YEDİTEPE UNIVERSITY

FACULTY OF MEDICINE

PHASE I

ACADEMIC PROGRAM BOOK

2018 - 2019

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

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE I

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YEDİTEPE UNIVERSITY FACULTY OF MEDICINE

AIM OF MEDICAL EDUCATION PROGRAM*,**

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

AIM

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

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

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PROGRAM OUTCOMES OF MEDICAL EDUCATION *, **

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

PODG.1. Basic Professional Competencies

POD.1.1. Clinical Competencies

PO.1.1.1. ***values*** preventive health services, ***offers*** primary prevention (i.e. prevention of diseases for the protection of health), secondary prevention (i.e. early diagnosis and treatment) tertiary prevention (i.e. rehabilitation) and quaternary prevention (i.e. prevention of excessive and unnecessary diagnosis and treatment) services, ***provides*** consultancy on these issues.
PO.1.1.2. ***employs*** a patient-centered approach in patient management.
PO.1.1.3. ***recognizes*** most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.
PO.1.1.4. ***takes*** medical history from the applicant himself/herself or from the individual's companions.
PO.1.1.5. ***does*** general and focused physical and mental examination.
PO.1.1.6. ***interprets*** findings in medical history, physical and mental examination.
PO.1.1.7. ***employs*** diagnostic procedures that are used frequently at the primary health care level.
PO.1.1.8. ***selects*** tests that have evidence-based high efficacy at the primary health care level and ***interprets*** results.
PO.1.1.9. ***makes*** clinical decisions using evidence-based systematic data in health care service.
PO.1.1.10. ***performs*** medical interventional procedures that are used frequently at the primary health care level.
PO.1.1.11. ***manages*** healthy individuals and patients in the context of health care services.
PO.1.1.12. ***keeps*** medical records in health care provision and ***uses*** information systems to that aim.

POD.1.2. Competencies Related to Communication

PO.1.2.1. throughout his/her career, ***communicates*** effectively with health care beneficiaries, co-workers, accompanying persons, visitors, patient's relatives, care givers, colleagues, other individuals, organizations and institutions.
PO.1.2.2. ***collaborates*** as a team member with related organizations and institutions, with other professionals and health care workers, on issues related to health.
PO.1.2.3. ***recognizes*** the protection and privacy policy for health care beneficiaries, co-workers, accompanying persons and visitors.
PO.1.2.4. ***communicates*** with all stakeholders taking into consideration the socio-cultural diversity.

POD.1.3. Competencies Related to Leadership and Management

PO.1.3.1. ***manages*** and ***leads*** within the health care team in primary health care organization.
PO.1.3.2. ***recognizes*** the principles of health management and health sector economy, models of organization and financing of health care services.
PO.1.3.3. ***recognizes*** the resources in the health care service, the principles for cost-effective use.

POD.1.4. Competencies Related to Health Advocacy

PO.1.4.1. ***recognizes*** the health status of the individual and the community and the factors affecting the health, ***implements*** the necessary measures to prevent effects of these factors on the health.
PO.1.4.2. ***recognizes*** and ***manages*** the health determinants including conditions that prevent access to health care.

POD.1.5. Competencies Related to Research

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

POD.1.6. Competencies Related to Health Education and Counseling

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

PODG.2. Professional Values and Perspectives

POD.2.1. Competencies Related to Law and Legal Regulations

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

POD.2.2. Competencies Related to Ethical Aspects of Medicine

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

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

POD.2.3. Competencies Related to Social and Behavioral Sciences

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

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

POD.2.4. Competencies Related to Social Awareness and Participation

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

POD.2.5. Competencies Related to Professional Attitudes and Behaviors

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

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

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

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

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

PODG.3. Personal Development and Values

POD.3.1.Competencies Related to Lifelong Learning

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

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

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

POD.3.2. Competencies Related to Career Management

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

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

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

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

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

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

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

COORDINATION COMMITTEE

(TEACHING YEAR 2018–2019)

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

ICP-I COORDINATION COMMITTEE

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

COORDINATION of ELECTIVE COURSES

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

PBL COORDINATION COMMITTEE

Serdar ÖZDEMİR, MD, Ph.D, Assist. Prof. (Coordinator)
İbrahim Çağatay ACUNER, MD, Assoc. Prof. (Co-Coordinator)

DESCRIPTION AND CONTENT

Normal Physiology, Basic Sciences and Medical Terms.

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

Organic Chemistry, Biophysics, Medical Biology, Medical History and Ethics, Anatomy, Anatomical Drawing, Physiology, Histology & Embryology, Medical Biochemistry, Medical Microbiology, Immunology, Family Medicine, Medical Education, Biostatistics, Humanities, Behavioral Sciences, 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

INSTRUCTIONAL DESIGN OF PRECLINICAL YEARS

In Phase I, II and III, the formation of committees is based on a thematic structure. This structure corresponds to organizational levels of human body such that macromolecule, organelle, cell, tissue, organ systems and finally introduction to pathogenesis.

- Phase I: Normal structure and function of human body at molecular, cellular, tissue and organ level.
- Phase II: Normal structure and function of human body at system and multi-system level, and introduction to pathogenesis.
- Phase III: Physiopathological and pathological processes in human body.

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 203 Basic Medical Sciences II, MED 202 Introduction to Clinical Practice II,
- Phase III: MED 302 Introduction to Clinical Sciences, MED 303 Introduction to Clinical Practice III.

The learning objectives of the phase include learning objectives of core courses. The learning objectives of committees include learning objectives of core courses’ components for the committee.

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, II and III (ICP-I,-II,-III) (MED 102, 202, 303)

AIM OF ICP PROGRAM

The aim of Introduction to Clinical Practice Program is to equip the students with basic medical skills and attitudes, in areas such as history taking regarding to systems and in general, physical and mental examination in simulated environments in pre-clinical period and to give the students opportunity to develop skills by applying non –invasive or invasive procedures on the mannequins before encountering with real patients.

Description

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

Credit Facility:

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

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

AIM

The aim of Introduction to Clinical Practice-I is to equip first year medical students with knowledge and skills on First Aid approaches and convey basic knowledge on communication and provide them the opportunity to experience patient-doctor encounter with simulated 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.

ATTITUDE

1.0. values the importance of informed consent
2.0. pays attention to patient privacy
3.0. values the importance of not exceeding the limits of his/her own competency level.

ANATOMICAL DRAWING (MED 103)

AIM

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

LEARNING OBJECTIVES

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

KNOWLEDGE

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

SKILLS

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

ASSESSMENT PROCEDURE:

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

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 and presentations should be loaded to moodle program **before Jan 11, 2019**.

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. Articles should be loaded to moodle program **before May 3, 2019**. 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. Students are expected to conform to dates for moodle uploads, there will be no acceptance of assignments after the prescheduled dates.

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)**					

FREE ELECTIVE COURSES

Elective courses aim to add complementary educational experiences to the medical school curriculum in order to improve comprehension of biopsychosocial approach of medical students, besides offering an opportunity to extend knowledge of interest in specific domains. For further information on elective course contents, please see: http://med.yeditepe.edu.tr/ders-programlari

The following courses (2 ECTS credits each) will be offered in Spring semester. Each student has to choose one of these elective courses. The selection and enrollment procedure will be announced by the phase coordinator.

