

**YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE I
ACADEMIC PROGRAM BOOK
2017 - 2018**

Student's;

Name :

Nr :

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE I

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YEDİTEPE UNIVERSITY FACULTY OF MEDICINE
PROGRAM OUTCOMES OF MEDICAL EDUCATION * , **

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

PODG.1. Basic Professional Competencies

POD.1.1. Clinical Competencies

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

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

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

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

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

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

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

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

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

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

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

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

POD.1.2. Competencies related to Communication

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

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

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

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

POD.1.3. Competencies Related to Leadership and Management

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

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

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

POD.1.4. Competencies related to Health Advocacy

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

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

POD.1.5. Competencies related to Research

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

POD.1.6. Competencies related to Health Education and Counseling

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

PODG.2. Professional Values and Perspectives

POD.2.1. Competencies related to Law and Legal Regulations

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

POD.2.2. Competencies Related to Ethical Aspects of Medicine

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

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

POD.2.3. Competencies Related to Social and Behavioral Sciences

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

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

POD.2.4. Competencies Related to Social Awareness and Participation

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

POD.2.5. Competencies Related to Professional Attitudes and Behaviors

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

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

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

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

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

PODG.3. Personal Development and Values

POD.3.1. Competencies Related to Lifelong Learning

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

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

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

POD.3.2. Competencies Related to Career Management

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

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

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

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

PO.3.3.1. *implements* the rules of healthy living.

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

PO.3.3.3. *uses* self-motivation factors.

COORDINATION COMMITTEE

(TEACHING YEAR 2017–2018)

Elif iğdem ALTUNOK, Ph.D, Assist. Prof. (Coordinator)
Soner DOĐAN Ph.D, Assoc. Prof. (Co-coordinator)
Bilge GÜVENÇ TUNA Ph.D, Assist. Prof. (Co-coordinator)
Aylin YABA UÇAR, Ph.D, Assist. Prof. (Co-coordinator)
Oya ALAGÖZ MD, Assist. Prof. (Co-coordinator)

ICP-I COORDINATION COMMITTEE

Özlem TANRIÖVER MD, Assoc. Prof. (Coordinator)
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PBL COORDINATION COMMITTEE

Sabri KAMAHLI, Prof. Dr. (Coordinator)
İbrahim ağatay ACUNER, Assoc. Prof.Dr. (Coordinator)
Serdar ÖZDEMİR, Assist. Prof. Dr. (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, Immunology, 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, immunology, 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, immunology, 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.
- 15.0. define basic elements of immune response

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.
- 7.0. present and write a scientific article

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, immunology, 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.
- 5.0. explain the structure and function of the cell at cellular level.
- 6.0. list the developmental processes from zygote to organogenesis.
- 7.0. define four essential tissues forming the body, cells and intercellular materials.
- 8.0. define the link between the structure and function of tissues.
- 9.0. define muscular, vascular and nervous system.
- 10.0. list basic properties and classes of microorganisms.
- 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.
- 15.0. define basic elements of immune response

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.
- 3.0. present and write a scientific article

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° 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.

SCIENTIFIC PROJECTS - I

The purpose of Scientific Projects I 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 Small Group Study hours that will run in parallel with ICP classes. 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 a scenario of scientific data and are expected to write an article on their choice of scenarios, individually. Drafts of the articles will be discussed in Small Group Study hours. Scientific Projects course has 4% contribution to Term Score (TS).

Please note that it is mandatory to attend to Small Group Study hours in the assigned group hours. A list of groups will be published during the first week of the term.

SCIENTIFIC PROJECTS ARTICLE READING ASSESSMENT TABLE

CRITERIA	Unsatisfactory	Below Expectations	Meets Expectations	Above Expectations	Clearly Outstanding	Not Addressed / Observed
Gathering all the information together and using creativity in the report	1	2	3	4	5	0
Report's compliance to template	1	2	3	4	5	0
Presentation slides	1	2	3	4	5	0
Timely Presentation	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
Opinions/Suggestions	1	2	3	4	5	0
TOTAL POINTS	40 x 2,5=100 pts (if all criteria has 5 points)					

SCIENTIFIC PROJECTS ARTICLE WRITING 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)					

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 <ul style="list-style-type: none"> • emphasize cultural patterns of health. • investigate how human behavior that lives in a society is affected by own cultural health patterns. • discuss case studies about how cultural phenomenon affects human and public health. • understand importance of health that is constructed within culture structure by human society. • examine universal definition of health “state of complete physical, mental and social well-being” culturally. • realize interaction between items of cultural system and health system basically; get into the level of knowledge, skills and attitudes 		
Assessment		NUMBER	PERCENTAGE
	Assignments	1	100
	Total	1	100

Code	Subject		
MED 612	Creative Drama		
Goals	The aim of this course is the development of independence, creativity, self-control and problem-solving potential and the development of communication skills of medical students by using drama and creativity through improvisation of exercises		
Content	Discovering, learning and teaching approaches that are student-centered in a curiosity focused setting with various cognitive and active learning styles.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • show drama skills in vocational areas benefiting from access to creativity, collaboration and empathy which are the ways of learning through play and improvisation. 		
Assessment		NUMBER	PERCENTAGE
	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	<p>At the end of this course, the student should be able to</p> <ul style="list-style-type: none"> • gain an understanding of the history of medicine as one of social and cultural transformation in the conception of professionalism, disease and what constitutes illness and health through the centuries. • develop the skills to write an essay using primary source documents in the context of the history of medicine. • gain view of different reflections of medicine in literature and visual arts. • develop a point of view to use literature and visual arts as an imagination instrument of compassion, to tolerate ambiguity, to dwell in paradox, to consider multiple points of view. • develop better observational and interpretive skills, by using the power of visual arts to elicit an emotional response in the observer. • gain understanding about the main values and various dimensions of professionalism. • gain insight about his/her own values and develop humanistic values. • develop a deeper understanding of human being in various contexts. • gain understanding about the various factors which influence health in individual and community level. • gain understanding to use films as a comprehensive guide in medical practice. • reflect through films to improve their cognitive and emotional awareness. 		
Assessment		NUMBER	PERCENTAGE
	Assignments	1	50
	Final Examination	1	50
	Total		100

Code	Subject		
MED 614	Personal Trademark Development		
Goals	The aim of this course is to equip the students with skills in creating personal image for successful business life and with appropriate behavior in social platforms.		
Content	Business Etiquette creation techniques and personal image methodologies with case studies.		
Course Learning Outcomes	<p>At the end of this course, the student should be able to</p> <ul style="list-style-type: none"> • create personal brand for successful business life. • use behavioral codes for business etiquette. 		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
	Attendance (Showing interest to classes, performance during discussion)		5

	times, performance during pair works, attending classes etc.)		
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	3	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		100

Code	Subject		
MED 615	Innovation Management		
Goals	The aim of this course is to convey to the students knowledge on innovative approaches for visionary life, describe the philosophy of futurism.		
Content	Strategies for futurism and applied case studies for personal innovation.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • use futuristic strategies to create innovative approaches. • use innovative and creative thinking techniques in professional life. 		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
	Attendance (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	5	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total	8	100

Code	Subject		
MED 616	Medical Management and New Services Design Skills		
Goals	The aim of this course is to develop leadership skills to manage a team and organizational skills in the case of emergency and lack of crew. Moreover, empathy skills will be developed to create better relationship with the patients, coworkers and customers.		
Content	Leadership Styles, Skills needed in Med, Strategies for New Generation Leadership, Empathy Techniques, Problem Solving with Empathy, and Conciliation with Empathy.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • develop leadership skills to manage teams. • use empathy techniques for conciliation with their patients and co-workers. 		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
	Attendance (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	4	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		100

Code	Subject		
MED 617	Personal Brand Management Skills		
Goals	This course aims 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 <ul style="list-style-type: none"> • apply stress and time management skills in their personal development and career. 		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25

	Attendance (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	4	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		100

Code	Subject		
MED 619	Entrepreneurship and Storytelling Techniques for Business Purposes		
Goals	This course aims to equip students with storytelling techniques to make smart decisions, communicate better, think creatively and use this modern technique to manage their professional relations.		
Content	Strategies for storytelling techniques and applications.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> use storytelling techniques in workplace to make decisions, communicate better and think creatively. 		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
	Attendance (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	5	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		100

Code	Subject		
MED 620	Art, Culture and Life Styles		
Goals	Healthcare members will have high level social status for their business life; and will join several international conferences. This course aims to develop their social and intellectual skills to make them global citizens with art, culture, fashion and life style knowledge.		
Content	Life Style Coaching for participants, Cultural Festivals Through Europe, Art Exhibitions and Movements, Sportive Life Coaching.		

Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • develop intellectual wealth and cultural knowledge. • change their life styles for better perspective. • increase quality of life. • establish work-life balance. 		
Assessment		NUMBER	PERCENTAGE
	Midterm 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 <ul style="list-style-type: none"> • comprehend various types of epidemiological research. • explain basic epidemiological terminology. 		
Assessment		NUMBER	PERCENTAGE
	Group work performance		50
	Presentations		50
	Total		100

SPECIFIC SESSIONS / PANELS

Introductory Session

Aim of the session:

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

Objectives of the Session:

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

Rules of the Session:

1. The session will be held in two types, conducted by Phase Coordinator and Committee/Clerkship 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 Medical Faculty Undergraduate Program in Medicine (YUFM/UG-ME), Work Descriptions and Introduction of Committees/Clerkships/Members,
- Directives on YUFM/UG-ME,
- YMF-GPM 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 beginning of the spring semester.
2. Students are required to attend the session.
3. The phase coordinator will monitor the session. If necessary the dean, vice deans and heads of the educational boards will attend to the session.
4. All faculty members will be invited to the session.

Implementation:

Before the Session

1. Phase coordinator will report the results of the improvements of the educational program.
2. The program improvements report has three parts. The first part of the report includes improvements that have been completed, and those that are currently in progress. The second part of the report includes, improvements that are planned in medium term, and the third part of the report includes, improvements that are planned in 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)
<i>Example</i>	<i>Example</i>	<i>Example</i>	<i>Example</i>
<i>Fever Cough Pallor</i>	<i>Throat infection Pneumonia Anemia</i>	<i>Throat examination Chest examination Chest X-ray Blood count</i>	<i>Causes of fever How is body temperature controlled? Anatomy of the throat Anatomy of lungs What is anemia?</i>

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

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

As you will not be provided with all information about the patient you will need more information (such as, the patient's fever, physical examination findings, laboratory data, etc.). You will thus ask the scribe to write down

these on the board under “**Required Information**” heading. This means information that you want to learn about this particular patient.

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

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

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

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

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

Other benefits of PBL that you gain are to:

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

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

PBL STUDENT ASSESSMENT FORM*

Student Name								
Phase/Committee								
PBL Scenario Name								
Tutor Name								
INTERACTION WITH GROUP/PARTICIPATION TO GROUP	Not observed	Poor	Fair	Average	Good	Excellent	Total Point of the Part	
	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	Total Point of the Part	
	0	1	2	3	4	5		
5. Determines valid learning issues								

6. Finds valid sources							
7. Makes independent research on learning issues							
8. Shows understanding of the concepts and relationships							
COMMUNICATION/SHARING KNOWLEDGE	Not observed	Poor	Fair	Average	Good	Excellent	Total Point of the Part
	0	1	2	3	4	5	
9. Selects data valid for discussion and presentation							
10. Expresses ideas and knowledge clearly and in an understandable way							
11. Draws figures, diagrams clearly and in an understandable way							
12. Has always some additional information or data to present whenever needed							
PROBLEM SOLVING AND CRITICAL THINKING	Not observed	Poor	Fair	Average	Good	Excellent	Total Point of the Part
	0	1	2	3	4	5	
13. Generates hypotheses independently							
14. Reviews hypotheses critically							
15. Integrates basic science and clinical concepts							
16. Describes the difference between normal and pathological conditions							
PROFESSIONAL ATTITUDE	Not observed	Poor	Fair	Average	Good	Excellent	Total Point of the Part
	0	1	2	3	4	5	
17. Is sensitive to psychosocial factors affecting patients							
18. Treats all group members as colleagues							
19. Accepts feedback properly							
20. Provides proper feedback to group members							
Total Score of the Student →							

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

If you have any other interpretation, or thought about the student's performance in PBL sessions that you want to say PBL Coordinators, please write here. →	
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Signature of the tutor	
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*Assessment form should be filled in at the end of scenario (i.e. following the completion of two consecutive sessions).

INDEPENDENT LEARNING

Description:

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

Aim:

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

Objectives:

With this instructional strategy, students will develop;

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

Rules:

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

What a student should do for learning independently?

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

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

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

Reference:

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

For further reading useful resources to recommend to students:

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

The Assessment Procedure of the Phase I covers exams and scores and their abbreviations 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, ECSs
		SbMCQ: Scenario-based MCQs	CE, MTE, FE, ICE	CS, ICPS, FES, ICES
		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, ECSs
	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. The number of FSAQs is half of the relevant exam. MUE content will be developed by the coordination committees.

Scores Information (MED 104, MED 102, MED 103, HUM 103, TKL 201, TKL 202, HTR 301, HTR 302, MED 190, MED 191, MED 192, MED 193)	
CS	The committee score is based on various question types/numbers and/or assessment tools (MCQ, SbMCQ or Checklists). Please see the committee's assessment matrix table/page for the specifications. Contribution of student's performance during PBL sessions to CSs of Committee II, III 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.
ECSSs	= Score information is shown pages of Elective Courses in the APB.
SPS	= Score information is shown in below Scientific Projects Assessment Table.
FES	= Final Exam Score
ICES	= Incomplete Exam Score
TS <i>for students, <u>who are exempted from FE</u></i>	= 96% of CMS + 4% of SPS
TS <i>for students, <u>who are not exempted from FE</u></i>	= 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	
<i>The student is <u>exempted from FE</u>, if the CMS is ≥ 75 and all CSs are ≥ 50</i>	
<i>The FE and ICE <u>barrier point is not applied</u> to the students whose all CSs are ≥ 50</i>	
Introduction to Clinical Practice I (MED 102)	
Pass; ICPS ≥ 50	
Fail; ICPS < 50	
Anatomical Drawing (MED 103)	
Pass; ADS ≥ 50	
Fail; ADS < 50	
Common Compulsory 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.

