ATAKAN	ÖZBEK	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
70	20160800044	ZEYNEP	ÖZEL	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
71	20150800062	NADİRE ÖZGE	ÖZEN	YRD. DOÇ. DR. SERDAR ÖZDEMİR
72	20150800001	BURAK BERKSU	ÖZKARA	YRD. DOÇ. DR. SERDAR ÖZDEMİR
73	20150800056	HARUN	ÖZKAYA	YRD. DOÇ. DR. SERDAR ÖZDEMİR
74	20160800101	NEŞE	ÖZTÜRK	YRD. DOÇ. DR. SERDAR ÖZDEMİR
75	20150800060	ÇAĞATAY	PULLU	YRD. DOÇ. DR. SERDAR ÖZDEMİR
76	20160800096	NOUR	RMEID	DR. ERDEM SÖZTUTAR
77	20160800031	BEGÜM	SARGUT	DR. ERDEM SÖZTUTAR
78	20160800100	ENES	SELKİ	DR. ERDEM SÖZTUTAR
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