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

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

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

Code	Subject		
MED 614	**Personal Trademark Development**		
Goals	The aim of this course is to equip the students with skills in creating personal image for successful business life and with appropriate behavior in social platforms.		
Content	Business Etiquette creation techniques and personal image methodologies with case studies.		
Course Learning Outcomes	At the end of this course, the student should be able to • create personal brand for successful business life. • use behavioral codes for business etiquette.		
Assessment		**NUMBER**	**PERCENTAGE**
	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
	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	3	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		**100**

Code	Subject		
MED 615	**Innovation Management**		
Goals	The aim of this course is to convey to the students knowledge on innovative approaches for visionary life, describe the philosophy of futurism.		
Content	Strategies for futurism and applied case studies for personal innovation.		
Course Learning Outcomes	At the end of this course, the student should be able to • use futuristic strategies to create innovative approaches. • use innovative and creative thinking techniques in professional life.		
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
	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	5	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total	8	**100**

Code	Subject		
MED 616	**Medical Management and New Services Design Skills**		
Goals	The aim of this course is to develop leadership skills to manage a team and organizational skills in the case of emergency and lack of crew. Moreover, empathy skills will be developed to create better relationship with the patients, coworkers and customers.		
Content	Leadership Styles, Skills needed in Med, Strategies for New Generation Leadership, Empathy Techniques, Problem Solving with Empathy, and Conciliation with Empathy.		
Course Learning Outcomes	At the end of this course, the student should be able to • develop leadership skills to manage teams. • use empathy techniques for conciliation with their patients and co-workers.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam (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
	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	4	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		**100**

Code	Subject		
MED 617	**Personal Brand Management Skills**		
Goals	This course aimes to teach how to deal with stress under different conditions. Besides, effective production skills under stress and time constraints will be subject of the course. This course also will be very helpful for career development. The tools will be offered to students for better communication, presentation and managerial skills.		
Content	In the content of this course; stress and time management for effective production, personal goal settings, motivation and effective communication will be used. Breathing techniques, diction exercises and body language will help to improve student's personal development. Moreover, managerial skills development subjects will be held. Presentations and homework will be used as effective learning tools in this course.		
Course Learning Outcomes	At the end of this course, the student should be able to • apply stress and time management skills in their personal development and career.		
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
	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	4	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		**100**

Code	Subject		
MED 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 • 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
	Attendence (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	5	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		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 • develop intellectual wealth and cultural knowledge. • change their life styles for better perspective. • increase quality of life. • establish work-life balance.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	25
	Assignments (Homework)	1	25
	Evaluation of Group Presentations	1	5
	Final Exam	1	45
	Total		**100**

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

Code	Subject
MED 622	**Application of Economics in Health Care**
Goals	This course aims to teach the essentials of economics and its' core concepts' relevance with health-care.
Content	Tools and concepts of traditional Microeconomics Theory, health production function, cost & benefit analysis, demand for health insurance and health care markets.
Course Learning Outcomes	At the end of this course, the student should be able to • explain the applications of micro-economic theories in health related areas. • discuss the causes of market failure. • list the factors effecting the demand for health. • explain health insurance supply and demand. • analyse how health care market operates.

Assessment		**NUMBER**	**PERCENTAGE**
	Mid-terms	1	80
	Quizzes, Homeworks	5	5
	Attendance	14	15
		Total	100
	Contribution of Final Examination to Overall Grade		45
	Contribution of In-Term Studies to Overall Grade		55
		Total	100

Code	Subject
MED 623	**Visual Presentation in Medicine**
Goals	This course aims to teach to design visual aids that are to be used in medical case presentations in computerized systems with Adobe CS Photoshop and Powerpoint programs.
Content	Understanding of verbal & technological presentation methods/tools to be used in medical case presentations. Computerized design tools like Adobe CS Photoshop and PowerPoint will be taught in computer labs to participants.
Course Learning Outcomes	At the end of this course, the student should be able to • recognize and applies main design principles • design visual materials • use Adobe CS Photoshop and PowerPoint in basic level • manage the presentation program PowerPoint • perform visual designs and presents projects using these programs • criticize the images used in the media

Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	20
	Presentation	2	40
	Project	1	40
	Final EXAM		
		Total	100
	Contribution of Final Examination to Overall Grade		60
	Contribution of In-Term Studies to Overall Grade		40
		Total	100

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

Assessment

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

Code	Subject
MED 627	**Presentation of Medicine on Media**
Goals	This course aims to teach deep understanding to approaches & visual methods/tools available as community communication media in conveying medical knowledge. To analyze technical features and to develop an understanding of aesthetics behind. To develop skills in conveying messages presented via media tools.
Content	Sensual and perceptual theories of visual communication. Analysis and reading the meaning of the images presented in the media as a PR tool.
Course Learning Outcomes	At the end of this course, the student should be able to • recognize the meaning of the visual literacy as intellectual property • describe the physical features of the light and theory of vision • analyze the images with the help of sensual and perceptual theories such as Gestalt, Constructivism, Semiology and Cognitive Approach. • recognize the differences between advertising, journalism and public relations. • describe the historical and cultural stereotypes used in the media • interpret images in the media (such as typography, graphic design, infographics, photography, TV, computer, internet) in technical, historical, cultural, ethical and critical aspects.

Assessment		**NUMBER**	**PERCENTAGE**
	Midterm Exam	1	70
	Homework	1	30
		Total	100
	Contribution of Final Examination to Overall Grade		60
	Contribution of In-Term Studies to Overall Grade		40
		Total	100

Code	Subject
MED 628	**Healthy Living: The Milestones of the Life for Performance Management**
Goals	This course aims to support fitness practices & dietary habits of healthy life style for medical students. To introduce techniques for reducing stress with healthy living habits. To highlight the importance of superior physical and mental health status for a better job performance.
Content	In the content of this course; understanding physiology of the physical activities, risks and benefits of the regular physical activities, using fitness training as a treatment technique, effects of physical activities to reduce stress, the relation between dietary habits and health will have quite importance.
Course Learning Outcomes	At the end of this course, the student should be able to • explain main exercise physiology • define main fitness terms • analyze main risks and benefits of exercising • relate health and eating habits • perform main fitness training techniques • manage the basic exercises necessary for healthy life • perform physical techniques which are frequently used in stress management • explain the relationship between health and nutrition • describe the principles of healthy eating • recognize exercise as a treatment method for common diseases in the community

Assessment

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

Code	Subject
MED 629	**Music and Medicine**
Goals	This course aims to convey the past and current uses and utilities of music in medicine.
Content	The connection of music and medicine throughout the historical development of antiquity and Middle Ages up until today. The place of music in medical practice after the transformations in the Age of Enlightenment and beyond.
Course Learning Outcomes	At the end of this course, the student should be able to • explain the uses of medicine in the past and present. • describe the uses of music in clinical conditions, and before and after surgical treatment. • explain the effects of music before and after surgery • describe the types of music used in music therapy

Assessment		**NUMBER**	**PERCENTAGE**
	Midterm	1	25
	Assignments (Homework)	1	25
	Final Exam		50
		Total	100
	Contribution of Final Examination to Overall Grade		50
	Contribution of In-Term Studies to Overall Grade		50
		Total	100

Code	Subject
MED 630	**Health Law**
Goals	The aim of the course is that students obtain a legal rationale, take ethical decisions from a legal perspective, act in a respectful way to patients' rights, legal risks and responsibilities.
Content	The basic concepts of law will be introduced with a view towards health law. The legal nature of medical interventions, concepts of malpractice and complication will be explained. The fundamentals and consequences of legal and criminal liability will be emphasized and medical interventions showing ethical, and legal characteristics will be evaluated from a legal point of view.
Course Learning Outcomes	At the end of this course, the student should be able to • analyze legislature and by-laws related to health law • distinguish branches and consequences of legal responsibility • in taking decisions about patients, help them to make their own decisions in a proper way by respecting their right to self-determination and their privacy. • take ethical decisions from a perspective of patients' rights and legal responsibility • identify legal risks in the developing areas of health law

Assessment		**NUMBER**	**PERCENTAGE**
	Assignment / presentation	1	50
	Final EXAM	1	50
		Total	100
	Contribution of Final Examination to Overall Grade		50
	Contribution of In-Term Studies to Overall Grade		50
		Total	100