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

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

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

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

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

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

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

EXAM RULES

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

Those students found to have committed academic misconduct will face administrative sanctions imposed by the administration of Yeditepe University Faculty of Medicine according to the disciplinary rules and regulations of the Turkish Higher Education Council (YÖK) for students (published in the Official Journal on August 18th, 2012). The standard administrative sanctions include, the creation of a disciplinary record which will be checked by graduate and professional life, result in grade "F" on the assignment, exams or tests or in the class. Students may face suspension and dismissal from the Yeditepe University **for up to one school year**. In addition, student may lose any academic and 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)	Elective Course (SPRING)	MED 104 (B 311)
15:00-15:50	TKL201&202 (B 311)	MED 103 (C 937)	MED 104 (B 311)	MED 104 (B 311)	Elective Course (SPRING)	MED 104 (B 311)
16:00-16:50	HTR 301 (B311) (FALL)	Humanities HUM 103 (FALL)	MED 104 (B 311)	Elective Course (SPRING)		MED 104 (B 311)
		HTR 302 (SPRING) (B311)				
17:00-17:50	HTR 301 (B311) (FALL)	HUM 103 (B311) (FALL)	MED 104 (B 311)	Elective Course (SPRING)		MED 104 (B 311)
		HTR 302 (SPRING) (B311)				

COURSE CODES

MED 104

MED 102

MED 103

TKL 201 & 202

HTR 301 & 302

HUM 103

MED 611-621

PBL

COURSES and LOCATIONS

Basic Medical Sciences (B 311) or Laboratories*

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

Anatomical Drawing (C 937)

Turkish Language & Literature (B 311)

Atatürk's Principles & History of Modern Turkey (B 311)

Humanities (İnan Kırac Conference Hall)

Elective Courses (see www.med.yeditepe.edu.tr)

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.

COMMITTEE V**ENERGY and METABOLISM (6 Weeks)**

Beginning of Committee	April 16, 2018	Monday
End of Committee	May 25, 2018	Friday
Committee Biostatistics Exam	May 21, 2018	Monday
Committee Anatomy Practical Exam	May 22, 2018	Tuesday
Committee Histology& Embryology Practical Exam	May 22, 2018	Tuesday
Committee Theoretical Exam	May 25, 2018	Friday

National Holiday	April 23, 2018	Monday
Labor's Day	May 1, 2018	Tuesday
National Holiday	May 19, 2018	Saturday

Basic Medical Sciences I

Make-up Exam	June 12-13, 2018	Monday-Tuesday
Final Exam	June 19, 2018	Tuesday
Incomplete Exam	July 19, 2018	Thursday

ICP- I:

Midterm Exam	February 6, 2018	Tuesday
Make-up Exam	May 31, 2018	Thursday
Final Exam	June 04-05, 2018	Monday-Tuesday
Incomplete Exam	July 20, 2018	Friday

ELECTIVE Lectures-Spring 2017-18

Midterm Exam	April 5, 2018	Thursday
Final Exam	May 28, 2018	Monday
Incomplete Exam	June 20, 2018	Wednesday

Turkish Language & Literature

Fall Final Exam	TKL December 23, 2017	Saturday (10:00-12:00)
Spring Final Exam	May 20, 2018	Sunday (10:00-12:00)

Atatürk's Principles & History of Modern Turkey

Fall Final Exam	HTR January 02, 2018	Tuesday (10:00-18:00)
Spring Final Exam	May 12, 2018	Saturday (10:00-18:00)

Humanities

Fall Final Exam	HUM December 23,2017	Saturday (14:00-16:00)
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1. Coordination Committee Meeting	October 18, 2017	Wednesday 14:00
2. Coordination Committee Meeting	January 10, 2018	Wednesday 14:00 (with student participation)
3. Coordination Committee Meeting	May 9, 2018	Wednesday 14:00 (with student participation)
4. Coordination Committee Meeting	July 4, 2018	Wednesday 14:00

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	Biophysics: A Physiological Approach	Patrick F. Dillon	Cambridge University Press
		Physics in Biology and Medicine (4th edition)	Paul Davidovits	Elsevier
		Introductory Biophysics: Perspectives on the Living State	J.R. Claycomb, J.P. Tran	Jones & Bartlett Publishers
4	BIOSTATISTICS	Primer of Biostatistics	Stanton Glantz	Mc-Graw-Hill Companies
5	HISTOLOGY	Junqueira's Basic Histology: Text and Atlas 13 th Ed.	Anthony Mescher	Mc-Graw-Hill Companies
	EMBRYOLOGY	The Developing Human: Clinically Oriented Embryology, 10 th Ed.	Keith L. Moore & T. V. N. Persaud	Saunders
6	MEDICAL BIOLOGY	Molecular Biology of the Cell	Bruce Alberts et al	Garland Science
7	MEDICAL ETHICS	Clinical Bioethics: Theory and Practice in Medical-Ethical Decision Making	James E. Drane	Sheed & Ward
	MEDICAL HISTORY	Blood and Guts: A Short History of Medicine	Roy Porter	W. W. Norton & Company
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
11	IMMUNOLOGY	Basic Immunology, Functions and Disorders of the Immune System	Abul Abbas Andrew H. Lichtman Shiv Pillai	Elsevier Health Sciences

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 11, 2017 – October 27, 2017****COMMITTEE DURATION: 7 WEEKS**

MED 104	BASIC MEDICAL SCIENCES I DISCIPLINE	THEO.	PRAC.	TOTAL
		93	8	101
	ANATOMY	9	2 Gr x 2 H	11
	BIOPHYSICS	16	0	16
	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	8	0	8
	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	152	22	174
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Coordination Committee	Head	Turgay İSBİR, Prof.
	Secretary	E. Çiğdem ALTUNOK, Assist. Prof.
	Member	Bilge GÜVENÇ TUNA, Assist. Prof.
	Member	Erdem SÖZTUTAR, Assist. Prof.

**COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
LECTURERS**

BASIC MEDICAL SCIENCES I	
DISCIPLINE	FACULTY
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	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	Rainer BRÖMER, Assoc. Prof.
MEDICAL MICROBIOLOGY	Çağatay ACUNER, MD, Assoc. Prof.
ORGANIC CHEMISTRY	Esra ÖNEN BAYRAM, PhD, Assoc.. Prof.
PHYSIOLOGY	Burcu GEMİCİ BAŞOL, Assist. Prof. Dr.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD, Assoc. Prof.

INTRODUCTION TO CLINICAL PRACTICE I (ICP- I)	Güldal İZBİRAK, 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 SELİMHOC AOĞLU, 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, international units, biomechanics, bio-optics, 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. E. Söztutar	10	4	4	18
3.0, 4.0	Dr. B.Güvenç Tuna	17	7	7	31
5.0 - 6.0	Dr. A. Cumbul	7	3	3	13
	Dr. A. Yaba Uçar				
7.0 – 11.0	Dr. T. İsbir	41	17	17	75
	Dr. S. Doğan				
12.0, 13.0	Dr. R. Brömer	11	5	5	21
14.0	Dr. Ç. Acuner	3	1	1	5
15.0,16.1,16.2	Dr. E. Önen Bayram	9	4	4	17
17.0	Dr. B. Gemicici Başol	2	1	1	4
TOTAL		100	42/200[#]	42/200[#]	184
LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS			
		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 value of LPE is equal to 100 points

CS = 90% CE (MCQ) + 10% (LPE)

[#]In FE and ICE, **42** out of 200 MCQs will be from this Committee (Each question has equal value.)

Abbreviations:

MCQ: Multiple Choice Question

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 / 11 – 15 Sep 2017

	Monday 11-Sep-2017	Tuesday 12-Sep-2017	Wednesday 13-Sep-2017	Thursday 14-Sep-2017	Friday 15-Sep-2017
09.00- 09.50	Independent Learning	Independent Learning	Lecture Introduction to Histology; Basic Terminology <i>Alev Cumbul</i>	Independent Learning	Lecture Origin of Life <i>Turgay İsbir</i>
10.00- 10.50	Introductory Session Introduction to Faculty <i>Dean</i>	Lecture / ICP I Introduction to the First Aid Programmes <i>Güldal İzbirak</i>	Lecture History and Scope of Microbiology <i>Çağatay Acuner</i>	Lecture / Scientific Project I How to Read an Article <i>Gülderen Yanıkkaya Demirel</i>	Lecture Origin of Life <i>Turgay İsbir</i>
11.00- 11.50	Introductory Session Introduction to Committee I <i>Phase I Coordinator</i>	Lecture / ICP I Basic Human Body <i>Arzu Akalın</i>	Lecture History and Scope of Microbiology <i>Çağatay Acuner</i>	Lecture / Scientific Project I How to Read an Article <i>Gülderen Yanıkkaya Demirel</i>	Lecture Acids & Bases <i>Esra Önen Bayram</i>
12.00- 12.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lecture Acids & Bases <i>Esra Önen Bayram</i>
13.00- 13.50	Independent Learning	Lecture / ICP I Scene Assessment <i>Arzu Akalın</i>	Lecture Introduction to Medical Biology <i>Turgay İsbir</i>	Lecture Microscopy (Brightfield, Fluorescent, Confocal) <i>Aylin Yaba Uçar</i>	Lunch Break
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Introduction to Biophysics; Medicine, Science or Art <i>Bilge Güvenç Tuna</i>	Lecture Electronmicroscopy <i>Aylin Yaba Uçar</i>	Lecture Cellular Organization of Life <i>Turgay İsbir</i>
15.00- 15.50			Lecture Physical Measurements and Units, Unit Standards <i>Bilge Güvenç Tuna</i>	Lecture Statics (Mass and Weight), Gravitation Law <i>Bilge Güvenç Tuna</i>	Lecture Cellular Organization of Life <i>Turgay İsbir</i>
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Lecture / ICP I Legal Aspect of First Aid <i>Medical History and Deontology</i>	Lecture Cell Membrane <i>Soner Doğan</i>	Independent Learning
17.00-17.50			Lecture / ICP I Legal Aspect of First Aid <i>Medical History and Deontology</i>	Independent Learning	

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

II. WEEK / 18 Sep – 22 Sep 2017

	Monday 18-Sep-2017	Tuesday 19-Sep-2017	Wednesday 20-Sep-2017	Thursday 21-Sep-2017	Friday 22-Sep-2017	
09.00- 09.50	Laboratory / Histology Microscopy <i>Alev Cumbul & Aylin Yaba Uçar</i>	Lecture Approaches to Medicine/ Medicine in Prehistoric Times <i>Medical History and Ethics</i>	Lecture Cellular Organization of Life <i>Turgay İsbir</i>	Independent Learning	Independent Learning	
10.00- 10.50		Group A	Group B Independent Learning			Lecture Medicine in Early Civilisations (Mesopotamia, Egypt) <i>Medical History and Ethics</i>
11.00- 11.50	Group A Independent Learning	Group B	Lecture / ICP I Basic Life Support and Heimlich Maneuver <i>Güldal İzbirak</i>	Lecture Newton's Laws of Motion <i>Bilge Güvenç Tuna</i>	Lecture Reflection and Refraction of Light <i>Bilge Güvenç Tuna</i>	Lecture Introduction to Anatomy <i>Erdem Söztutar</i>
12.00- 12.50			Lecture / ICP I Basic Life Support and Heimlich Maneuver <i>Güldal İzbirak</i>	Lecture Center of Mass, Moment <i>Bilge Güvenç Tuna</i>	Lecture History and Scope of Microbiology <i>Çağatay Acuner</i>	Lecture Terminology in Anatomy <i>Erdem Söztutar</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Independent Learning	Lecture Methods of Histology; Tissue Processing <i>Alev Cumbul</i>	Lecture Lenses; Lens-maker Equation <i>Bilge Güvenç Tuna</i>	
15.00- 15.50				Lecture Methods of Histology; Immunohistochemistry <i>Alev Cumbul</i>	Lecture Bio-optics: Vision and Eye, Refraction errors <i>Bilge Güvenç Tuna</i>	
16.00- 16.50	Lecture Common Compulsory Course Ataturk's Principles & History Of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities Conferences <i>Instructor</i>		Independent Learning	Independent Learning	
17.00-17.50						

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

III. WEEK / 25 – 29 Sept 2017

	Monday 25-Sep-2017	Tuesday 26-Sep-2017	Wednesday 27-Sep-2017	Thursday 28-Sep-2017	Friday 29-Sep-2017
09.00- 09.50	Independent Learning	Lecture Greek Medicine: From Mythology to Natural Philosophy <i>Medical History and Ethics</i>	Independent Learning	Lecture Cell Adhesion <i>Turgay İsbir</i>	Lecture Galen <i>Medical History and Ethics</i>
10.00- 10.50		Lecture Hippocrates to Celsus <i>Medical History and Ethics</i>	Lecture Other Histologic Methods <i>Alev Cumbul</i>	Lecture Cell Adhesion <i>Turgay İsbir</i>	Lecture Indian and Chinese Medicine <i>Medical History and Ethics</i>
11.00- 11.50		Lecture / ICP I Shock and Bleeding Control <i>Hülya Akan</i>	Lecture Cellular Organization of Life <i>Turgay İsbir</i>	Lecture Cell Signalling Events <i>Turgay İsbir</i>	Lecture Optical Properties of Microscopes <i>Bilge Güvenç Tuna</i>
12.00- 12.50		Lecture / ICP I Burns, Freezing, Frostbite <i>Hülya Akan</i>	Lecture Cytoskeleton <i>Turgay İsbir</i>	Lecture Optical Aberrations <i>Bilge Güvenç Tuna</i>	Lecture Optical Properties of Microscopes <i>Bilge Güvenç Tuna</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Cytoskeleton <i>Turgay İsbir</i>	Lecture Cell Signalling Events <i>Turgay İsbir</i>	Lecture Cell Signalling Events <i>Turgay İsbir</i>
15.00- 15.50			Lecture Cytoskeleton <i>Turgay İsbir</i>	Lecture Cell Signalling Events <i>Turgay İsbir</i>	Laboratory / Med. Biology Introduction to Medical Biology <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History Of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Lecture Cytoskeleton <i>Turgay İsbir</i>	Lecture Cellular Organization of Life Biological Energy Systems Enzymes and Kinetics <i>Soner Doğan</i>	Group A Group B Group C
17.00-17.50			Lecture Cell Adhesion <i>Turgay İsbir</i>	Independent Learning	Independent Learning