Code	Subject		
MED 631	**Creative Drama II**		
Goals	This course aims the development of body awareness, improvement of communication skills of students by creating an atmosphere where the students can explore the potential of their emotional intelligence.		
Content	In this class, the students will be searching for their abilities for self-representation and being visible in society and going into an active learning process by experiencing image theatre, invisible theatre, newspaper theatre and forum theatre techniques		
Course Learning Outcomes	At the end of this course, the student should be able to • build supportive relationships in group by improving personal cooperating skills. • recognize personal awareness, • explain and review the schemes of personal attitude, thought and feeling by playing games and different roles. • improve critical and creative ways of thinking skills, also improve skills for life-long learning which will be useful for professional life as well as personal life. • explore being visible and expressing oneself in front of spectators using games and storytelling techniques.		
Assessment		**NUMBER**	**PERCENTAGE**
	Midterm	1	25
	Performance evaluation	5	25
	Final EXAM		50
		Total	100
	Contribution of Final Examination to Overall Grade		50
	Contribution of In-Term Studies to Overall Grade		50
		Total	100

SPECIFIC SESSIONS / PANELS

Introductory Session

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

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

Rules of the Session:
1. The session will be held in two types, conducted by Phase Coordinator and Committee/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, II and III)
- Assessment Procedure
- Grade Point Average, Cumulative Grade Point Average (GPA, cGPA) Calculation
- Pass/Fail Conditions
- Feedback of the Previous Year and Program Improvements
- Social Programs and Facilities

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

Committee Evaluation Session

Aim of the Session:

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

Objectives of the Program Evaluation Session are to;

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

Process:

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

Rules of the Committee Evaluation Session :

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

Committee Improvement Session

Aim:

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

Objectives:

1. To share the improvements within educational program with the students and the faculty members.
2. To inform the students and the faculty members about the processes of the program improvement
3. To encourage student participation in the program improvement processes.

Rules:

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

Implementation:

Before the Session

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

During the Session

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

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

After the Session

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

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

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

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

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

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

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

The patient's problems will be listed under **"Problems**" column.
The possible causes/reasons/mechanisms of the patient's problems will be listed under "**Hypotheses**". You can suggest and write anything that comes to your mind- you will then try to find any facts or information that can support these hypotheses. Do not be shy to suggest anything. You will not be judged for those things that you suggest.
As you will not be provided with all information about the patient you will need more information (such as, the patient's fever, physical examination findings, laboratory data, etc.). You will thus ask the scribe to write down

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

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

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

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

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

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

Other benefits of PBL that you gain are to:

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

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

PBL STUDENT ASSESSMENT FORM*

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. →	

Signature of the tutor	

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

INDEPENDENT LEARNING

Description:

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

Aim:

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

Objectives:

With this instructional strategy, students will develop;

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

Rules:

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

What a student should do for learning independently?

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

7. **Reflecting:** Reflecting on what you've done can help you decide whether the activity was really effective, whether an alternative approach might be better on another occasion, whether you spent the right amount of time and whether you have achieved the target you'd set yourself.
8. **Improving:** Once you've achieved the target, the process of planning can start again. Your needs and priorities may have changed, so think about them and then set yourself to another target.

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

Reference:

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

For further reading useful resources to recommend to students:

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

ASSESSMENT PROCEDURE

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

- 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
		EQ: Essay Questions	CE	CS
		FSAQ: Fill-in-the-Blank Short Answer Questions	MUE	CS
Competency–based Assessment	OSCE: Objective Structured Clinical Examination	OSCE Checklist		ICPS
	OSPE: Objective Structured Practical Examination	OSPE Checklist		CS
	LPE: Laboratory Practical Exam	LPE Checklist		CS
Performance–based Assessment	PWPE: 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_{IBS}	MUE will be held only twice in a term. MUE consists of FSAQs. The number of FSAQs is half of the relevant exam. MUE content will be developed by the coordination committees.

Scores Information (MED 104,MED 102,MED 103, HUM 103, TKL 201, TKL 202, HTR 301, HTR 302, Elective Courses)	
CS	The committee score is based on various question types/numbers and/or assessment tools (MCQ, SbMCQ or Checklists). Please see the committee's assessment matrix table/page for the specifications. Contribution of student's performance during PBL sessions to CSs of Committee II, III, IV and V is **5%.**
CMS	= Average of CSs
ICPS	= (40% MTE_{ICP}) + (60% Final OSCE)
ADS	= (70% AID_{AD}) + (30% FE_{AD})
CCCSs	= Score information will be announced by Course Coordinator.
ECSs	= Score information is shown pages of Elective Courses in the APB.
SPS	= Score information is shown in below Scientific Projects Assessment
FES	= Final Exam Score
ICES	= Incomplete Exam Score
TS *for students, who are exempted from FE*	= 96% of CMS + 4% of SPS
TS *for students, who are not exempted from FE*	= 96% of (60% of CMS + 40% of FES or ICES) + 4% of SPS

Pass or Fail Calculations of the Courses
Basic Medical Sciences I (MED 104)
Pass; *TS* **≥ *50***
Fail; *FES* **< *50*** *(barrier point), ICES* **< *50*** *(barrier point), or/and TS* **< *50***
The student is exempted from FE, if the CMS is **≥ *75*** *and all CSs are* **≥ *50***
The FE and ICE barrier point is not applied to the students whose all CSs are **≥ *50***
Introduction to Clinical Practice I (MED 102)
Pass; *ICPS* **≥ *50***
Fail; *ICPS* **< *50***
Anatomical Drawing (MED 103)
Pass; *ADS* **≥ *50***
Fail; *ADS* **< *50***
Common Compulsary Courses (HUM 103, TKL 201, TKL 202, HTR 301, HTR 302)
Pass; *CCCSs* **≥ *50***
Fail; *CCCSs* **< *50***
Elective Courses (MED 611, MED 612, MED 613, MED 614, MED 615, MED 616, MED 617, MED 619, MED 620, MED 621, MED 622, MED 623, MED 624, MED 627, MED 628, MED 629, MED 630, MED 631)
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 loose any academic and non academic scholarships given by the Yeditepe University **for up to four years**. The appropriate sanctions are determined by the Yeditepe University administration according to egregiousness of the Policy violation.

WEEKLY COURSE SCHEDULE and LOCATIONS

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY		FRIDAY
09:00-09:50	MED 104	MED 104 (7E04)	MED 104 (7E04)	MED 104 (7E04)		MED 104 (7E04)
10:00-10:50	MED 104	MED 102** (CSL)	MED 104 (7E04)	MED 104 (7E04)		MED 104 (7E04)
11:00-11:50	MED 104	MED 102 (CSL)	MED 104 (7E04)	MED 104 (7E04)		MED 104 (7E04)
12:00-12:50	MED 104	MED 102 (CSL)	MED 104 (7E04)	MED 104 (7E04)		MED 104 (7E04)
13:00-13:50						
14:00-14:50	TKL201&202 (7E04)	MED 103 (C937)	MED 104 (7E04)	MED 104 (7E04)	Elective Course (SPRING)	MED 104 (7E04)
15:00-15:50	TKL201&202 (7E04)	MED 103 (C937)	MED 104 (7E04)	MED 104 (7E04)	Elective Course (SPRING)	MED 104 (7E04)
16:00-16:50	HTR 301 (7E04) (FALL)	Humanities HUM 103 (FALL) HTR 302 (SPRING) (7E04)	MED 104 (7E04)	Elective Course (SPRING)		MED 104 (7E04)
17:00-17:50	HTR 301 (7E04) (FALL)	HUM 103 (FALL) HTR 302 (SPRING) (7E04)	MED 104 (7E04)	Elective Course (SPRING)		MED 104 (7E04)

COURSE CODES	COURSES and LOCATIONS
MED 104	Basic Medical Sciences (7E04) or Laboratories*
MED 102	Introduction to Clinical Practice I (CSL)** or (7E04)***
MED 103	Anatomical Drawing (C 937)
TKL 201 & 202	Turkish Language & Literature (7E04)
HTR 301 & 302	Atatürk's Principles & History of Modern Turkey (7E04)
HUM 103	Humanities (İnan Kıraç Conference Hall)
MED 611-631	Elective Courses
7E04	Faculty of Fine Arts Building, 7th Floor
C 937	Faculty of Medicine Building, 5th Floor

*MED 104 Laboratories will be in Faculty of Medicine Building, skill laboratories of related departments.
** MED 102 Practical Lectures will be in Faculty of Medicine Building, Clinical Skills Laboratory (CSL) (Base Floor)
***Theoretical lectures will be in Faculty of Fine Arts Builing 7th Floor 7E04 numbered classroom.

ACADEMIC CALENDAR 2018 - 2019

MED 104 BASIC MEDICAL SCIENCES I

COMMITTEE I

INTRODUCTION TO BASIC MEDICAL SCIENCES

(7 Weeks)

Beginning of Committee	September 24 2018	Monday
End of Committee	November 9, 2018	Friday
Committee Medical Biology Practical Exam	November 5, 2018	Monday
Committee Medical Histology Practical Exam	November 5, 2018	Monday
Committee Medical Anatomy Practical Exam	November 7, 2018	Wednesday
Committee Theoretical Exam	November 9, 2018	Friday
National Holiday	**October 29, 2018**	**Monday**
Commemoration of Atatürk	**November 10, 2018**	**Saturday**

COMMITTEE II

CELL (8 Weeks)

Beginning of Committee	November 12, 2018	Monday
End of Committee	January 04, 2019	Friday
Committee Physiology Practical Exam	January 02, 2019	Wednesday
Committee Medical Biology Practical Exam	January 02, 2019	Wednesday
Committee Anatomy Practical Exam	January 02, 2019	Wednesday
Committee Theoretical Exam	January 04, 2019	Friday
New Year	**January 01, 2019**	**Tuesday**

COMMITTEE III

TISSUE I (6 Weeks)

Beginning of Committee	January 07, 2019	Monday
End of Committee	March 01, 2019	Friday
Committee Medical Histology Practical Exam	February 25, 2019	Monday
Committee Physiology Practical Exam	February 25, 2019	Monday
Committee Anatomy Practical Exam	February 26, 2019	Tuesday
Committee Theoretical Exam	March 01, 2019	Friday
MIDTERM BREAK	**January 21, 2019**	**February 3, 2019**

COMMITTEE IV

TISSUE II (8 Weeks)

Beginning of Committee	March 04, 2019	Monday
End of Committee	April 26, 2019	Friday
Committee Anatomy Practical Exam Committee	April 22, 2019	Monday
Committee Biostatistics Exam	April 22,2019	Monday
Committee Histology & Embryology Practical Exam	April 25, 2019	Thursday
Committee Medical Biology Practical Exam	April 25,2019	Thursday
Committee Theoretical Exam	April 26, 2019	Friday
White Coat Ceremony and	**March 14, 2019**	**Thursday**

Physicians' Day		
National Holiday	**April 23, 2019**	**Tuesday**
COMMITTEE V		
ENERGY and METABOLISM (6 Weeks)		
Beginning of Committee	April 29, 2019	Monday
End of Committee	June 14, 2019	Friday
Committee Biostatistics Exam	June 10, 2019	Monday
Committee Anatomy Practical Exam	June 11, 2019	Tuesday
Committee Histology& Embryology Practical Exam	June 11, 2019	Tuesday
Committee Theoretical Exam	June 14, 2019	Friday
Labor's Day	**May 1, 2019**	**Wednesday**
National Holiday	**May 19, 2019**	**Sunday**
Make-up Exam	June 17-19, 2019	Monday-Wednesday
Final Exam	July 1, 2019	Monday
Incomplete Exam	July 19, 2019	Friday
MED 102 INTRODUCTION TO CLINICAL PRACTICE I (ICP-I)		
Beginning of Course	September 25, 2018	Tuesday
End of Course	May 14, 2019	Tuesday
Midterm Exam	February 19, 2019	Tuesday
Make-up Exam	May 23, 2019	Thursday
Final Exam	May 30-31, 2019	Thursday-Friday
Incomplete Exam	June 27, 2019	Thursday
MED 103 ANATOMICAL DRAWING		
Beginning of Course	September 25, 2018	Tuesday
End of Course	May 14, 2019	Tuesday
First Midterm Exam	November 13, 2018	Tuesday
Second Midterm Exam	January 8,2019	Tuesday
Third Midterm Exam	March 5, 2019	Tuesday
Fourth Midterm Exam	April 30, 2019	Tuesday
Final Exam	May 14, 2019	Tuesday
Incomplete Exam	June 11, 2019	Tuesday
TKL 201&202 TURKISH LANGUAGE & LITERATURE	**TKL**	
Fall Final Exam	December 29, 2018	Saturday (10:00-12:00)
Spring Final Exam	May 26, 2019	Sunday (10:00-12:00)
HTR 301&302 ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	**HTR**	
Fall Final Exam	January 08, 2019	Tuesday (10:00-18:00)
Spring Final Exam	May 18, 2019	Saturday (10:00-18:00)
HUM 103 HUMANITIES	**HUM**	
Fall Final Exam	December 29,2018	Saturday (14:00-16:00)

COORDINATON COMMITTEE MEETINGS

1. Coordination Committee Meeting	October 17, 2018	Wednesday 14:00
2. Coordination Committee Meeting	January 09, 2019	Wednesday 14:00 (with student participation)
3. Coordination Committee Meeting	May 8, 2019	Wednesday 14:00 (with student participation)
4. Coordination Committee Meeting	July 17, 2019	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 13th Ed.	Anthony Mescher	Mc-Graw-Hill Companies
	EMBRYOLOGY	The Developing Human: Clinically Oriented Embryology, 10th Ed.	Keith L. Moore & T. V. N. Persaud	Saunders
6	MEDICAL BIOLOGY	Molecular Biology of the Cell	Bruce Alberts et al	Garland Science
7	MEDICAL 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 8th ed, 2016	P. R. Murray et al	Mosby
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

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

DISTRIBUTION of LECTURE HOURS

September 24, 2018 – November 09, 2018

COMMITTEE DURATION: 7 WEEKS

MED 104	BASIC MEDICAL SCIENCES I DISCIPLINE	THEO.	PRAC.	TOTAL
	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
	TOTAL	***93***	***8***	***101***

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

	TOTAL	**152**	**22**	**174**

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	**LECTURERS**
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Alev CUMBUL, PhD, Assist. Prof.
	Aylin YABA UÇAR, PhD, Assoc.Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Soner DOĞAN, PhD, Assoc. Prof.
	Deniz KIRAÇ, PhD, Assoc. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU-LUTZ, MD, Assoc. Prof.
MEDICAL MICROBIOLOGY	Çağatay ACUNER, MD, Assoc. Prof.
ORGANIC CHEMISTRY	Esra ÖNEN BAYRAM, PhD, Assoc. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
	Mehtap KAÇAR, MD, PhD, Assoc. Prof.
	Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof. Dr.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD, PhD, Assoc. 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	Instructor
HUMANITIES	Instructor
TURKISH LANGUAGE & LITERATURE	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	DICIPLINE	LECTURER / INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	ICE	TOTAL
1.0, 2.0	ANATOMY	Dr. E. Söztutar	10	4	4	18
3.0, 4.0	BIOPHYSICS	Dr. B. Güvenç Tuna	17	7	7	31
5.0, 6.0	HISTOLOGY&EMBRYOLOGY	Dr. A. Cumbul Dr. A. Yaba Uçar	7	3	3	13
7.0 – 11.0	MEDICAL BIOLOGY	Dr. T. İsbir Dr. S. Doğan	41	17	17	75
12.0, 13.0	MEDICAL HISTORY & ETHICS	Dr. E. Vatanoğlu Lutz	11	5	5	21
14.0	MEDICAL MICROBIOLOGY	Dr. Ç. Acuner	3	1	1	5
15.0, 16.0	ORGANIC CHEMISTRY	Dr. E. Önen Bayram	9	4	4	17
17.0	PHYSIOLOGY	Dr. B. Gemici 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 100 (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 / 24 – 28 Sep 2018