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

IV. WEEK / 02 – 06 Oct 2017

	Monday 02-Oct-2017	Tuesday 03-Oct-2017	Wednesday 04-Oct-2017	Thursday 05-Oct-2017	Friday 06-Oct-2017	
09.00- 09.50	Independent Learning	Lecture / ICP I Foreign Objects <i>Hülya Akan</i>	Lecture Cell Signalling Events <i>Turgay İsbir</i>	Independent Learning	Lecture Programmed Cell Death <i>Turgay İsbir</i>	
10.00- 10.50		Lecture / ICP I Fractures and Dislocation <i>Hülya Akan</i>	Lecture Cell Signalling Events <i>Turgay İsbir</i>		Lecture Programmed Cell Death <i>Turgay İsbir</i>	
11.00- 11.50		Lecture Alkanes & Cycloalkanes <i>Esra Önen Bayram</i>	Lecture Intercellular Cell Signalling <i>Turgay İsbir</i>		Lecture Intercellular Cell Signalling <i>Turgay İsbir</i>	Lecture Bones of the Upper Limb <i>Erdem Söztutar</i>
12.00- 12.50		Lecture Alkanes & Cycloalkanes <i>Esra Önen Bayram</i>	Independent Learning		Lecture Intercellular Cell Signalling <i>Turgay İsbir</i>	Lecture Bones of the Upper Limb <i>Erdem Söztutar</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Introduction to Osteology <i>Erdem Söztutar</i>	Lecture Programmed Cell Death <i>Turgay İsbir</i>	Laboratory / Med. Biology The Preparation of Aqueous Solutions <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>	
15.00- 15.50			Lecture Bones of the Shoulder <i>Erdem Söztutar</i>	Lecture Programmed Cell Death <i>Turgay İsbir</i>	Group A Independent Learning Group B Group C Independent Learning	
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Lecture / ICP I Injuries <i>Arzu Akalin</i>	Laboratory / Med. Biology The Preparation of Aqueous Solutions <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>	Laboratory / Med. Biology The Preparation of Aqueous Solutions <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>	
17.00-17.50			Independent Learning	Group A Group B Independent Learning Group C Independent Learning	Group A Group B Independent Learning Group C	

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

V. WEEK / 09 – 13 Oct 2017

	Monday 09-Oct-2017	Tuesday 10-Oct-2017	Wednesday 11-Oct-2017	Thursday 12-Oct-2017	Friday 13-Oct-2017
09.00- 09.50	Independent Learning	Lecture Late Antiquity: Byzantine, Arab <i>Medical History and Ethics</i>	Lecture Electric Charges, Electric Field <i>Bilge Güvenç Tuna</i>	Lecture The Time of Ibn Sina <i>Medical History and Ethics</i>	Lecture Cell Cycle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) <i>Turgay İsbir</i>
10.00- 10.50		Lecture Medicine in Abbasid Baghdad <i>Medical History and Ethics</i>	Lecture Membrane Impedance, Bioelectrical Activity <i>Bilge Güvenç Tuna</i>	Lecture Seljuk and Ottoman Medicine <i>Medical History and Ethics</i>	Lecture Cell Cycle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) <i>Turgay İsbir</i>
11.00- 11.50	Laboratory / Anatomy Bones of The Shoulder and Upper Limb <i>Erdem Söztutar</i> Group A Group B Independent Learning	Lecture / ICP I The Unconscious Causalty <i>Güldal İzbrak</i>	Lecture Alkenes <i>Esra Önen Bayram</i>	Lecture Electric Current Effects on Human Tissue <i>Bilge Güvenç Tuna</i>	Lecture Introduction to Physiology and Homeostasis <i>Burcu Gemici Başol</i>
12.00- 12.50	Group A Independent Learning Group B	Lecture / ICP I Poisoning <i>Arzu Akalın</i>	Lecture Alkenes <i>Esra Önen Bayram</i>	Lecture Electrical Security Systems <i>Bilge Güvenç Tuna</i>	Lecture Introduction to Physiology and Homeostasis <i>Burcu Gemici Başol</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Cellular Organization of Life Enzymes and Kinetics <i>Soner Doğan</i>	Lecture Bones of the Pelvis <i>Erdem Söztutar</i>	Lecture Cell Membrane <i>Soner Doğan</i>
15.00- 15.50			Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Lecture Bones of the Pelvis & Lower Limb <i>Erdem Söztutar</i>
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Independent Learning	Lecture Bones of the Pelvis & Lower Limb <i>Erdem Söztutar</i>	Independent Learning
17.00-17.50			Independent Learning		

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VI. WEEK / 16 – 20 Oct 2017

	Monday 16-Oct-2017	Tuesday 17-Oct-2017	Wednesday 18-Oct-2017	Thursday 19-Oct-2017	Friday 20-Oct-2017
09.00- 09.50	Laboratory / Histology <i>Alev Cumbul & Aylin Yaba Uçar</i> Review Session Group A and B	Independent Learning	Independent Learning	PROBLEM BASED LEARNING ORIENTATION DAY	Independent Learning
10.00- 10.50		Lecture / ICP I Insect Bite <i>Özlem Tanrıöver</i>	Lecture Cellular Homoestosis and Cell Growth <i>Turgay İsbir</i>		
11.00- 11.50	Laboratory / Anatomy Bones of the Pelvis & Lower Limb <i>Erdem Söztutar</i> Group A Independent Learning	Lecture / ICP I Patient-Causalty Transportation Techniques <i>Özlem Tanrıöver</i>	Lecture Cellular Homoestosis and Cell Growth <i>Turgay İsbir</i>		
12.00- 12.50	Group A Group B Independent Learning	Lecture / ICP I Drowning <i>Güldal İzbirak</i>	Independent Learning		
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break		
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Benzene & Aromaticity <i>Esra Önen Bayram</i>		
15.00- 15.50			Lecture Benzene & Aromaticity <i>Esra Önen Bayram</i>		
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Independent Learning		
17.00-17.50			Independent Learning		

**COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VII. WEEK / 23 - 27 October 2017**

	Monday 23-Oct-2017	Tuesday 24-Oct-2017	Wednesday 25-Oct-2017	Thursday 26-Oct-2017	Friday 27-Oct-2017
09.00- 09.50	Assessment Session Medical Biology (Practical Exam)	Assessment Session Histology (Practical Exam)	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50					Assessment Session Anatomy (Practical Exam)
11.00- 11.50	Independent Learning				
12.00- 12.50		Lunch Break			Lunch Break
13.00- 13.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Independent Learning	Independent Learning	Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee I Program <i>Head of Committee</i>
14.00- 14.50					
15.00- 15.50	Independent Learning				
16.00- 16.50		Independent Learning			Independent Learning
17.00-17.50					

COMMITTEE II - CELL
DISTRIBUTION of LECTURE HOURS
October 30, 2017 - December 22, 2017
COMMITTEE DURATION: 8 WEEKS

MED 104	BASIC MEDICAL SCIENCES I DISCIPLINE	THEO.	PRAC.	PBL	TOTAL
		99	13	7	119
	ANATOMY	8	2Grx3H		11
	BIOPHYSICS	14	0		14
	HISTOLOGY and EMBRYOLOGY	14	0		14
	MEDICAL BIOLOGY	33	3Grx8H		35
	MEDICAL HISTORY & ETHICS	6	0		6
	MEDICAL MICROBIOLOGY	8	0		8
	ORGANIC CHEMISTRY	10	0		10
	PHYSIOLOGY	6	3Grx2H		8
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	141	33	7	181

Coordination Committee		
	Head	Deniz KIRAC, Assist. Prof.
	Secretary	Soner DOĞAN, Assoc. Prof
	Member	Bilge GÜVENÇ TUNA, Assist. Prof.
	Member	Alev CUMBUL, Assist. Prof.

**COMMITTEE II – CELL
LECTURERS**

BASIC MEDICAL SCIENCES I	
DISCIPLINE	FACULTY
ANATOMY	Erdem SÖZTUTAR, Assist. Prof. Dr.
BIOPHYSICS	Bilge GÜVENÇ TUNA, Assist. Prof. Dr.
HISTOLOGY & EMBRYOLOGY	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	Rainer BRÖMER, Assoc.Prof.Dr.
MEDICAL MICROBIOLOGY	Çağatay ACUNER, Assoc. Prof. Dr. Barış Ata BORSA, Assist. Prof.
ORGANIC CHEMISTRY	Esra ÖNEN BAYRAM, Assoc. Prof. Dr.
PHYSIOLOGY	Burcu GEMİCİ BAŞOL, Assist. Prof. Dr.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, Assoc. Prof.

INTRODUCTION TO CLINICAL PRACTICE I (ICP-I)	Güldal İZBIRAK, Assoc.Prof. Dr.
	Özlem TANRIÖVER, Assoc.Prof.
	Arzu AKALIN, Assist. Prof. Dr.
	Serdar Özdemir, Assist. Prof.
ANATOMICAL DRAWING	Refik AZİZ, Assist.Prof. Dr.
ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Davut EKŞİ, Instructor
HUMANITIES	
TURKISH LANGUAGE & LITERATURE	Bedri SELİMHOC AOĞLU, 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 sternum, 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	14	6	6	26
5.0 – 11.0	Dr. Alev Cumbul	14	6	6	26
	Dr. Aylin Yaba Uçar				
14.0 -18.0	Dr. Turgay Isbir	33	14	14	61
	Dr. Deniz Kıraç				
19.0	Dr. R. Brömer	6	3	3	12
20.1, 20.2	Dr. Çağatay Acuner	8	4	4	16
21.0, 22.0	Dr. Esra Önen Bayram	10	5	5	20
12.0-13.0	Dr. Burcu Gemici Başol	6	3	3	12
23.0	PBL Scenario	1	0	0	1
TOTAL		100	45/200[#]	45/200[#]	189
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 value of LPE is equal to 100 points

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

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

Abbreviations:

MCQ: Multiple Choice Question

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 / 30 October – 03 November 2017

	Monday 30-Oct-2017	Tuesday 31-Oct-2017	Wednesday 01-Nov-2017	Thursday 02-Nov-2017	Friday 03-Nov-2017
09.00- 09.50	PBL Session	Introductory Session Introduction to Committee II <i>Secretary of Committee II</i>	Lecture Cell; General Specification <i>Alev Cumbul</i>	Independent Learning	PBL Session
10.00- 10.50		Clinical Skills Learning ICP I Basic Life Support and Heimlich Maneuver <i>Güldal İzbirak & Arzu Akalın & Serdar Özdemir</i>	Lecture Cell Membrane Structure & Function <i>Alev Cumbul</i>	Lecture Cell Organelles <i>Aylin Yaba Uçar</i>	
11.00- 11.50		Group A Group B Scientific Project Small Group Studies Group C and D Independent Learning	Lecture Radiation Biophysics: Nucleus and Radioactivity <i>Bilge Güvenç Tuna</i>	Lecture Interaction of Radiation with Matter <i>Bilge Güvenç Tuna</i>	
12.00- 12.50	Independent Learning		Lecture Interaction of X or Gamma Rays with Matter <i>Bilge Güvenç Tuna</i>	Lunch Break	
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lecture Photoelectric Action, Compton Action <i>Bilge Güvenç Tuna</i>
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Cell Cycle and Mitosis-Meiosis <i>Deniz Kıraç</i>	Lecture Alcohols and Ethers <i>Esra Önen Bayram</i>	Laboratory / Med. Biology Mitosis and Meiosis <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>
15.00- 15.50			Lecture Cell Cycle and Mitosis-Meiosis <i>Deniz Kıraç</i>	Lecture Alcohols and Ethers <i>Esra Önen Bayram</i>	
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Lecture Nuclear stability <i>Bilge Güvenç Tuna</i>	Independent Learning	Laboratory / Med. Biology Mitosis and Meiosis <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>
17.00-17.50			Independent Learning		

COMMITTEE II – CELL
II. WEEK / 06 – 10 Nov 2017

	Monday 06-Nov-2017	Tuesday 07-Nov-2017	Wednesday 08-Nov-2017	Thursday 09-Nov-2017	Friday 10-Nov-2017		
09.00- 09.50	Independent Learning	Independent Learning	PBL Session	Lecture Deoxyribonucleic Acid and Ribonucleic Acid (Central Dogma) <i>Turgay İsbir</i>	Commemoration of Atatürk		
10.00- 10.50		Clinical Skills Learning ICP I Basic Life Support and Heimlich Maneuver <i>Güldal İzbirak & Arzu Akalın & Serdar Özdemir</i>		Lecture Protein Synthesis and Turnover <i>Turgay İsbir</i>			
11.00- 11.50		Group A Scientific Project Small Group Studies	Group B	Group C and D Independent Learning		Independent Learning	Lecture Distribution of Substances in Body Fluids <i>Burcu Gemici Başol</i>
12.00- 12.50						Lunch Break	Lecture Cell Membrane <i>Burcu Gemici Başol</i>
13.00- 13.50	Lunch Break	Lunch Break	Lecture Deoxyribonucleic Acid and Ribonucleic Acid <i>Turgay İsbir</i>	Lunch Break	Laboratory / Med. Biology Mitosis and Meiosis <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kiraç</i>		
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Deoxyribonucleic Acid and Ribonucleic Acid <i>Turgay İsbir</i>	Lecture The Great Epidemics <i>Medical History and Ethics</i>	Group A Independent Learning	Group B	Group C Independent Learning
15.00- 15.50			Lecture DNA and RNA (Central Dogma) <i>Turgay İsbir</i>	Lecture Renaissance Medicine <i>Medical History and Ethics</i>	Lecture Regulation of Gene Expression <i>Turgay İsbir</i>		
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Lecture General Structures of Bacteria <i>Çağatay Acuner</i>	Lecture Protein Synthesis and Turnover <i>Turgay İsbir</i>	Lecture Regulation of Gene Expression <i>Turgay İsbir</i>		
17.00-17.50			Lecture General Structures of Bacteria <i>Çağatay Acuner</i>	Lecture Biosynthesis of Nucleotides <i>Turgay İsbir</i>	Independent Learning		

COMMITTEE II – CELL
III. WEEK / 13 – 17 Nov 2017

	Monday 13-Nov-2017	Tuesday 14-Nov-2017	Wednesday 15-Nov-2017	Thursday 16-Nov-2017	Friday 17-Nov-2017	
09.00- 09.50	Independent Learning	Independent Learning	Lecture Protein Synthesis and Turnover <i>Turgay İsbir</i>	Independent Learning	Lecture Carbonyl Compounds <i>Esra Önen Bayram</i>	
10.00- 10.50		Clinical Skills Learning ICP I Basic Life Support and Heimlich Maneuver <i>Güldal İzbirak & Arzu Akalın & Serdar Özdemir</i>	Lecture Genomics, Proteomics and Metabolomics <i>Turgay İsbir</i>		Lecture Carbonyl Compounds <i>Esra Önen Bayram</i>	
11.00- 11.50		Group A and B Independent Learning	Group C	Group D Scientific Project Small Group Studiless	Lecture Tools in Medical Biology <i>Deniz Kiraç</i>	Lecture Vertebral column, ribs and sternum <i>Erdem Söztutar</i>
12.00- 12.50					Lecture Tools in Medical Biology <i>Deniz Kiraç</i>	Lecture Vertebral column, ribs and sternum <i>Erdem Söztutar</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Cytoskeleton <i>Aylin Yaba Uçar</i>	Independent Learning	Lecture Chromosome Structure and Function, Plasmids, Transposable Genetic Elements <i>Turgay İsbir</i>	
15.00- 15.50			Lecture Cell Nucleus and Cell Cycle <i>Aylin Yaba Uçar</i>		Lecture Genomics, Proteomics and Metabolomics <i>Turgay İsbir</i>	
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Independent Learning	Lecture Chromosome Structure and Function, Plasmids, Transposable Genetic Elements <i>Turgay İsbir</i>	Independent Learning	
17.00-17.50				Independent Learning		