	Monday 24-Sep-2018	Tuesday 25-Sep-2018	Wednesday 26-Sep-2018	Thursday 27-Sep-2018	Friday 28-Sep-2018
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture** History and Scope of Microbiology *Çağatay Acuner*	**Lecture / Scientific Project I** How to Read an Article *Gülderen Yanıkkaya Demirel*	**Lecture** Introduction to Biophysics; Medicine, Science or Art *Bilge Güvenç Tuna*
10.00- 10.50	**Introductory Session** Introduction to Faculty *Dean*	**Lecture / ICP I** Introduction to the First Aid Programs *Güldal İzbırak*	**Lecture** History and Scope of Microbiology *Çağatay Acuner*	**Lecture / Scientific Project I** How to Read an Article *Gülderen Yanıkkaya Demirel*	**Lecture** Physical Measurements and Units, Unit Standards *Bilge Güvenç Tuna*
11.00- 11.50	**Introductory Session** Introduction to Committee I *Phase I Coordinator*	**Lecture / ICP I** Basic Human Body *Arzu Akalın*	**Lecture** Introduction to Medical Biology *Turgay İsbir*	**Independent Learning**	**Independent Learning**
12.00- 12.50	**Independent Learning**	**Lecture / ICP I** Scene Assessment *Arzu Akalın*	**Lecture** Origin of Life *Turgay İsbir*	**Lecture** Introduction to Histology; Basic Terminology *Alev Cumbul*	**Lecture** Cellular Organization of Life *Turgay İsbir*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Origin of Life *Turgay İsbir*	**Lecture** Microscopy (Brightfield, Fluorescent, Confocal) *Aylin Yaba Uçar*	**Lecture** Cellular Organization of Life *Turgay İsbir*
15.00- 15.50			**Lecture** Cellular Organization of Life *Turgay İsbir*	**Lecture** Electronmicroscopy *Aylin Yaba Uçar*	**Lecture** Acids & Bases *Esra Önen Bayram*
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Independent Learning**	**Independent Learning**	**Lecture** Acids & Bases *Esra Önen Bayram*
17.00-17.50					**Independent Learning**

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
II. WEEK / 01 Oct – 05 Oct 2018

	Monday 01-Oct-2018		Tuesday 02-Oct-2018	Wednesday 03-Oct-2018	Thursday 04-Oct-2018	Friday 05-Oct-2018
09.00- 09.50	**Laboratory / Histology** Microscopy *Alev Cumbul & Aylin Yaba Uçar*		**Lecture / ICP I** Legal Aspect of First Aid *Elif Vatanoğlu Lutz*	**Lecture** Alkanes & Cycloalkanes *Esra Önen Bayram*	**Independent Learning**	**Lecture** Late Antiquity: Byzantine, Arab *Elif Vatanoğlu Lutz*
10.00- 10.50	**Group A**	**Group B Independent Learning**	**Lecture / ICP I** Legal Aspect of First Aid *Elif Vatanoğlu Lutz*	**Lecture** Alkanes & Cycloalkanes *Esra Önen Bayram*		**Lecture** Medicine in Abbasid Baghdad *Elif Vatanoğlu Lutz*
11.00- 11.50	**Group A Independent Learning**	**Group B**	**Lecture / ICP I** Basic Life Support and Heimlich Maneuver *Güldal İzbırak*	**Lecture** Cellular Organization of Life *Turgay İsbir*	**Lecture** Cytoskeleton *Turgay İsbir*	**Lecture** The Time of Ibn Sina *Elif Vatanoğlu Lutz*
12.00- 12.50			**Lecture / ICP I** Basic Life Support and Heimlich Maneuver *Güldal İzbırak*	**Lecture** Cellular Organization of Life *Turgay İsbir*	**Lecture** History and Scope of Microbiology *Çağatay Acuner*	**Lecture** Seljuk and Ottoman Medicine *Elif Vatanoğlu Lutz*
13.00- 13.50	**Lunch Break**		**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Approaches to Medicine/ Medicine in Prehistoric Times *Elif Vatanoğlu Lutz*	**Lecture** Methods of Histology; Tissue Processing *Alev Cumbul*	**Lecture** Statics (Mass and Weight), Gravitation Law *Bilge Güvenç Tuna*
15.00- 15.50				**Lecture** Medicine in Early Civilisations (Mesopotamia, Egypt) *Elif Vatanoğlu Lutz*	**Lecture** Methods of Histology; Immunohistochemistry *Alev Cumbul*	**Lecture** Newton's Laws of Motion *Bilge Güvenç Tuna*
16.00- 16.50	**Lecture** **Common Compulsory Course** Ataturk's Principles & History Of Modern Turkey *Instructor*		**Common Compulsory Course** Humanities Conferences *Instructor*	**Lecture** Greek Medicine: From Mythology to Natural Philosophy *Elif Vatanoğlu Lutz*	**Lecture** Galen *Elif Vatanoğlu Lutz*	**Lecture** Cell Membrane *Soner Doğan*
17.00-17.50				**Lecture** Hippocrates to Celsus *Elif Vatanoğlu Lutz*	**Lecture** Indian and Chinese Medicine *Elif Vatanoğlu Lutz*	**Lecture** Cellular Organization of Life Biological Energy Systems Enzymes and Kinetics *Soner Doğan*

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

III. WEEK / 08 – 12 Oct 2018

	Monday 08-Oct-2018	Tuesday 09-Oct-2018	Wednesday 10-Oct -2018	Thursday 11-Oct-2018	Friday 12-Oct-2018
09.00- 09.50	**Independent Learning**	**Lecture** Center of Mass, Moment *Bilge Güvenç Tuna*	**Lecture** Alkenes *Esra Önen Bayram*	**Lecture** Cell Adhesion *Turgay İsbir*	**Independent Learning**
10.00- 10.50		**Lecture** Nature of Light, Electromagnetic Spectrum *Bilge Güvenç Tuna*	**Lecture** Alkenes *Esra Önen Bayram*	**Lecture** Cell Adhesion *Turgay İsbir*	**Lecture** Cell Membrane *Soner Doğan*
11.00- 11.50		**Lecture / ICP I** Shock and Bleeding Control *Güldal İzbırak*	**Lecture** Other Histologic Methods *Alev Cumbul*	**Lecture** Introduction to Anatomy *Erdem Söztutar*	**Lecture** Cell Membrane *Soner Doğan*
12.00- 12.50		**Lecture / ICP I** Burns, Freezing, Frostbite *Özlem Tanrıöver*	**Lecture** Cytoskeleton *Turgay İsbir*	**Lecture** Terminology in Anatomy *Erdem Söztutar*	**Lecture** Cell Signalling Events *Turgay İsbir*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Cytoskeleton *Turgay İsbir*	**Lecture** Cell Signalling Events *Turgay İsbir*	**Lecture** Cell Signalling Events *Turgay İsbir*
15.00- 15.50			**Lecture** Cytoskeleton *Turgay İsbir*	**Lecture** Cell Signalling Events *Turgay İsbir*	**Laboratory / Med. Biology** Introduction to Medical Biology *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History Of Modern Turkey *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Cell Adhesion *Turgay İsbir*	**Independent Learning**	**Group A** | **Group B** | **Group C**
17.00-17.50			**Independent Learning**		**Independent Learning**

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
IV. WEEK / 15 – 19 Oct 2018

	Monday 15-Oct-2018	Tuesday 16 Oct-2018	Wednesday 17-Oct-2018	Thursday 18-Oct-2018	Friday 19-Oct-2018
09.00- 09.50	**Independent Learning**	**Lecture / ICP I** Injuries *Arzu Akalın*	**Lecture** Reflection and Refraction of Light *Bilge Güvenç Tuna*	**Lecture** Bio-optics: Vision and Eye, Refraction errors *Bilge Güvenç Tuna*	**Lecture** Cell Cycle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) *Turgay İsbir*
10.00- 10.50		**Lecture / ICP I** Foreign Objects *Arzu Akalın*	**Lecture** Intercellular Cell Signalling *Turgay İsbir*	**Lecture** Optical Aberrations *Bilge Güvenç Tuna*	**Lecture** Cell Cycle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) *Turgay İsbir*
11.00- 11.50		**Lecture** Cell Signalling Events *Turgay İsbir*	**Lecture** Intercellular Cell Signalling *Turgay İsbir*	**Lecture** Programmed Cell Death *Turgay İsbir*	**Lecture** Bones of the Upper Limb *Erdem Söztutar*
12.00- 12.50		**Lecture** Cell Signalling Events *Turgay İsbir*	**Lecture** Intercellular Cell Signalling *Turgay İsbir*	**Lecture** Programmed Cell Death *Turgay İsbir*	**Lecture** Bones of the Upper Limb *Erdem Söztutar*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Introduction to Osteology *Erdem Söztutar*	**Lecture** Programmed Cell Death *Turgay İsbir*	**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50			**Lecture** Bones of the Soulder *Erdem Söztutar*	**Lecture** Programmed Cell Death *Turgay İsbir*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Benzene & Aromaticity *Esra Önen Bayram*	**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Turgay İsbir* *Soner Doğan & Deniz Kıraç*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
17.00-17.50			**Lecture** Benzene & Aromaticity *Esra Önen Bayram*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**	

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
V. WEEK / 22 – 26 Oct 2018

	Monday 22-Oct-2018	Tuesday 23-Oct-2018	Wednesday 24-Oct-2018	Thursday 25-Oct-2018	Friday 26-Oct-2018
09.00- 09.50	**Independent Learning**	**Lecture** Lenses; Lens-maker Equation *Bilge Güvenç Tuna*	**Lecture** Optical Properties of Microscopes *Bilge Güvenç Tuna*	**Independent Learning**	**Lecture** Cellular Homoestosis and Cell Growth *Turgay İsbir*
10.00- 10.50		**Lecture / ICP I** Fractures and Dislocation *Özlem Tanrıöver*	**Lecture** Optical Properties of Microscopes *Bilge Güvenç Tuna*	**Introductory Session** Introduction to Problem Based Learning (PBL) *PBL Coordinators*	**Lecture** Cellular Homoestosis and Cell Growth *Turgay İsbir*
11.00- 11.50	**Laboratory / Anatomy** Bones of the Shoulder and Upper Limb *Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Lecture / ICP I** The Unconscious Casualty *Güldal İzbırak*	**Lecture** Cellular Organization of Life Enzymes and Kinetics *Soner Doğan*	**Lecture** Membrane Impedance, Bioelectrical Activity *Bilge Güvenç Tuna*	**Lecture** Electric Current Effects on Human Tissue *Bilge Güvenç Tuna*
12.00- 12.50	**Group A Independent Learning** / **Group B**	**Lecture / ICP I** Poisoning *Arzu Akalın*	**Lecture** Bones of the Pelvis *Erdem Söztutar*	**Lecture** Electric Charges, Electric Field *Bilge Güvenç Tuna*	**Lecture** Electrical Security Systems *Bilge Güvenç Tuna*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Bones of the Pelvis & Lower Limb *Erdem Söztutar*	**Laboratory / Anatomy** Bones of the Pelvis & Lower Limb *Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Lecture** Introduction to Physiology and Homeostasis *Bayram Yılmaz*
15.00- 15.50			**Lecture** Bones of the Pelvis & Lower Limb *Erdem Söztutar*	**Group A** / **Group B Independent Learning**	**Lecture** Introduction to Physiology and Homeostasis *Bayram Yılmaz*
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Independent Learning**	**Independent Learning**	**Independent Learning**
17.00-17.50					

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VI. WEEK / 29 Oct – 02 Nov 2018

<table>
<tr><th></th><th>Monday
29-Oct-2018</th><th>Tuesday
30-Oct-2018</th><th>Wednesday
31-Oct-2018</th><th>Thursday
01-Nov 2018</th><th>Friday
02-Nov-2018</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="9">National Holiday</td><td>Independent Learning</td><td rowspan="2">Laboratory / Histology
Alev Cumbul & Aylin Yaba Uçar
Review Session
Group A and B</td><td rowspan="9">PROBLEM BASED LEARNING ORIENTATION DAY</td><td rowspan="9">Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td>Lecture / ICP I
Insect Bite
Özlem Tanrıöver</td></tr>
<tr><td>11.00- 11.50</td><td>Lecture / ICP I
Patient-Casualty Transportation Techniques
Özlem Tanrıöver</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>12.00- 12.50</td><td>Lecture / ICP I
Drowning
Güldal İzbırak</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="3">Independent Learning</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td></tr>
<tr><td>17.00-17.50</td></tr>
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COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VII. WEEK / 05 - 09 November 2018

<table>
<tr><th></th><th>Monday
05-Nov-2018</th><th>Tuesday
06-Nov-2018</th><th>Wednesday
07-Nov-2018</th><th>Thursday
08-Nov-2018</th><th>Friday
09-Nov-2018</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="2">Assessment Session
Medical Biology
(Practical Exam)</td><td rowspan="3">Independent Learning</td><td rowspan="2">Assessment Session
Anatomy
(Practical Exam)</td><td rowspan="3">Independent Learning</td><td>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Assessment Session
Committee I
(MCQ)</td></tr>
<tr><td>11.00- 11.50</td><td rowspan="2">Assessment Session
Histology
(Practical Exam)</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>12.00- 12.50</td><td></td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td rowspan="3">Independent Learning</td><td rowspan="3">Independent Learning</td><td rowspan="2">Program Evaluation Session
Review of the Exam Questions, Evaluation of the Committee I Program
Head of Committee</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Ataturk's Principles &
History Of Modern Turkey
Instructor</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td><td></td></tr>
</table>

COMMITTEE II - CELL

DISTRIBUTION of LECTURE HOURS

November 12, 2018 - January 04, 2019

COMMITTEE DURATION: 8 WEEKS

MED 104	BASIC MEDICAL SCIENCES I DISCIPLINE	THEO.	PRAC.	PBL	TOTAL
	ANATOMY	8	2Grx3H		11
	BIOPHYSICS	14	0		14
	HISTOLOGY and EMBRYOLOGY	14	0		14
	MEDICAL BIOLOGY	33	3Grx8H		41
	MEDICAL HISTORY & ETHICS	6	0		6
	MEDICAL MICROBIOLOGY	8	0		8
	ORGANIC CHEMISTRY	10	0		10
	PHYSIOLOGY	6	3Grx2H		8
	TOTAL	***99***	***13***	***6***	***118***

MED 103	**ANATOMICAL DRAWING**	0	14		14
MED 102	**INTRODUCTION TO CLINICAL PRACTICE-I**	0	4Grx6H		6
HTR 301	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	14	0		14
HUM 103	**HUMANITIES**	14	0		14
TKL 201	**TURKISH LANGUAGE & LITERATURE**	14	0		14