COMMITTEE II – CELL
IV. WEEK / 20 – 24 November 2017

	Monday 20-Nov-2017	Tuesday 21-Nov-2017	Wednesday 22-Nov-2017	Thursday 23-Nov-2017	Friday 24-Nov-2017
09.00- 09.50	Independent Learning	Independent Learning	Lecture General Structure of Viruses <i>Bariş Ata Borsa</i>	Lecture Neurocranium <i>Erdem Söztutar</i>	Lecture Carboxylic Acids and Nitriles <i>Esra Önen Bayram</i>
10.00- 10.50	Laboratory / Anatomy Vertebral Column, Sternum, and the Ribs <i>Erdem Söztutar</i> Group A	Clinical Skills Learning ICP I Basic Life Support and Heimlich Maneuver <i>Güldal İzbirak & Arzu Akalın & Serdar Özdemir</i>	Lecture General Structure of Viruses <i>Bariş Ata Borsa</i>	Lecture Neurocranium <i>Erdem Söztutar</i>	Lecture Carboxylic Acids and Nitriles <i>Esra Önen Bayram</i>
11.00- 11.50	Group A Independent Learning	Group B Independent Learning	Lecture Tools in Medical Biology <i>Turgay İsbir</i>	Lecture Neurocranium <i>Erdem Söztutar</i>	Lecture Radiation Protection (Safety) <i>Bilge Güvenç Tuna</i>
12.00- 12.50	Independent Learning	Group A and B Independent Learning	Group C Scientific Project Small Group Studiess	Group D	Lunch Break
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
13.00- 13.50	Lunch Break	Lunch Break	Lecture Introduction to Embryology and Human Devopmental Period <i>Alev Cumbul</i>	Lecture Half Value Layer, Attenuation <i>Bilge Güvenç Tuna</i>	Laboratory / Anatomy Neurocranium <i>Erdem Söztutar</i> Group A Independent Learning
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Gametogenesis; Spermatogenesis <i>Alev Cumbul</i>	Lecture Units of Radioactivity <i>Bilge Güvenç Tuna</i>	Group B Independent Learning
15.00- 15.50			Lecture DNA Damage and Repair Mechanism <i>Turgay İsbir</i>	Lecture Transport of Substances Through the Cell Membrane <i>Burcu Gemici Başol</i>	Lecture The Demise of Humoral Theory <i>Medical History and Ethics</i>
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Lecture DNA Damage and Repair Mechanism <i>Turgay İsbir</i>	Lecture Transport of Substances Through the Cell Membrane <i>Burcu Gemici Başol</i>	Lecture Medicalisation <i>Medical History and Ethics</i>
17.00-17.50			Independent Learning	Independent Learning	

COMMITTEE II – CELL
V. WEEK / 27 Nov – 01 Dec 2017

	Monday 27-Nov-2017	Tuesday 28-Nov-2017	Wednesday 29-Nov-2017	Thursday 30-Nov-2017	Friday 01-Dec-2017
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Lecture General structure of fungi <i>Çağatay Acuner</i>	Laboratory / Med. Biology Nucleic Acid Purification <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>
10.00- 10.50		Clinical Skills Learning ICP I Patient-Causalty Transportation / Bandaging Techniques <i>Özlem Tanrıöver & Serdar Özdemir</i>	Lecture Mitosis & Meiosis <i>Alev Cumbul</i>	Lecture General structure of fungi <i>Çağatay Acuner</i>	Group A Group B Independent Learning Group C Independent Learning
11.00- 11.50		Group A Group B Scientific Project Small Group Studiess Group C and D Independent Learning	Lecture Radioisotopes in Medicine <i>Bilge Güvenç Tuna</i>	Lecture Mendelian Laws and Inheritance <i>Turgay İsbir</i>	Laboratory / Med. Biology Nucleic Acid Purification <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>
12.00- 12.50			Lecture Biological mechanisms of Radiation <i>Bilge Güvenç Tuna</i>	Lecture Mendelian Laws and Inheritance <i>Turgay İsbir</i>	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 <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Gametogenesis; Oogenesis; Ovarian Cycle <i>Alev Cumbul</i>	Lecture Medical Imaging: Nuclear Medicine <i>Bilge Güvenç Tuna</i>	Laboratory / Med. Biology Nucleic Acid Purification <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>
15.00- 15.50			Lecture Oogenesis; Follicular and Menstruel Cycle <i>Alev Cumbul</i>	Lecture Medical Imaging: Applications of X-ray Attenuation & Detection <i>Bilge Güvenç Tuna</i>	Group A Independent Learning Group B Independent Learning Group C
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Lecture Mutation and Polymorphism <i>Turgay İsbir</i>	Lecture Cell and Gene Therapy <i>Turgay İsbir</i>	Independent Learning
17.00-17.50			Lecture Mutation and Polymorphism <i>Turgay İsbir</i>	Lecture Cell and Gene Therapy <i>Turgay İsbir</i>	

COMMITTEE II – CELL
VI. WEEK / 04 – 08 Dec 2017

	Monday 04-Dec-2017	Tuesday 05-Dec-2017	Wednesday 06-Dec-2017	Thursday 07-Dec-2017	Friday 08-Dec-2017		
09.00- 09.50	Independent Learning	Clinical Skills Learning ICP I Patient-Causalty Transportation /Bandaging Techniques <i>Özlem Tanrıöver & Serdar Özdemir</i>	Lecture Amines <i>Esra Önen Bayram</i>	Lecture General Structure of Parasites <i>Bariş Ata Borsa</i>	Laboratory / Med. Biology Epigenetics (Population Genetics) <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kırac</i>		
10.00- 10.50		Group A and D Independent Learning	Group B	Group C Scientific Project Small Group Studieess	Group A Independent Learning	Group B Independent Learning	Group C
11.00- 11.50		Group A and D Independent Learning	Group B	Group C Scientific Project Small Group Studieess	Lecture Lasers in Medicine <i>Bilge Güvenç Tuna</i>	Lecture Cells and Bacteria <i>Medical History and Ethics</i>	Laboratory / Med. Biology Epigenetics (Population Genetics) <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kırac</i>
12.00- 12.50		Independent Learning	Independent Learning	Lecture Fertilization <i>Aylin Yaba Uçar</i>	Lecture Anaesthesia, Antisepsis <i>Medical History and Ethics</i>	Group A Independent Learning	Group B
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break		
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoglu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Blastulation <i>Aylin Yaba Uçar</i>	Lecture Viscocranium <i>Erdem Söztutar</i>	Laboratory / Med. Biology Epigenetics (Population Genetics) <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kırac</i>		
15.00- 15.50			Lecture Implantation <i>Aylin Yaba Uçar</i>	Lecture Viscocranium <i>Erdem Söztutar</i>	Group A	Group B Independent Learning	Group C Independent Learning
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Common Compulsory Course Humanities <i>Instructor</i>	Lecture Mendelian Laws and Inheritance <i>Turgay İsbir</i>	Lecture Viscocranium <i>Erdem Söztutar</i>	Independent Learning		
17.00-17.50			Independent Learning	Independent Learning			

COMMITTEE II – CELL
VII. WEEK / 11 – 15 Dec 2017

	Monday 11-Dec-2017	Tuesday 12-Dec-2017	Wednesday 13-Dec-2017	Thursday 14-Dec-2017	Friday 15-Dec-2017
09.00- 09.50	Independent Learning	Independent Learning	Lecture Steroids <i>Esra Önen Bayram</i>	Lecture Mendelian Laws and Inheritance <i>Turgay İsbir</i>	Laboratory / Physiology Osmosis & Diffusion <i>Burcu Gemici Başol</i>
10.00- 10.50			Clinical Skills Learning ICP I Patient-Causalty Transportation / Bandaging Techniques <i>Özlem Tanrıöver & Serdar Özdemir</i>	Lecture Steroids <i>Esra Önen Bayram</i>	
11.00- 11.50	Laboratory / Anatomy Viscocranium <i>Erdem Söztutar</i>	Group A Independent Learning	Laboratory / Med. Biology Gene Identification in Cancer <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>	Lecture Biological Aspects of Development <i>Turgay İsbir</i>	Laboratory / Physiology Osmosis & Diffusion <i>Burcu Gemici Başol</i>
12.00- 12.50	Group B Independent Learning		Group A	Group A Independent Learning	
13.00- 13.50	Learning	Group C	Group D Sci. Small Group Studiess	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 <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Laboratory / Med. Biology Gene identification in Cancer <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>	Lecture Lasers in Medicine <i>Bilge Güvenç Tuna</i>	Laboratory / Physiology Osmosis & Diffusion <i>Burcu Gemici Başol</i>
15.00- 15.50			Group A	Group B Independent Learning	
15.00- 15.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey	Common Compulsory Course Humanities <i>Instructor</i>	Laboratory / Med. Biology Gene identification in Cancer <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>	Lecture Osmotic Pressure and Permeability of The Cell Membrane <i>Burcu Gemici Başol</i>	Group C
16.00- 16.50			Independent Learning	Independent Learning	Laboratory / Med. Biology Gene identification in Cancer <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>

17.00-17.50	Davut Ekşi		Group A Independent Learning	Group B	Grup C Independent Learning	Independent Learning	
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COMMITTEE II – CELL
VIII. WEEK / 18 – 22 Dec 2017

	Monday 18-Dec-2017	Tuesday 19-Dec-2017	Wednesday 20-Dec-2017	Thursday 21-Dec-2017	Friday 22-Dec-2017
09.00- 09.50	Independent Learning	Assessment Session Physiology (Practical Exam)	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50					Assessment Session Committee II (MCQ)
11.00- 11.50		Assessment Session Medical Biology (Practical Exam)			
12.00- 12.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
13.00- 13.50	Independent Learning	Assessment Session Anatomy (Practical Exam)	Independent Learning	Independent Learning	Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee II Program <i>Head of Committee</i>
14.00- 14.50					Independent Learning
15.00- 15.50					
16.00- 16.50					
17.00-17.50					

COMMITTEE III - TISSUE I
DISTRIBUTION of LECTURE HOURS
December 25th, 2017 - February 23rd, 2018
COMMITTEE DURATION: 6 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	PBL	TOTAL
	DISCIPLINE	60	18	5	83
	ANATOMY	18	2Grx5H		23
	BIOPHYSICS	10	0		10
	HISTOLOGY & EMBRYOLOGY	12	2Grx5H		17
	MEDICAL HISTORY & ETHICS	6	0		6
	PHYSIOLOGY	8	3Grx8H		16
	SCIENTIFIC PROJECT I	2	0		2
	IMMUNOLOGY	4			4
MD 102	ICP-I	8	1Grx3H		8
MED 103	ANATOMICAL DRAWING	0	8		8
HTR 301-302	ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	6	0		8
	ELECTIVE COURSE	4	0		4
TKL 201-202	TURKISH LANGUAGE & LITERATURE	6	0		8
	TOTAL	85	26	5	115

Coordination Committee	Head	Erdem SÖZTUTAR, MD, Assist. Prof.
	Secretary	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
	Member	Burcu Gemici BAŞOL, PhD. Asisst. Prof.
	Member	Alev CUMBUL PhD Assist. Prof.

**COMMITTEE III –TISSUE I
LECTURERS**

BASIC MEDICAL SCIENCES I	
DISCIPLINE	FACULTY
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Alev CUMBUL, PhD, Assist. Prof.
	Aylin YABA UÇAR, PhD, Assist. Prof.
MEDICAL HISTORY & ETHICS	Rainer BRÖMER, Assoc.Prof.Dr.
PHYSIOLOGY	Burcu GEMİCİ BAŞOL, Assist. Prof. Dr.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD, Assoc. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, Assoc. Prof.

INTRODUCTION TO CLINICAL PRACTICE I (ICP-I)	Güldal İZBIRAK, MD, Assoc.Prof.
	Özlem TANRIÖVER, MD, Assoc.Prof.
	Arzu AKALIN, MD, Assist. Prof.
	Serdar ÖZDEMİR, 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 SELİMHOC AOĞLU, Instructor

COMMITTEE III –TISSUE I AIM AND LEARNING OBJECTIVES

AIM

1. **to convey** basic terms and concepts for anatomy, physiology, embryology, histology, immunology, 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. define the basics of immune response
- 17.0. explain case scenario related basic medical science topics in a clinical context.

**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	30	8	8	46
	Dr. E. Söztutar				
4.0, 5.0	Dr. B.Güvenç Tuna	16	4	4	25
6.0, -10.0	Dr. A. Cumbul	22	6	6	34
	Dr. A. Yaba Uçar				
11.0	Dr. R. Brömer	10	3	3	16
12.0 -15.0	Dr. B. Gemici Başol	14	4	4	22
16.0	Dr. G. Yanıkkaya Demirel	7	2	2	11
17.0	PBL Scenario	1	0	0	1
	TOTAL	100	27/200[#]	27/200[#]	154

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS
		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 value of LPE is equal to 100 points

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

[#]In FE and ICE **26** out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:

MCQ: Multiple Choice Question

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 / 25 – 29 Dec 2017

	Monday 25-Dec-2017	Tuesday 26-Dec-2017	Wednesday 27-Dec-2017	Thursday 28-Dec-2017	Friday 29-Dec-2017	
09.00- 09.50	PBL Session	Independent Learning	Lecture Histology of Covering Epithelium; Surface Specification <i>Aylin Yaba Uçar</i>	Independent Learning	PBL Session	
10.00- 10.50		Clinical Skills Learning ICP I Patient-Causalty Transportation / Bandaging Techniques <i>Özlem Tanrıöver & Serdar Özdemir</i>	Lecture Histology of Glandular Epithelium <i>Aylin Yaba Uçar</i>			
11.00- 11.50		Group A Scientific Project Small Group Studliess	Group B and C Independent Learning			Group D
12.00- 12.50	Independent Learning			Lecture Membrane Potentials and Action Potentials <i>Burcu Gemici Başol</i>	Independent Learning	
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Introductory Session Introduction to Committee III <i>Secretary of Committee III</i>	Lecture Introduction to Arthrology <i>Erdem SÖZTUTAR</i>	Laboratory / Histology Histology of Epithel Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i>	Independent Learning	Lecture Joints of the upper limb <i>Erdem SÖZTUTAR</i>	
15.00- 15.50	Lecture Histology of Covering Epithelium; Structure, Classification <i>Aylin Yaba Uçar</i>	Lecture Introduction to Arthrology <i>Erdem SÖZTUTAR</i>	Group A Independent Learning		Group B	Lecture Joints of the upper limb <i>Erdem SÖZTUTAR</i>
16.00- 16.50	Independent Learning	Lecture Joints of the Upper Limb <i>Erdem SÖZTUTAR</i>	Introduction to Elective Courses		Lecture Skeletal Muscle Physiology <i>Burcu Gemici Başol</i>	
17.00-17.50		Independent Learning		Independent Learning		