	TOTAL	**141**	**33**	**6**	**180**

Coordination Committee	Head	Deniz KIRAÇ, Assoc. 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	LECTURERS
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Alev CUMBUL, PhD, Assist. Prof.
	Aylin YABA UÇAR, PhD, Assoc. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Soner DOĞAN, PhD, Assoc. Prof.
	Deniz KIRAÇ, PhD, Assoc. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU LUTZ, MD, Assoc. Prof.
MEDICAL MICROBIOLOGY	Çağatay ACUNER, MD, Assoc. Prof.
ORGANIC CHEMISTRY	Esra ÖNEN BAYRAM, Assoc. Prof. Dr.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
	Mehtap KAÇAR, MD, PhD. Assoc. Prof.
	Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD, PhD, 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, PhD, Assist. Prof.
ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist. Prof.
ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Instructor
HUMANITIES	Instructor
TURKISH LANGUAGE & LITERATURE	Instructor

COMMITTEE II – CELL

AIM and LEARNING OBJECTIVES

AIM

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

LEARNING OBJECTIVES

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

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

COMMITTEE II – CELL

COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DICIPLINES	LECTURER / INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	ICE	TOTAL
1.0, 2.0	ANATOMY	Dr. E. Söztutar	8	4	4	16
3.0, 4.0	BIOPHYSICS	Dr. B. G. Tuna	14	6	6	26
5.0 – 11.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Cumbul Dr. A. Yaba Uçar	14	6	6	26
14.0 -18.0	MEDICAL BIOLOGY	Dr. T. Isbir Dr. D. Kıraç	33	15	15	63
19.0	MEDICAL HISTORY& ETICS	Dr. Elif Vatanoğlu Lutz	6	3	3	12
20.1, 20.2	MEDICAL MICROBIOLOGY	Dr. Ç. Acuner	8	4	4	16
21.0, 22.0	ORGANIC CHEMISTRY	Dr. E. Önen Bayram	10	5	5	20
12.0, 13.0	PHYSIOLOGY	Dr. B. Gemici Başol	6	3	3	12
23.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	**100**	**46/200#**	**46/200#**	**192**

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 100 (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 **46** 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 / 12 – 16 November 2018

	Monday 12-Nov-2018	Tuesday 13-Nov-2018	Wednesday 14-Nov-2018	Thursday 15-Nov-2018	Friday 16-Nov-2018
09.00- 09.50	**PBL Session**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Güldal İzbırak & Arzu Akalın & Serdar Özdemir*	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50			**Introductory Session** Introduction to Committee II *Secretary of Committee II*	**Lecture** Cell Organalles *Aylin Yaba Uçar*	**Lecture** Interaction of Radiation with Matter *Bilge Güvenç Tuna*
11.00- 11.50		**Group A** / **Group B Scientific Project Small Group Studies** / **Group C and D Independent Learning**	**Lecture** Alcohols and Ethers *Esra Önen Bayram*	**Lecture** Radiation Biophysics: Nucleus and Radioactivity *Bilge Güvenç Tuna*	**Lecture** Interaction of X or Gamma Rays with Matter *Bilge Güvenç Tuna*
12.00- 12.50	**Independent Learning**		**Lecture** Alcohols and Ethers *Esra Önen Bayram*	**Lecture** Nuclear stability *Bilge Güvenç Tuna*	**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 *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Cell Cycle and Mitosis-Meiosis *Deniz Kıraç*	**Independent Learning**	**Laboratory / Med. Biology** Mitosis and Meiosis *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50			**Lecture** Cell Cycle and Mitosis-Meiosis *Deniz Kıraç*		**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Independent Learning**		**Laboratory / Med. Biology** Mitosis and Meiosis *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
17.00-17.50					**Group A Independent Learning** / **Group B Independent Learning** / **Group C**

COMMITTEE II – CELL
II. WEEK / 19 – 23 Nov 2018

	Monday 19-Nov-2018	Tuesday 20-Nov-2018	Wednesday 21-Nov-2018	Thursday 22-Nov-2018	Friday 23-Nov-2018
09.00- 09.50	**PBL Session**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Güldal İzbırak & Arzu Akalın & Serdar Özdemir*	**Lecture** Deoxyribonucleic Acid and Ribonucleic Acid *Turgay İsbir*	**Lecture** Deoxyribonucleic Acid and Ribonucleic Acid (Central Dogma) *Turgay İsbir*	**Independent Learning**
10.00- 10.50			**Lecture** Deoxyribonucleic Acid and Ribonucleic Acid *Turgay İsbir*	**Lecture** Protein Synthesis and Turnover *Turgay İsbir*	**Lecture** Units of Radioactivity *Bilge Güvenç Tuna*
11.00- 11.50		**Group A** Scientific Project Small Group Studies / **Group B** / **Group C and D** Independent Learning	**Lecture** DNA and RNA (Central Dogma) *Turgay İsbir*	**Lecture** Distribution of Substances in Body Fluids *Burcu Gemici Başol*	**Lecture** Radiation Protection (Safety) *Bilge Güvenç Tuna*
12.00- 12.50	**Independent Learning**		**Independent Learning**	**Lecture** Cell Membrane *Burcu Gemici Başol*	**Lunch Break**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	Lecture Regulation of Gene Expression *Turgay İsbir*
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Cell; General Specification *Alev Cumbul*	**Lecture** Photoelectric Action, Compton Action *Bilge Güvenç Tuna*	Lecture Regulation of Gene Expression *Turgay İsbir*
15.00- 15.50			**Lecture** Cell Membrane Structure & Function *Alev Cumbul*	**Lecture** Half Value Layer, Attenuation *Bilge Güvenç Tuna*	**Laboratory / Med. Biology** Mitosis and Meiosis *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** General Structures of Bacteria *Çağatay Acuner*	**Lecture** Protein Synthesis and Turnover *Turgay İsbir*	**Group A** / **Group B** Independent Learning / **Group C** Independent Learning
17.00-17.50			**Lecture** General Structures of Bacteria *Çağatay Acuner*	**Lecture** Biosynthesis of Nucleotides *Turgay İsbir*	**Independent Learning**

COMMITTEE II – CELL
III. WEEK / 26 – 30 Nov 2018

	Monday 26-Nov-2018	Tuesday 27-Nov-2018	Wednesday 28-Nov-2018	Thursday 29-Nov-2018	Friday 30-Nov-2018
09.00- 09.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Basic Life Support and Heimlich Maneuver *Güldal İzbırak & Arzu Akalın & Serdar Özdemir*	**Lecture** The Demise of Humoral Theory *Elif Vatanoğlu Lutz*	**Lecture** Protein Synthesis and Turnover *Turgay İsbir*	**Lecture** Carbonyl Compounds *Esra Önen Bayram*
10.00- 10.50			**Lecture** Medicalisation *Elif Vatanoğlu Lutz*	**Lecture** Genomics, Proteomics and Metabolomics *Turgay İsbir*	**Lecture** Carbonyl Compounds *Esra Önen Bayram*
11.00- 11.50		**Group A and B Independent Learning** / **Group C** / **Group D Scientific Project Small Group Studiess**	**Lecture** Cells and Bacteria *Elif Vatanoğlu Lutz*	**Lecture** Vertebral column, ribs and sternum *Erdem Söztutar*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
12.00- 12.50			**Lecture** Anaesthesia, Antisepsis *Elif Vatanoğlu Lutz*	**Lecture** Vertebral column, ribs and sternum *Erdem Söztutar*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Cytoskeleton *Aylin Yaba Uçar*	**Independent Learning**	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
15.00- 15.50			**Lecture** Cell Nucleus and Cell Cycle *Aylin Yaba Uçar*	**Lecture** Genomics, Proteomics and Metabolomics *Turgay İsbir*	**Lecture** Tools in Medical Biology *Deniz Kıraç*
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Independent Learning**	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*	**Lecture** Tools in Medical Biology *Deniz Kıraç*
17.00-17.50				**Independent Learning**	**Independent Learning**