COMMITTEE III - TISSUE I
II. WEEK / 01 – 05 Jan 2018

	Monday 01-Jan-2018	Tuesday 02-Jan-2018	Wednesday 03-Jan-2018	Thursday 04-Jan-2018	Friday 05-Jan-2018				
09.00- 09.50	01 JANUARY 2018 OFFICIAL HOLIDAY	Independent Learning	Lecture Histology of Heart & Smooth Muscle <i>Alev Cumbul</i>	Laboratory / Histology Histology of Epithel Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i>	Laboratory / Physiology EMG I <i>Burcu Gemici Başol</i>				
10.00- 10.50		Lecture / ICP I Introduction to Communication Skills <i>Özlem Tanrıöver</i>	Lecture Development of the Muscular System <i>Alev Cumbul</i>	Group A	Group B Independent Learning	Group A	Group B Independent Learning	Group C Independent Learning	
11.00- 11.50		Lecture / ICP I Basic Communication Skills <i>Arzu Akalin</i>	Lecture Asymmetric distribution& transport of ions <i>Bilge Güvenç Tuna</i>	Lecture Histology of Muscle Tissue; General Specification <i>Alev Cumbul</i>	Group A Independent Learning	Group B	Group C Independent Learning		
12.00- 12.50		Lecture / ICP I Basic Communication Skills <i>Arzu Akalin</i>	Lecture Asymmetric distribution& transport of ions <i>Bilge Güvenç Tuna</i>	Lecture Histology of Striated Skeletal Muscle <i>Alev Cumbul</i>	Group A Independent Learning	Group B	Group C Independent Learning		
13.00- 13.50			Lunch Break	Lunch Break	Lunch Break	Lunch Break			
14.00- 14.50			Laboratory / Anatomy Joints of the upper limb <i>Erdem Söztutar</i>	Lecture Joints of the Lower Limb <i>Erdem SÖZTUTAR</i>	Lecture What is immunology? <i>Gulderen Yanikkaya Demirel</i>	Laboratory / Physiology EMG I <i>Burcu Gemici Başol</i>	Group A Independent Learning	Group B Independent Learning	Group C
15.00- 15.50			Group A Independent Learning	Lecture Joints of the Lower Limb <i>Erdem SÖZTUTAR</i>	Lecture What is immunology? <i>Gulderen Yanikkaya Demirel</i>	Group A Independent Learning	Group B Independent Learning	Group C	
			Group B		Laboratory/Anatomy Joints of the lower limb <i>Erdem Soztutar</i>				
16.00- 16.50			Lecture Rise of the Hospitals <i>Medical History and Ethics</i>	Lecture Joints of the Lower Limb <i>Erdem SÖZTUTAR</i>	Group A Independent Learning	Group B	Lecture Joints of the Vertebral Column <i>Erdem SÖZTUTAR</i>		
17.00-17.50			Lecture From Mahmud II's Mekteb-i Tibbiye to the University Reform 1933 <i>Medical History and Ethics</i>	Independent Learning	Group A	Group B Independent Learning	Lecture Joints of the Axial Skeleton <i>Erdem SÖZTUTAR</i>		

COMMITTEE III - TISSUE I
III. WEEK / 8 Jan - 12 Jan 2018

	Monday 8-Jan-2018	Tuesday 9-Jan-2018	Wednesday 10-Jan-2018	Thursday 11-Jan-2018	Friday 12-Jan-2018			
09.00- 09.50	Laboratory / Histology Histology of Muscle Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i>	Lecture Histology of Connective Tissue; Extracellular Matrix <i>Alev Cumbul</i>	Lecture Smooth Muscle Physiology <i>Burcu Gemici Başol</i>	Laboratory / Histology Histology of Muscle Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i>	Laboratory / Physiology EMG II <i>Burcu Gemici Başol</i>			
10.00- 10.50	Group A	Group B Independent Learning	Lecture / ICP I The Medical Interview <i>Güldal İzbrak</i>	Lecture Smooth Muscle Physiology <i>Burcu Gemici Başol</i>	Group A Independent Learning	Group B	Group B Independent Learning	Group C
11.00- 11.50	Laboratory / Anatomy Joints of the Vertebral Column and Axial Skeleton <i>Erdem Soztutar</i>	Lecture / ICP I The Medical Interview <i>Güldal İzbrak</i>	Lecture Resting membrane potential: Ionic balance <i>Bilge Güvenç Tuna</i>	Lecture Cells and tissues of immune system <i>Gulderen Yanikkaya Demirel</i>	Laboratory / Physiology EMG II <i>Burcu Gemici Başol</i>			
	Group A	Group B Independent Learning						
12.00- 12.50	Group A Independent Learning	Group B	Lecture / ICP I Giving Information <i>Özlem Tanrıöver</i>	Lecture Nernst and Goldman equations <i>Bilge Güvenç Tuna</i>	Lecture Cells and tissues of immune system <i>Gulderen Yanikkaya Demirel</i>	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	Lecture Neuromuscular Transmission <i>Burcu Gemici Başol</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Joints of the Cranium and Fontanelles <i>Erdem SÖZTUTAR</i>	Lecture Histology of Connective Tissue; Cells <i>Alev Cumbul</i>	Laboratory / Physiology EMG II <i>Burcu Gemici Başol</i>			
15.00- 15.50			Lecture Joints of the Cranium and Fontanelles <i>Erdem SÖZTUTAR</i>	Lecture Histology of Connective Tissue Proper; Types <i>Alev Cumbul</i>	Group A	Group B Independent Learning	Group C Independent Learning	
16.00- 16.50	Independent Learning	Independent Learning	Lecture Antibiotics, Cancer Therapy <i>Medical History and Ethics</i>	Lecture Biophysical modeling of membrane & ion channels <i>Bilge Güvenç Tuna</i>	Independent Learning			
17.00-17.50			Lecture Heyday and Crisis (20 th c.) <i>Medical History and Ethics</i>	Independent Learning				

MIDTERM BREAK

15 JAN 2018 - 26 JAN 2018

COMMITTEE III - TISSUE I
IV. WEEK / 29 Jan – 02 Feb 2018

	Monday 29-Jan-2018	Tuesday 30-Jan-2018	Wednesday 31-Jan-2018	Thursday 01-Feb-2018	Friday 02-Feb-2018
09.00- 09.50	Independent Learning	Independent Learning	Lecture Genetic Medicine <i>Medical History and Ethics</i>	Lecture / Scientific Project I How to Read an Article <i>Gülderen Yanıkkaya Demirel</i>	Independent Learning
10.00- 10.50	Laboratory/Anatomy Joints of the Cranium and Fontanelles <i>Erdem Söztutar</i> Group A Independent Learning Group B	Lecture Contractile machinery; sliding filament theory <i>Bilge Güvenç Tuna</i>	Lecture History of our Future <i>Medical History and Ethics</i>	Lecture / Scientific Project I How to Read an Article <i>Gülderen Yanıkkaya Demirel</i>	
11.00- 11.50	Group A Group B Independent Learning	Lecture / ICP I The Medical History <i>Güldal İzbirak</i>	Lecture Action potential: Rheobase and Chronaxie <i>Bilge Güvenç Tuna</i>	Lecture Muscles of the Back <i>Erdem Söztutar</i>	Laboratory / Physiology Smooth Muscle Contractility <i>Burcu Gemici Başol</i>
12.00- 12.50	Lunch Break	Lecture / ICP I The Medical History <i>Güldal İzbirak</i>	Lecture Impulse propagation <i>Bilge Güvenç Tuna</i>	Lecture Muscles of the Back and Nape <i>Erdem Söztutar</i>	Group A Group B Independent Learning Group C Independent Learning
13.00- 13.50	PROGRAM IMPROVEMENT SESSION <i>Phase Coordinator</i>	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Introduction to Myology <i>Erdem Söztutar</i>	Lecture Blood, RBC and Platelets <i>Aylin Yaba Uçar</i>	Laboratory / Physiology Smooth Muscle Contractility <i>Burcu Gemici Başol</i>
15.00- 15.50			Lecture Introduction to Myology <i>Erdem Söztutar</i>	Lecture Blood WBC, Blood Smear <i>Aylin Yaba Uçar</i>	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 <i>Davut Ekşi</i>	Lecture Physiology of Cardiac Muscle <i>Burcu Gemici Başol</i>	Lecture Muscle mechanic; mechanical Powers of cardiac and skeletal muscle <i>Bilge Güvenç Tuna</i>	Laboratory / Physiology Smooth Muscle Contractility <i>Burcu Gemici Başol</i>
17.00-17.50			Lecture Physiology of Cardiac Muscle <i>Burcu Gemici Başol</i>	Independent Learning	Group A Independent Learning Group B Group C Independent Learning

COMMITTEE III - TISSUE I
V. WEEK / 5 Feb – 9 Feb 2018

	Monday 05-Feb-2018	Tuesday 06-Feb-2018	Wednesday 07-Feb-2018	Thursday 08-Feb-2018	Friday 09-Feb-2018	
09.00- 09.50	Independent Learning	Independent Learning	Laboratory / Histology <i>Alev Cumbul & Aylin Yaba Uçar</i> Review Session Group A and B	Lecture Haematopoiesis <i>Aylin Yaba Uçar</i>	Independent Learning	
10.00- 10.50		Assessment Session ICP I (MCQ)	Laboratory / Physiology Cardiac Muscle with PhysioEx <i>Burcu Gemici Başol</i>	Lecture Biophysics of smooth muscle contraction <i>Bilge Güvenç Tuna</i>		
11.00- 11.50	Laboratory / Anatomy Muscles of the Back and Nape <i>Erdem Söztutar</i> Group A			Independent Learning Group B		
12.00- 12.50	Independent Learning Group A			Independent Learning Group B		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 <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Laboratory / Physiology Cardiac Muscle with PhysioEx <i>Burcu Gemici Başol</i>	ELECTIVE WEEK I	Independent Learning	
15.00- 15.50			Independent Learning Group A			Independent Learning Group B
16.00- 16.50	Lecture Introduction to Peripheral Nervous System <i>Erdem Söztutar</i>	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Independent Learning Group A	Independent Learning		ELECTIVE WEEK I
17.00-17.50	Lecture Spinal Nerves <i>Erdem Söztutar</i>		Independent Learning Group B			

COMMITTEE III - TISSUE I
VI. WEEK / 12 – 16 Feb 2018

	Monday 12-Feb-2018	Tuesday 13-Feb-2018	Wednesday 14-Feb-2018	Thursday 15-Feb-2018	Friday 16-Feb-2018
09.00- 09.50	Independent Learning	Assessment Session Histology (Practical Exam)	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50	Assessment Session Anatomy (Practical Exam)				Assessment Session Physiology (Practical Exam)
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoglu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Independent Learning	Independent Learning	Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee III Program <i>Head of Committee</i>
15.00- 15.50					
16.00- 16.50	Independent Learning	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>			Independent Learning
17.00-17.50					

COMMITTEE IV - TISSUE II
DISTRIBUTION of LECTURE HOURS
February 19, 2018 - April 13, 2018
COMMITTEE DURATION: 8 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	TOTAL
	DISCIPLINE	108	18	126
	ANATOMY	22	2Grx9H	31
	BEHAVIORAL SCIENCES	14	0	14
	BIOCHEMISTRY	34	3Grx2H	36
	BIOPHYSICS	6	0	6
	BIOSTATISTICS	12	0	12
	HISTOLOGY & EMBRYOLOGY	8	2Grx5H	13
	MEDICAL BIOLOGY	8	3Grx2H	10
	IMMUNOLOGY	4	0	4

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	16	0	16

	TOTAL	156	55	211
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Coordination Committee	Head	İnci ÖZDEN, PhD, Prof.
	Secretary	Aylin YABA UÇAR, PhD, Assist. Prof.
	Member	Deniz KIRAÇ, PhD, Assist. Prof.
	Member	Erdem SÖZTUTAR, MD, Assist. Prof.

**COMMITTEE IV – TISSUE II
LECTURERS**

BASIC MEDICAL SCIENCES I	
DISCIPLINE	FACULTY
ANATOMY	Erdem SÖZTUTAR, MD., Assist. Prof.
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 ALTUNOK, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	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.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, Assoc. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD, Assoc. Prof.
INTRODUCTION TO CLINICAL PRACTICE I (ICP-I)	Güldal İZBİRAK, 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 SELİMHOC AOĞLU, Instructor

COMMITTEE IV – TISSUE II

AIM AND LEARNING OBJECTIVES

AIM

1. **to convey** basic terms and concepts for anatomy, embryology, histology, immunology, 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.
- 17.0. define the basics of immune response

**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	21	10	10	40
4.0, - 7.0	Behavioral Science	13	6	6	25
8.0 – 10.0	Dr. İ. Özden Dr. B. Dalan	31	16	16	63
11.0	Dr. B.G. Tuna	5	2	2	10
12.0,13.0	Dr. Ç. ALTUNOK	-	6	6	12
14.0 – 15.0 14.0 – 15.0	Dr. A. Cumbul Dr. A. Yaba Uçar	8	4	4	15
16.0	Dr. T. İsbir	7	4	4	15
17.0	Dr. G. Yanıkkaya Demirel	4	2	2	8
	TOTAL	89	50/200[#]	50/200[#]	189
LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of MEQ*POINTS			
		CE			
12.0,13.0	BIostatISTICS	11			
	TOTAL	11			
LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS			
		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 value of LPE is equal to 100 points

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

[#]In FE and ICE **50** out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:

MCQ: Multiple Choice Question

MEQ: Modified Essay Questions * Biostatistics exam will be given separately before the committee exam date.

LPE: Practical Lecture Evaluation

CE: Committee Exam

CS: Committee Score

FE: Final Exam

ICE: Incomplete Exam

COMMITTEE IV -TISSUE II
I. WEEK / 26 Feb – 02 Mar 2018

	Monday 19-Feb-2018	Tuesday 20-Feb-2018	Wednesday 21-Feb-2018	Thursday 22-Feb-2018	Friday 23-Feb-2018	
09.00- 09.50	Independent Learning	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach <i>Özlem Tannıöver & Arzu Akalın</i>	Lecture Histology of Adipose Tissue <i>Alev Cumbul</i>	Lecture Monosaccharide Derivatives, Disaccharides, Polysaccharides, Starch, Glycogen <i>Inci Özden</i>	Independent Learning	
10.00- 10.50		Group A Group B Scientific Project Small Group Studies Group C and D Independent Learning	Lecture Classification of Carbohydrates, General Features of Carbohydrates <i>Inci Özden</i>	Lecture Monosaccharide Derivatives, Disaccharides, Polysaccharides, Starch, Glycogen <i>Inci Özden</i>	Lecture Glycosaminoglycans, Structures and Functions <i>Inci Özden</i>	
11.00- 11.50			Lecture Classification of Carbohydrates, General Features of Carbohydrates <i>Inci Özden</i>	Behavioral Science / Lecture Life Cycle: Pregnancy through Preschool <i>Instructors</i>	Lecture Glycosaminoglycans, Structures and Functions <i>Inci Özden</i>	
12.00- 12.50		Introductory Session Introduction to Committee IV <i>Head of Committee IV</i>	Lunch Break	Behavioral Science / Lecture Life Cycle; School age, Adolescence and Adulthood <i>Instructors</i>	Lunch Break	
13.00- 13.50	Lunch Break	Lunch Break	Independent Learning	Lunch Break	Lecture Extracellular Matrix <i>Turgay İsbir</i>	
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Muscles of the Arm <i>Erdem Söztutar</i>	ELECTIVE WEEK II	Independent Learning	Lecture Extracellular Matrix <i>Turgay İsbir</i>
15.00- 15.50			Lecture Muscles of the Arm <i>Erdem Söztutar</i>			Lecture Muscles of the Forearm <i>Erdem Söztutar</i>
16.00- 16.50	Lecture Muscles of the Shoulder Girdle <i>Erdem Söztutar</i>	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Laboratory / Anatomy Muscles of the Shoulder Girdle and Axilla <i>Erdem Söztutar</i>	Independent Learning	ELECTIVE WEEK II	Lecture Muscles of the Forearm <i>Erdem Söztutar</i>
17.00-17.50	Lecture Muscles of the Shoulder Girdle and Axilla <i>Erdem Söztutar</i>		Group A Independent Learning			Group B Independent Learning

COMMITTEE IV - TISSUE II
II. WEEK / 26 Feb – 02 Mar 2018

	Monday 26-Feb-2018	Tuesday 27-Feb-2018	Wednesday 28-Feb-2018	Thursday 01-Mar-2018	Friday 02-Mar-2018	
09.00- 09.50	Independent Learning	Independent Learning	Lecture Classification of Lipids, General Features of Lipids <i>Inci Özden</i>	Lecture Saturated and Unsaturated Fatty Acids, Essential Fatty Acids <i>Inci Özden</i>	Lecture Triacylglycerols <i>Inci Özden</i>	
10.00- 10.50	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach <i>Özlem Tanrıöver & Arzu Akalın</i>		Lecture Classification of Lipids, General Features of Lipids <i>Inci Özden</i>	Lecture Saturated and Unsaturated Fatty Acids, Essential Fatty Acids <i>Inci Özden</i>	Lecture Triacylglycerols <i>Inci Özden</i>	
11.00- 11.50	Group A and D Independent Learning		Lecture Histology of Bone Tissue; Microscopic Structure <i>Alev Cumbul</i>	Behavioral Science / Lecture Life Cycle; Aging, Death and Bereavement <i>Instructors</i>	Lecture Digital recording of biomedical signals <i>Bilge Güvenç Tuna</i>	
12.00- 12.50	Group B Group C Scientific Project Small Group Studies		Lecture Histology of Cartilage Tissue <i>Alev Cumbul</i>	Behavioral Science / Lecture Life Cycle; Aging, Death and Bereavement <i>Instructors</i>	Lecture Digital recording of biomedical signals <i>Bilge Güvenç Tuna</i>	
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Laboratory / Anatomy Muscles of the Forearm <i>Erdem Söztutar</i>	ELECTIVE WEEK III	Independent Learning	Lecture Main Concepts in Biostatistics <i>E.Çiğdem Altunok</i>
15.00- 15.50			Group A Independent Learning	Group B Independent Learning		Lecture Main Concepts in Biostatistics <i>E.Çiğdem Altunok</i>
16.00- 16.50	Laboratory / Anatomy Muscles of the Arm <i>Erdem Söztutar</i>	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Lecture Extracellular Matrix <i>Turgay İsbir</i>	Independent Learning	ELECTIVE WEEK III	Lecture Extracellular Matrix <i>Turgay İsbir</i>
17.00-17.50	Group A Independent Learning		Lecture Extracellular Matrix <i>Turgay İsbir</i>			Lecture Extracellular Matrix <i>Turgay İsbir</i>

COMMITTEE IV - TISSUE II
III. WEEK / 05 – 09 Mar 2018

	Monday 05-Mar-2018	Tuesday 06-Mar-2018	Wednesday 07-Mar-2018	Thursday 08-Mar-2018	Friday 09-Mar-2018
09.00- 09.50	Laboratory / Histology Histology of Connective and Cartilage Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i>	Lecture Glycerophospholipids, Sphingophospholipids <i>Inci Özden</i>	Lecture Histology of Bone Tissue; Ossification <i>Alev Cumbul</i>	Lecture Frequency Distributions <i>E.Çiğdem Altunok</i>	Independent Learning
10.00- 10.50	Group A Independent Learning	Lecture Glycerophospholipids, Sphingophospholipids <i>Inci Özden</i>	Lecture Development of the Axial Skeleton and Limb <i>Alev Cumbul</i>	Lecture Graphics <i>E.Çiğdem Altunok</i>	Lecture Amino Acids, General Features, Classification <i>Burak Dalan</i>
11.00- 11.50	Group A	Lecture Mechanical Properties of Biomaterials <i>Bilge Güvenç Tuna</i>	Lecture Isoprene Derivative, Steroids, Bile Acids <i>Inci Özden</i>	Behavioral Science / Lecture The Biological Bases of Behavior <i>Instructors</i>	Lecture Amino Acids, General Features, Classification <i>Burak Dalan</i>
12.00- 12.50	Group B Independent Learning	Independent Learning	Lecture Isoprene Derivatives, Steroids, Bile Acids <i>Inci Özden</i>	Behavioral Science / Lecture The Biological Bases of Behavior <i>Instructors</i>	Lecture Stress-Strain, Stiffness <i>Bilge Güvenç Tuna</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Histology of Nervous Tissue: General Specification <i>Aylin Yaba Uçar</i>	ELECTIVE WEEK IV	Independent Learning
15.00- 15.50			Lecture Histology of Nervous Tissue: Neuron Types <i>Aylin Yaba Uçar</i>		Lecture Eicosanoids <i>Inci Özden</i>
16.00- 16.50	Lecture Muscles of the Hand <i>Erdem Söztutar</i>	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Laboratory / Anatomy Muscles of the Hand <i>Erdem Söztutar</i>	Independent Learning	ELECTIVE WEEK IV
17.00-17.50	Lecture Muscles of the Hand <i>Erdem Söztutar</i>		Group A Independent Learning	Group B Independent Learning	Lecture Brachial Plexus <i>Erdem Söztutar</i>

COMMITTEE IV - TISSUE II
IV. WEEK / 12 – 16 Mar 2018

	Monday 12-Mar-2018	Tuesday 13-Mar-2018	Wednesday 14-Mar-2018	Thursday 15-Mar-2018	Friday 16-Mar-2018			
09.00- 09.50	Laboratory / Histology Histology of Bone and Nervous Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i>	Lecture Elasticity <i>Bilge Güvenç Tuna</i>	PHYSICIAN'S DAY & WHITE COAT CEREMONY	Lecture Primary, Secondary, Tertiary, Quaternary Structures of Proteins <i>Burak Dalan</i>	Lecture Shear stress, Poisson's Law <i>Bilge Güvenç Tuna</i>			
10.00- 10.50	Group A	Group B Independent Learning		Clinical Skills Learning ICP I Patient-Doctor Communication Skills, General Approach <i>Özlem Tanrıöver & Arzu Akalin</i>	Lecture Primary, Secondary, Tertiary, Quaternary Structures of Proteins <i>Burak Dalan</i>	Lecture Glycoproteins, Collagen, α -keratin <i>Burak Dalan</i>		
11.00- 11.50	Group A Independent Learning	Group B		Group A and B Independent Learning	Group C	Group D Project Small Group Studies	Behavioral Science / Lecture Sleep and Sleep Disorders <i>Instructors</i>	Lecture Glycoproteins, Collagen, α -keratin <i>Burak Dalan</i>
12.00- 12.50					Behavioral Science / Lecture Substance Related Disorders <i>Instructors</i>	Lunch Break		
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lecture Biology of Oxidative Stress <i>Turgay İsbir</i>		
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>			ELECTIVE WEEK V	Independent Learning	Lecture Biology of Oxidative Stress <i>Turgay İsbir</i>	
15.00- 15.50							Lecture Measures of Central Tendencies <i>E.Çiğdem Altunok</i>	
16.00- 16.50	Lecture Nerves of the Upper Limb <i>Erdem Söztutar</i>	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>			Independent Learning	ELECTIVE WEEK V	Lecture Frequency Distributions <i>E.Çiğdem Altunok</i>	
17.00-17.50	Lecture Vasculature of the Upper Limb <i>Erdem Söztutar</i>					Independent Learning		

COMMITTEE IV - TISSUE II
V. WEEK / 19 Mar– 23 Mar 2018

	Monday 19-Mar-2018	Tuesday 20-Mar-2018	Wednesday 21-Mar-2018	Thursday 22-Mar-2018	Friday 23-Mar-2018
09.00- 09.50	Independent Learning	Lecture Histology of Nervous Tissue: Glia Types <i>Aylin Yaba Uçar</i>	Lecture Nucleotides <i>Inci Özden</i>	Lecture Enzymes, Kinetics,Regulatory Enzymes <i>Inci Özden</i>	Laboratory / Med. Biology Oxidative Stress and Antioxidant System <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>
10.00- 10.50		Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach <i>Özlem Tanrıöver & Arzu Akalın</i>	Lecture Nucleotides <i>Inci Özden</i>	Lecture Enzymes, Kinetics,Regulatory Enzymes <i>Inci Özden</i>	Group A Group B Independent Independent Learning Learning
11.00- 11.50	Laboratory / Anatomy Brachial Plexus, Nerves, and Vasculature of The Upper Limb <i>Erdem Söztutar</i>	Group A Sci. Project Small Group Studies Group B and C Independent Learning Group D	Lecture Measures of Central Tendencies <i>E.Çiğdem Altunok</i>	Behavioral Science / Lecture Psychoanalytic Theory and Defense Mechanism <i>Instructors</i>	Group A Independent Learning Group B Group C Independent Learning
12.00- 12.50	Group A Independent Learning Group B		Lecture Measures of Central Tendencies <i>E.Çiğdem Altunok</i>	Behavioral Science / Lecture Psychoanalytic Theory and Defense Mechanism <i>Instructors</i>	
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Muscles of The Pelvic Girdle (Gluteal Region) <i>Erdem SÖZTUTAR</i>	ELECTIVE WEEK VI	Independent Learning
15.00- 15.50			Lecture Muscles of The Pelvic Girdle <i>Erdem SÖZTUTAR</i>		Group A Independent Learning Group B Independent Learning Group C
16.00- 16.50	Lecture Muscles of the Thigh <i>Erdem SÖZTUTAR</i>	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Laboratory / Anatomy Muscles of the Pelvic Girdle <i>Erdem Söztutar</i>	Independent Learning	ELECTIVE WEEK VI
17.00-17.50	Lecture Muscles of the Thigh <i>Erdem SÖZTUTAR</i>		Group A Independent Learning Group B Independent Learning		Lecture Measures of Central Dispersion <i>E.Çiğdem Altunok</i>

COMMITTEE IV - TISSUE II
VI. WEEK / 26 – 30 Apr 2018

	Monday 26-Mar-2018	Tuesday 27-Mar-2018	Wednesday 28-Mar-2018	Thursday 29-Mar-2018	Friday 30-Mar-2018			
09.00- 09.50	Laboratory / Histology Review Sesion <i>Alev Cumbul & Aylin Yaba Uçar</i> Group A and Group B	Independent Learning	Independent Learning	Lecture Innate Immunity <i>Gülderen Yanıkkaya Demirel</i>	Lecture Rates and Ratios <i>E.Çiğdem Altunok</i>			
10.00- 10.50		Clinical Skills Learning ICP I Patient-Doctor Communication Skills Using SPs <i>Güldal İzbirak & Arzu Akalın</i>	Lecture International Enzyme Commission Classification of Enzymes <i>Inci Özden</i>	Lecture Innate Immunity <i>Gülderen Yanıkkaya Demirel</i>	Lecture Standardization of Disease Rates <i>E.Çiğdem Altunok</i>			
11.00- 11.50	Laboratory / Anatomy Muscles of the Thigh <i>Erdem Söztutar</i> Group A	Group A Group C Sci. Project Small Group Studies Group B and D Independent Learning	Lecture International Enzyme Commission Classification of Enzymes <i>Inci Özden</i>	Behavioral Science / Lecture Learning Theory <i>Instructors</i>	Lecture Muscles of the Leg <i>Erdem SÖZTUTAR</i>			
12.00- 12.50	Group B Independent Learning		Lunch Break	Behavioral Science / Lecture Perception <i>Instructors</i>	Lecture Muscles of the Leg <i>Erdem SÖZTUTAR</i>			
13.00- 13.50	Lunch Break	Lunch Break	Biochemistry/ Lecture Spectrophotometry <i>Jale Çoban & Müge Kopuz</i>	Lunch Break	Lunch Break			
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Laboratory / Biochemistry Spectrophotometry <i>Jale Çoban & Müge Kopuz</i>	ELECTIVE WEEK VII	Independent Learning	Laboratory / Biochemistry Spectrophotometry <i>Jale Çoban & Müge Kopuz</i>		
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 <i>Davut Ekşi</i>	Group A	Independent Learning	ELECTIVE WEEK VII	Group A Independent Learning	Group B Independent Learning	Group C
17.00-17.50			Independent Learning			Independent Learning	Independent Learning	

COMMITTEE IV - TISSUE II
VII. WEEK / 02 – 06 Apr 2018

	Monday 02-Apr-2018	Tuesday 03-Apr-2018	Wednesday 04-Apr-2018	Thursday 05-Apr-2018	Friday 06-Apr-2018	
09.00- 09.50	Independent Learning	Independent Learning	Lecture Adaptive Immunity <i>Gülderen Yanıkkaya Demirel</i>	Independent Learning	Independent Learning	
10.00- 10.50	Laboratory / Anatomy Muscles of the Leg <i>Erdem Söztutar</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills Using SPs <i>Güldal İzbirak & Arzu Akalın</i>	Lecture Adaptive Immunity <i>Gülderen Yanıkkaya Demirel</i>	Lecture Oxidative Decarboxylation <i>İnci Özden</i>		
	Group A Independent Learning	Group B				
11.00- 11.50	Group A	Group B Independent Learning	Lecture ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation <i>İnci Özden</i>	Behavioral Science / Lecture Perception <i>Instructors</i>		
12.00- 12.50	Independent Learning	Group C and D Independent Learning	Lecture ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation <i>İnci Özden</i>	Behavioral Science / Lecture Emotion <i>Instructors</i>		
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break		
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Discussion (Large Group) Overview <i>Erdem Söztutar</i>	ELECTIVE WEEK VIII		Independent Learning
15.00- 15.50			Discussion (Large Group) Overview <i>Erdem Söztutar</i>			
16.00- 16.50	Lecture Muscles of the Foot <i>Erdem SÖZTUTAR</i>	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Laboratory / Anatomy Muscles of the Foot <i>Erdem Söztutar</i>	Independent Learning		ELECTIVE WEEK VIII
17.00-17.50	Lecture Muscles of the Foot <i>Erdem SÖZTUTAR</i>		Group A and Group B			

COMMITTEE IV - TISSUE II

VIII. WEEK / 09 – 13 Apr 2018

	Monday 09-Apr-2018	Tuesday 10-Apr-2018	Wednesday 11-Apr-2018	Thursday 12-Apr-2018	Friday 13-Apr-2018	
09.00- 09.50	Assessment Session Histology (Practical Exam)	Independent Learning	Assessment Session Medical Biology (Practical Exam)	Independent Learning	Independent Learning	
10.00- 10.50						
11.00- 11.50	Assessment Session Biostatistics (Writing Exam-MEQ)		Assessment Session Anatomy (Practical Exam)		Assessment Session Committee IV (MCQ)	
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 <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Independent Learning	ELECTIVE WEEK IX		Independent Learning
15.00- 15.50						
16.00- 16.50	Independent Learning	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>		Independent Learning	ELECTIVE WEEK IX	Independent Learning
17.00-17.50						

COMMITTEE V - ENERGY AND METABOLISM**DISTRIBUTION of LECTURE HOURS****April 16, 2018 - May 25, 2018****COMMITTEE DURATION: 6 WEEKS**

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	PBL	TOTAL
	DISCIPLINE	78	13	6	97
	ANATOMY	14	2Grx6H		20
	BEHAVIORAL SCIENCES	10	0		10
	BIOCHEMISTRY	22	3Grx2H		24
	BIOSTATISTICS	12	3Grx2H		14
	HISTOLOGY and EMBRYOLOGY	9	2Grx3H		12
	MEDICAL BIOLOGY	7	0		7
	IMMUNOLOGY	4	0		4

MED 103	ANATOMICAL DRAWING	0	6		6
HTR 301-302	ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	6	0		6
TKL 201-202	TURKISH LANGUAGE & LITERATURE	6	0		6
	ELECTIVE COURSE	10	0		10

	TOTAL	100	19	6	125
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Coordination Committee	Head	Erdem Söztutar, Assist. Prof.
	Secretary	Oya ALAGÖZ, Assist. Prof.
	Member	Alev CUMBUL, Assist. Prof.
	Member	E. Çiğdem ALTUNOK, Assist. Prof.

**COMMITTEE V - ENERGY AND METABOLISM
LECTURERS**

BASIC MEDICAL SCIENCES I	
DISCIPLINE	FACULTY
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof
BEHAVIORAL SCIENCES	
BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof.
BIOSTATISTICS	E. Çiğdem ALTUNOK, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Alev CUMBUL, PhD, Assist. Prof.
	Aylin Yaba UÇAR, PhD, Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, Assoc. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Soner DOĞAN, PhD, Assoc. Prof.
	Deniz KIRAÇ, PhD, Assist. Prof.

INTRODUCTION TO CLINICAL PRACTICE I (ICP-I)	Güldal İZBIRAK, 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 SELİMHOCANOĞLU, 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, immunology, 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 neurulation
- 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. define the basics of immune response
- 19.0. 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	18	7	7	32
	Dr. Y.Aydar				
3.0, 4.0	Behavioral Science	13	4	4	21
5.0 - 8.0	Dr. İ. Özden	28	10	10	48
9.0, 11.0	Dr. Ç. Altunok	-	6	6	12
12.0 - 16.0	Dr. A. Cumbul	11	4	4	19
12.0 - 16.0	Dr. A. Yaba Uçar				
17.0	Dr. T. İsbir	9	3	3	15
18.0	Dr. G. Yarıkkaya Demirel	5	2	2	9
19.0	PBL Scenario	1			1
	TOTAL	85	36/200[#]	36/200[#]	157

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of MEQ*POINTS	
		CE	
12.0,13.0	BIOSTATISTICS	15	
	TOTAL	15	

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS	
		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 value of LPE is equal to 100 points

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

[#]In FE and ICE, 37 out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:

MCQ: Multiple Choice Question

MEQ: Modified Essay Questions * Biostatistics exam will be given separately before the committee exam date.

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 / 16 – 20 Apr 2018

	Monday 16-Apr-2018	Tuesday 17-Apr-2018	Wednesday 18-Apr-2018	Thursday 19-Apr-2018	Friday 20-Apr-2018	
09.00- 09.50	PBL Session	Introductory Session Introduction to Committee V <i>Secretary of Committee V</i>	Lecture Somitogenesis; Mesoderm Organization <i>Alev Cumbul</i>	Lecture Digestion and Absorption of Carbohydrates <i>Inci Özden</i>	PBL Session	
10.00- 10.50		Lecture Genome of Mitochondria <i>Turgay İsbir</i>	Lecture Neurulation; Neuroectoderm Organization <i>Alev Cumbul</i>	Lecture Digestion and Absorption of Carbohydrates <i>Inci Özden</i>		
11.00- 11.50		Lecture Transport Through Biological Membranes <i>Inci Özden</i>	Lecture Transport Through Biological Membranes <i>Inci Özden</i>	Behavioral Science / Lecture Culture and Illness <i>Instructors</i>		
12.00- 12.50	Independent Learning	Lecture Transport Through Biological Membranes <i>Inci Özden</i>	Lecture Transport Through Biological Membranes <i>Inci Özden</i>	Behavioral Science / Lecture Culture and Illness <i>Instructors</i>	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 <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Independent Learning	ELECTIVE WEEK X	Independent Learning	Lecture Theoretical Distributions <i>E.Çiğdem Altunok</i>
15.00- 15.50						Lecture Theoretical Distributions <i>E.Çiğdem Altunok</i>
16.00- 16.50	Lecture Cervical Muscles and Triangles <i>Erdem Söztutar</i>	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>		Independent Learning	Independent Learning	ELECTIVE WEEK X
17.00-17.50	Lecture Cervical Muscles and Triangles <i>Erdem Söztutar</i>		Group A Group B Independent Learning Group C Independent Learning			

COMMITTEE V - ENERGY AND METABOLISM
II. WEEK / 23-27 April 2018

	Monday 23-Apr-2018	Tuesday 24-Apr-2018	Wednesday 25-Apr-2018	Thursday 26-Apr-2018	Friday 27-Apr-2018					
09.00- 09.50	National Holiday	Independent Learning	Lecture Muscles of the Head and Scalp <i>Erdem Söztutar</i>	Lecture Folding and Angiogenesis <i>Alev Cumbul</i>	Lecture Genome of Mithochondria <i>Turgay İsbir</i>					
10.00- 10.50		Clinical Skills Learning ICP I Patient-Doctor Communication Skills Using SPs <i>Güldal İzbirak & Arzu Akalın</i>	Lecture Muscles of the Head and Scalp <i>Erdem Söztutar</i>	Lecture Organogenesis & Fetal Periods <i>Aylin Yaba Uçar</i>	Lecture Genome of Mithochondria <i>Turgay İsbir</i>					
11.00- 11.50		Group A and B Independent Learning	Group C	Group D Sci. Project Small Group Studies	Lecture Glycogenesis <i>İnci Özden</i>	Behavioral Science / Lecture Human Sexuality <i>Instructors</i>	Lecture Probability <i>E.Çiğdem Altunok</i>			
12.00- 12.50		Group A and B Independent Learning	Group C	Group D Sci. Project Small Group Studies	Lecture Glycogenesis <i>İnci Özden</i>	Behavioral Science / Lecture Violence and Abuse <i>Instructors</i>	Lecture Probability <i>E.Çiğdem Altunok</i>			
13.00- 13.50		Group A and B Independent Learning	Group C	Group D Sci. Project Small Group Studies	Lecture Glycogenesis <i>İnci Özden</i>	Behavioral Science / Lecture Violence and Abuse <i>Instructors</i>	Lecture Probability <i>E.Çiğdem Altunok</i>			
14.00- 14.50		Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>			Laboratory / Anatomy Cervical Muscles and Triangles <i>Erdem Söztutar</i>	Laboratory / Anatomy Cervical Plexus, Nerves and Vasculature Of The Neck <i>Erdem Söztutar</i>	Lecture Glycogenolysis <i>İnci Özden</i>			
15.00- 15.50		Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>			Group A Independent Learning	Group B	Group A	Group B Independent Learning	Lecture Glycogenolysis <i>İnci Özden</i>	
16.00- 16.50		Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>			Lecture Cervical Plexus <i>Erdem Söztutar</i>	Group A Independent Learning	Group B	Laboratory / Biostatistics Basic Statistical Calculations on Excel <i>E.Çiğdem Altunok</i>		
17.00-17.50		Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>			Lecture Nerves and Vasculature of the Neck <i>Erdem Söztutar</i>	Independent Learning		Group A Independent Learning	Group B	Group C Independent Learning

COMMITTEE V - ENERGY AND METABOLISM
III. WEEK / 30 Apr – 04 May 2018

	Monday 30-Apr-2018	Tuesday 01-May-2018	Wednesday 02-May-2018	Thursday 03-May-2018	Friday 04-May-2018	
09.00- 09.50	Independent Learning	Labor's Day	Lecture Twins and Partrution <i>Aylin Yaba Uçar</i>	Lecture Glicolysis <i>Inci Özden</i>	Independent Learning	
10.00- 10.50			Lecture Regulation of Glycogenesis and Glycogenolysis <i>Inci Özden</i>	Lecture Glicolysis <i>Inci Özden</i>	Lecture Theoretical Distributions <i>E. Çiğdem Altunok</i>	
11.00- 11.50			Lecture Regulation of Glycogenesis and Glycogenolysis <i>Inci Özden</i>	Behavioral Science / Lecture The Physician-Patient Relationship <i>Instructors</i>	Lecture Theoretical Distributions <i>E. Çiğdem Altunok</i>	
12.00- 12.50	Lunch Break		Lunch Break	Behavioral Science / Lecture The Physician-Patient Relationship <i>Instructors</i>	Lunch Break	
13.00- 13.50	Lecture Extraembryoner Structures: Placenta, Chorion, Amnion <i>Aylin Yaba Uçar</i>		Laboratory / Anatomy Muscles of the Head and Scalp <i>Erdem Söztutar</i>	Lunch Break	Laboratory / Anatomy Nerves And Vasculature of the Head <i>Erdem Söztutar</i>	
	14.00- 14.50		Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>		Group A Independent Learning	Group B
Group A				Group B Independent Learning	ELECTIVE WEEK XI	Independent Learning
15.00- 15.50	Lecture Nerves of the Head <i>Erdem Söztutar</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills Using SPs <i>Güldal İzbırak & Arzu Akalın</i>	ELECTIVE WEEK XI	Independent Learning		
16.00- 16.50					Group A Sci. Project Small Group Studies	Group B and C Independent Learning
17.00-17.50	Lecture Vasculature of The Head <i>Erdem Söztutar</i>			Independent Learning	ELECTIVE WEEK XI	Independent Learning

COMMITTEE V - ENERGY AND METABOLISM
IV. WEEK / 07 – 11 May 2017

	Monday 07-May-2018	Tuesday 08-May-2018	Wednesday 09-May-2018	Thursday 10-May-2018	Friday 11-May-2018
09.00- 09.50	Laboratory / Histology Developing Human <i>Alev Cumbul & Aysin Yaba Uçar</i>	Lecture Diagnostic Testing <i>E.Çiğdem Altunok</i>	Independent Learning	Lecture Cytokines and Immune Markers <i>Gülderen Yanıkkaya Demirel</i>	Lecture The Description of Epidemiology <i>E.Çiğdem Altunok</i>
10.00- 10.50	Group A	Lecture Diagnostic Testing <i>E.Çiğdem Altunok</i>	Lecture Antigen-Antibody Reactions <i>Gülderen Yanıkkaya Demirel</i>	Lecture Signal Transduction in Immunity <i>Gülderen Yanıkkaya Demirel</i>	Lecture Sampling in Epidemiology <i>E.Çiğdem Altunok</i>
11.00- 11.50	Group A Independent Learning	Lecture Pentose Phosphate Pathway <i>İnci Özden</i>	Lecture Antigen-Antibody Reactions <i>Gülderen Yanıkkaya Demirel</i>	Behavioral Science/Lecture Legal and Ethical Issues in Medicine <i>Instructors</i>	Lecture Secondary Hemostasis, Procoagulation, Anticoagulation <i>İnci Özden</i>
12.00- 12.50	Group B	Lecture Pentose Phosphate Pathway <i>İnci Özden</i>	Lecture Muscles of the Thoracic Wall <i>Erdem Söztutar</i>	Behavioral Science/Lecture Legal and Ethical Issues in Medicine <i>Instructors</i>	Lecture Secondary Hemostasis, Procoagulation, Anticoagulation <i>İnci Özden</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Bedri Selimhocaoğlu</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Biology of Life Span <i>Turgay İsbir</i>	ELECTIVE WEEK XII	Independent Learning
15.00- 15.50			Lecture Biology of Life Span <i>Turgay İsbir</i>		Independent Learning
16.00- 16.50	Independent Learning	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Davut Ekşi</i>	Independent Learning	Independent Learning	ELECTIVE WEEK XII
17.00-17.50					

COMMITTEE V - ENERGY AND METABOLISM
V. WEEK / 14 – 18 May 2018

	Monday 14-May-2018	Tuesday 15-May-2018	Wednesday 16-May-2018	Thursday 17-May-2018	Friday 18-May-2018
09.00- 09.50	Laboratory / Histology Review Sesion <i>Alev Cumbul & Aylin Yaba Uçar</i> Group A Group B Independent Learning	Lecture Muscles of the Abdominal Wall <i>Erdem SÖZTUTAR</i>	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50	Group A Independent Learning Group B	Lecture Muscles of the Abdominal Wall and Inguinal Canal <i>Erdem SÖZTUTAR</i>	Lecture Gluconeogenesis <i>Inci Özden</i>	Independent Learning	Laboratory / Biochemistry Glucose Determination in Blood, Occult Blood in Feces, Bleeding Time <i>Jale Çoban & Müge Kopuz</i>
11.00- 11.50	Independent Learning	Lecture Asissted Reproductive Technology; Methods <i>Alev Cumbul</i>	Lecture Gluconeogenesis <i>Inci Özden</i>		Group A Group B Independent Learning Group C Independent Learning
12.00- 12.50	Independent Learning	Independent Learning	Lunch Break	Behavioral Science / Lecture Introduction to Psychopathology <i>Instructors</i>	Lunch Break
13.00- 13.50	Lunch Break	Lunch Break	Lecture Congenital Anomalies and Teratology <i>Alev Cumbul</i>	Lunch Break	Laboratory / Biochemistry Glucose Determination in Blood, Occult Blood In Feces, Bleeding Time <i>Jale Çoban & Müge Kopuz</i>
14.00- 14.50	Lecture Infertility and Contraception <i>Aylin Yaba Uçar</i>	Lecture Fibrinolysis, Fibrinolytic and Antifibrinolytic Agents <i>Inci Özden</i>	Lecture Epidemiological Research Methods and Calculation of The Risk <i>E.Çiğdem Altunok</i>	ELECTIVE WEEK XIII	Group A Independent Learning Group B Group C Independent Learning
15.00- 15.50	Lecture Epidemiological Research Methods <i>E.Çiğdem Altunok</i>	Lecture Fibrinolysis, Fibrinolytic and Antifibrinolytic Agents <i>Inci Özden</i>	Lecture Nerves and Vasculature of The Thoracic Wall <i>Erdem Söztutar</i>		Independent Learning
16.00- 16.50	Laboratory / Biostatistics Basic Statistical Calculations in Excel <i>E.Çiğdem Altunok</i>	Laboratory / Anatomy Muscles of the Thoracic and Abdominal Wall <i>Erdem Söztutar</i> Group A Group B Independent Learning	Laboratory / Anatomy Nerves and Vasculature of The Thoracic Wall <i>Erdem Söztutar</i> Group A Group B Independent Learning	Independent Learning	ELECTIVE WEEK XIII
17.00-17.50	Group A Independent Learning Group B Independent Learning Group C	Group A Independent Learning Group B	Group A Group B Independent Learning	Independent Learning	Independent Learning

**COMMITTEE V - ENERGY AND METABOLISM
VI. WEEK / 21-25 May 2018**

	Monday 21-May-2018	Tuesday 22-May-2018	Wednesday 23-May-2018	Thursday 24-May-2018	Friday 25-May-2018	
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning	
10.00- 10.50	Discussions (Large Group) Overview <i>Erdem Söztutar</i>	Assessment Session Anatomy (Practical Exam)				
11.00- 11.50	Discussions (Large Group) Overview <i>Erdem Söztutar</i>					
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)	Assessment Session Histology (Practical Exam)	ELECTIVE WEEK XIV	Independent Learning	Assessment Session Committee V (MCQ)
15.00- 15.50						
16.00- 16.50		Independent Learning	Independent Learning	Independent Learning	ELECTIVE WEEK XIV	Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee V Program <i>Head of Committee</i>
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 II

STUDENT				COUNSELOR
	STUDENT NO	NAME	SURNAME	NAME
1	20170800110	SEYYED SHAHAB	ABOUTALEBI	PROF. DR. TURGAY İSBİR
2	20160800073	MEHMET DORUK	ACET	PROF. DR. TURGAY İSBİR
3	20170800086	İREM	AÇIKALIN	PROF. DR. TURGAY İSBİR
4	20170800119	KARDELEN	AKGÜN	PROF. DR. TURGAY İSBİR
5	20170800017	SHIRIN	ALANSARI	PROF. DR. TURGAY İSBİR
6	20170800073	BARTU	ALKIŞER	PROF. DR. TURGAY İSBİR
7	20170800092	DORUK	ARSLAN	PROF. DR. ECE GENÇ
8	20160800061	ELA	ASLANSOY	PROF. DR. ECE GENÇ
9	20160800046	İREM	AYDIN	PROF. DR. ECE GENÇ
10	20170800046	ALİ YAĞIZ	AYLA	PROF. DR. ECE GENÇ
11	20160800060	NİL BAŞAK	BAŞAK	PROF. DR. ECE GENÇ
12	20170800038	DURU	BAYKAL	PROF. DR. ECE GENÇ
13	20160800051	ANİSA	BEYAN	PROF. DR. ECE GENÇ
14	20160800086	BATUHAN	BİLGİN	PROF. DR. EROL SEZER
15	20170800001	CANDAN	BİRDAL	PROF. DR. EROL SEZER
16	20160800052	ÖZLEM	BURÇ	PROF. DR. EROL SEZER
18	20170800005	ÇAĞLA ZEHRA	BÜYÜKKOÇ	PROF. DR. EROL SEZER
19	20170800103	SUMEYYE	CAM	PROF. DR. EROL SEZER
20	20170800032	CEREN	CANŞE	PROF. DR. EROL SEZER
21	20170800107	ENİS	CEVRİOĞLU	PROF. DR. EROL SEZER
22	20170800002	SEDA	CEYLAN	PROF. DR. EROL SEZER
23	20160800055	ZEYNEP SERRA	COŞKUN	PROF. DR. EROL SEZER
24	20160800074	AYHAN	ÇELİKAYAK	PROF. DR. EROL SEZER
25	20170800048	İLAYDA TUANA	ÇETİN	PROF. DR. İNCİ ÖZDEN
26	20170800047	ZEYNEP	DAL	PROF. DR. İNCİ ÖZDEN
27	20170800054	ZEKERİYA ALP	DEMİRSOY	PROF. DR. İNCİ ÖZDEN
28	20160800039	GÖNÜL BERFİN	DENİZ	PROF. DR. İNCİ ÖZDEN
29	20170800025	KAĞAN	DİLEK	PROF. DR. İNCİ ÖZDEN
30	20170800058	SEÇİL NUR	DİNÇER	PROF. DR. İNCİ ÖZDEN
31	20170800096	ROZERİN EZGİ	DUMAN	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
32	20170800035	MERT	EGE	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
33	20170800037	GÜLİNA	EKMEN	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
34	20170800039	EBRAR CEMRE	ELMALI	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
35	20170800036	CEYDA	ERALP	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
36	20160800081	HAZAL	ERDEM	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
37	20170800087	ÇAĞLA	EREK	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
38	20170800060	ORHAN SELİM	ERGİN	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
39	20170800009	GÖZDE	ERĞUT	DOÇ. DR. ÇAĞATAY ACUNER
40	20170800055	BAŞAK SİLA	ERYİĞİT	DOÇ. DR. ÇAĞATAY ACUNER
41	20170800026	DEREN	ESENCAN	DOÇ. DR. ÇAĞATAY ACUNER
42	20170800006	DAVID SINAN	ESENSOY	DOÇ. DR. ÇAĞATAY ACUNER

43	20170800057	ECE	EZELSOY	DOÇ. DR. ÇAĞATAY ACUNER
44	20170800028	BEGÜM	EZELSOY	DOÇ. DR. ÇAĞATAY ACUNER
45	20170800010	ALİ	FARUK	DOÇ. DR. ÇAĞATAY ACUNER
46	20170800030	EGE	FIRILOĞLU	DOÇ. DR. ÇAĞATAY ACUNER
47	20160800077	MELTEM	GEZERTAŞAR	DOÇ. DR. ÇAĞATAY ACUNER
48	20170800065	BURAK	GÖNÜLLÜ	DOÇ. DR. ÇAĞATAY ACUNER
49	20170800016	FIONA BERİL	GUNDERSON	DOÇ. DR. SONER DOĞAN
50	20170800071	IŞIL	GÜLSEREN	DOÇ. DR. SONER DOĞAN
51	20170800085	SEZİ CEREN	GÜNAY	DOÇ. DR. SONER DOĞAN
52	20160800043	İREM	GÜNER	DOÇ. DR. SONER DOĞAN
53	20160800036	MERT	GÜNEŞ	DOÇ. DR. SONER DOĞAN
54	20170800102	ÖYKÜ	GÜVEN	DOÇ. DR. SONER DOĞAN
55	20170800053	AHMET BERK	GÜZELCE	DOÇ. DR. SONER DOĞAN
56	20170800012	EDA	HASBAY	DOÇ. DR. ÖZLEM TANRIÖVER
57	20170800013	ELİZ	HASBAY	DOÇ. DR. ÖZLEM TANRIÖVER
58	20160800083	CEYHUN	HAZIROĞLU	DOÇ. DR. ÖZLEM TANRIÖVER
59	20170800059	SELİN	İSMAİLOĞLU	DOÇ. DR. ÖZLEM TANRIÖVER
60	20170800095	UMUT	KARAÇAM	DOÇ. DR. ÖZLEM TANRIÖVER
61	20170800089	DİLAN	KARAÇAM	DOÇ. DR. ÖZLEM TANRIÖVER
62	20160800038	TUNAHAN	KARAÇOBAN	YRD. DOÇ. DR. ÇİĞDEM ALTUNOK
63	20170800080	EKİN	KARAGÖLENT	DOÇ. DR. MEHTAP KAÇAR
64	20170800029	CEREN	KARCEBAŞ	DOÇ. DR. ÖZLEM TANRIÖVER
65	20170800061	MAİDE	KARGILI	DOÇ. DR. MEHTAP KAÇAR
66	20170800069	BEGÜM	KAŞ	YRD. DOÇ. DR. ARZU AKALIN
67	20170800019	ALP	KAVAKLIOĞLU	DOÇ. DR. MEHTAP KAÇAR
68	20160800078	CEREN NAZ	KAVLAK	DOÇ. DR. MEHTAP KAÇAR
69	20170800067	HELİN	KAYA	DOÇ. DR. MEHTAP KAÇAR
70	20160800022	SERAY	KAYMAKCI	DOÇ. DR. MEHTAP KAÇAR
71	20170800011	AMAL	KERDJADJ	DOÇ. DR. MEHTAP KAÇAR
72	20170800063	SARP	KOCA	YRD. DOÇ. DR. DENİZ KIRAÇ
73	20170800068	NAZLI	KOC AOĞLU	YRD. DOÇ. DR. DENİZ KIRAÇ
74	20160800089	EYLÜL	KOÇ	YRD. DOÇ. DR. DENİZ KIRAÇ
75	20160800072	METE	KORKMAZ	YRD. DOÇ. DR. DENİZ KIRAÇ
76	20170800070	ZEYNEP	KÖFTECİ	YRD. DOÇ. DR. DENİZ KIRAÇ
77	20170800084	DENİZ	KÖSE	YRD. DOÇ. DR. DENİZ KIRAÇ
78	20160800056	DUYGU	KURT	YRD. DOÇ. DR. ALEV CUMBUL
79	20170800083	ALİ TAN	KÜÇÜKBASMACI	YRD. DOÇ. DR. ALEV CUMBUL
80	20150800064	BÜŞRA	KÜÇÜKYILDIZ	YRD. DOÇ. DR. ALEV CUMBUL
81	20160800065	FADİME	MAN	YRD. DOÇ. DR. ALEV CUMBUL
82	20170800049	KAAN	MANDIRACI	YRD. DOÇ. DR. ALEV CUMBUL
83	20160800067	SUDE	MENEKŞE	YRD. DOÇ. DR. ALEV CUMBUL
84	20170800091	ECEM	MEŞECİ	YRD. DOÇ. DR. SERDAR ÖZDEMİR
85	20170800105	FARHİA	MOHAMED MURSAL	YRD. DOÇ. DR. SERDAR ÖZDEMİR
86	20170800074	NEDİ	MOTRO	YRD. DOÇ. DR. SERDAR ÖZDEMİR
87	20170800114	NEDA	MUMCU	YRD. DOÇ. DR. SERDAR ÖZDEMİR
88	20170800066	ECE	MUTLUAY	YRD. DOÇ. DR. SERDAR ÖZDEMİR
89	20170800004	ASENA	NUHOĞLU	YRD. DOÇ. DR. SERDAR ÖZDEMİR

90	20160800041	IŞIL	OLGUN	YRD. DOÇ. DR. SERDAR ÖZDEMİR
91	20170800100	ZEYNEP	ORDUSEVEN	YRD. DOÇ. DR. SERDAR ÖZDEMİR
92	20160800068	ONUR	ORHAN	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
93	20170800120	RAWAN	OSMAN	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
94	20160800066	CANSU	ÖLMEZ	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
95	20160800102	TALHA	ÖNER	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
96	20170800109	FULYA	ÖNÜGÖR	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
97	20170800062	TUTKU NAZ	ÖZDEMİR	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
98	20170800072	ŞEVVAL ÖZLEM	ÖZEL	YRD. DOÇ. DR. BİLGE GÜVENÇ TUNA
99	20170800051	ECE	ÖZEL	YRD. DOÇ. DR. ARZU AKALIN
100	20170800078	SELAHATTİN ALP	ÖZKÖK	YRD. DOÇ. DR. ARZU AKALIN
101	20170800043	DEMİR CAN	PATA	YRD. DOÇ. DR. ARZU AKALIN
102	20160800071	SAİT EGEMEN	PEKŞEN	YRD. DOÇ. DR. ARZU AKALIN
103	20170800050	GÖKSU	SAYGILI	YRD. DOÇ. DR. ARZU AKALIN
104	20160800047	ALP	SEÇER	YRD. DOÇ. DR. ARZU AKALIN
105	20170800081	ÇAĞLA	SELÇUK	YRD. DOÇ. DR. ARZU AKALIN
106	20160800009	MEHMET ALİ	SERDAROĞLU	DOÇ. DR. BURCU GEMİCİ BAŞOL
107	20170800041	BUKET	SERİM	DOÇ. DR. BURCU GEMİCİ BAŞOL
108	20170800040	İMGE	SEVİNÇLİ	DOÇ. DR. BURCU GEMİCİ BAŞOL
109	20170800064	ÖMER	SÖNMEZ	YRD. DOÇ. DR. ARZU AKALIN
110	20160800062	ENES TANER	SÖNMEZİŞİK	DOÇ. DR. BURCU GEMİCİ BAŞOL
111	20170800082	MELİS ECE	ŞAHİNER	DOÇ. DR. BURCU GEMİCİ BAŞOL
112	20170800022	HAYDAR	ŞENDUR	YRD. DOÇ. DR. ÇİĞDEM ALTUNOK
113	20160800085	PELİN	ŞENGÜDER	YRD. DOÇ. DR. ÇİĞDEM ALTUNOK
114	20170800044	İPEK	TANAÇAR	YRD. DOÇ. DR. ÇİĞDEM ALTUNOK
115	20160800058	YEŞİM	TÜMER	YRD. DOÇ. DR. ÇİĞDEM ALTUNOK
116	20160800003	MUSTAFA ALİHAN	TÜRK	YRD. DOÇ. DR. ÇİĞDEM ALTUNOK
117	20170800094	CEMAL	ULUSOY	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
118	20170800104	CAN DOĞU	USANMAZ	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
119	20170800108	SELİN	UYAR	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
120	20170800056	MERVE	UYSAL	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
121	20160800070	SEDAT	ÜÇAR	YRD. DOÇ. DR. HALE ARIK TAŞYIKAN
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