COMMITTEE II – CELL
IV. WEEK / 03 – 07 December 2018

<table>
<tr><th></th><th>Monday
03-Dec-2018</th><th>Tuesday
04-Dec-2018</th><th>Wednesday
05-Dec-2018</th><th>Thursday
06-Dec-2018</th><th>Friday
07-Dec-2018</th></tr>
<tr><td>09.00- 09.50</td><td colspan="2">Independent Learning</td><td rowspan="2">Clinical Skills Learning
ICP I
Basic Life Support and Heimlich Maneuver
Güldal İzbırak & Arzu Akalın & Serdar Özdemir</td><td>Lecture
General Structure of Viruses
Çağatay Acuner</td><td>Lecture
Neurocranium
Erdem Söztutar</td><td>Lecture
Carboxylic Acids and Nitriles
Esra Önen Bayram</td></tr>
<tr><td rowspan="2">10.00- 10.50</td><td colspan="2">Laboratory / Anatomy
Vertebral Column, Sternum and the Ribs
Erdem Söztutar</td><td rowspan="2">Lecture
General Structure of Viruses
Çağatay Acuner</td><td rowspan="2">Lecture
Neurocranium
Erdem Söztutar</td><td rowspan="2">Lecture
Carboxylic Acids and Nitriles
Esra Önen Bayram</td></tr>
<tr><td>Group A</td><td>Group B
Independent Learning</td></tr>
<tr><td>11.00- 11.50</td><td>Group A
Independent Learning</td><td>Group B</td><td rowspan="2">Group A and B Independent Learning</td><td rowspan="2">Group C
Scientific Project
Small Group Studies</td><td rowspan="2">Group D</td><td>Lecture
Tools in Medical Biology
Turgay İsbir</td><td>Lecture
Neurocranium
Erdem Söztutar</td><td>Lecture
Transport of Substances Through the Cell Membrane
Burcu Gemici Başol</td></tr>
<tr><td>12.00- 12.50</td><td colspan="2">Independent Learning</td><td>Lecture
Introduction to Embryology and Human Devopmental Period
Alev Cumbul</td><td>Independent Learning</td><td>Lecture
Transport of Substances Through the Cell Membrane
Burcu Gemici Başol</td></tr>
<tr><td>13.00- 13.50</td><td colspan="2">Lunch Break</td><td colspan="3">Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Gametogenesis; Spermatogenesis
Alev Cumbul</td><td>Lecture
Radioisotopes in Medicine
Bilge Güvenç Tuna</td><td rowspan="4">Independent Learning</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
DNA Damage and Repair Mechanism
Turgay İsbir</td><td>Lecture
Biological mechanisms of Radiation
Bilge Güvenç Tuna</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Ataturk's Principles & History of Modern Turkey
Instructor</td><td rowspan="2">Common Compulsory Course
Humanities
Instructor</td><td>Lecture
DNA Damage and Repair Mechanism
Turgay İsbir</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td><td>Independent Learning</td></tr>
</table>

COMMITTEE II – CELL

V. WEEK / 10-14 December 2018

	Monday 10-Dec-2018	Tuesday 11-Dec-2018	Wednesday 12-Dec-2018	Thursday 13-Dec-2018	Friday 14-Dec-2018
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Laboratory / Med. Biology** Nucleic Acid Purification *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
10.00- 10.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Patient-Causalty Transportation / Bandaging Techniques *Özlem Tanrıöver & Serdar Özdemir*	**Lecture** Mitosis & Meiosis *Alev Cumbul*	**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
11.00- 11.50	**Laboratory / Anatomy** Neurocranium *Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Group A** / **Group B Scientific Project Small Group Studiess** / **Group C and D Independent Learning**	**Lecture** General structure of fungi *Çağatay Acuner*	**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
12.00- 12.50	**Group A** / **Group B Independent Learning**		**Lecture** General structure of fungi *Çağatay Acuner*	**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 *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Gametogenesis; Oogenesis; Ovarian Cycle *Aylin Yaba Uçar*	**Lecture** Medical Imaging: Nuclear Medicine *Bilge Güvenç Tuna*	**Group A Indepndent Learning** / **Group B** / **Group C Indepndent Learning**
15.00- 15.50			**Lecture** Oogenesis; Follicular and Menstruel Cycle *Aylin Yaba Uçar*	**Lecture** Medical Imaging: Applications of X-ray Attenuation & Detection *Bilge Güvenç Tuna*	
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Mutation and Polymorphism *Turgay İsbir*	**Lecture** Cell and Gene Therapy *Turgay İsbir*	**Independent Learning**
17.00-17.50			**Lecture** Mutation and Polymorphism *Turgay İsbir*	**Lecture** Cell and Gene Therapy *Turgay İsbir*	

COMMITTEE II – CELL

VI. WEEK / 17 – 21 December 2018

	Monday 17-Dec-2018	Tuesday 18-Dec-2018	Wednesday 19-Dec-2018	Thursday 20-Dec-2018	Friday 21-Dec-2018
09.00- 09.50	**Independent Learning**	**Lecture** The Great Epidemics *Elif Vatanoğlu Lutz*	**Lecture** Amines *Esra Önen Bayram*	**Lecture** General Structure of Parasites *Çağatay Acuner*	**Laboratory / Med. Biology** Epigenetics (Population Genetics) *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
10.00- 10.50	**Clinical Skills Learning** **ICP I** Patient-Casualty Transportation / Bandaging Techniques *Özlem Tanrıöver &* *Serdar Özdemir*	**Lecture** Renaissance Medicine *Elif Vatanoğlu Lutz*	**Lecture** Amines *Esra Önen Bayram*	**Lecture** General Structure of Parasites *Çağatay Acuner*	**Group A** / **Group B Indep.endent Learning** / **Group C Indep.endent Learning**
11.00- 11.50	**Group A and D Independent Learning** / **Group B** / **Group C Scientific Project Small Group Studiess**	**Lecture** Lasers in Medicine *Bilge Güvenç Tuna*	**Lecture** Fertilization *Aylin Yaba Uçar*	**Lecture** Implantation *Aylin Yaba Uçar*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
12.00- 12.50		**Lecture** Lasers in Medicine *Bilge Güvenç Tuna*	**Lecture** Blastulation *Aylin Yaba Uçar*	**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 *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Independent Learning**	**Lecture** Viscocranium *Erdem Söztutar*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
15.00- 15.50			**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Lecture** Viscocranium *Erdem Söztutar*	
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Common Compulsory Course** Humanities *Instructor*	**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Lecture** Viscocranium *Erdem Söztutar*	**Independent Learning**
17.00-17.50			**Independent Learning**	**Independent Learning**	

COMMITTEE II – CELL
VII. WEEK / 24 – 28 December 2018

	Monday 24-Dec-2018	Tuesday 25-Dec-2018	Wednesday 26-Dec-2018	Thursday 27-Dec-2018	Friday 28-Dec-2018
09.00- 09.50	**Independent Learning**	**Lecture** Rise of the Hospitals *Elif Vatanoğlu Lutz*	**Lecture** Steroids *Esra Önen Bayram*	**Independent Learning**	**Laboratory / Physiology** Osmosis & Diffusion *Burcu Gemici Başol*
10.00- 10.50	**Clinical Skills Learning** **ICP I** Patient-Casualty Transportation / Bandaging Techniques *Özlem Tanrıöver & Serdar Özdemir*	**Lecture** From Mahmud II's Mekteb-i Tıbbiye to the University Reform 1933 *Elif Vatanoğlu Lutz*	**Lecture** Steroids *Esra Önen Bayram*	**Lecture** Biological Aspects of Development *Turgay İsbir*	**Group A** | **Group B Independent Learning** | **Group C Independent Learning**
11.00- 11.50	**Group A anb B Independent Learning** | **Group C** | **Group D Sci. Small Group Studiess**	**Laboratory / Anatomy** Viscocranium *Erdem Söztutar* **Group A** | **Group B Independent Learning**	**Laboratory / Med. Biology** Gene İdentification in Cancer *Turgay İsbir* *Soner Doğan & Deniz Kıraç*	**Lecture** Biological Aspects of Development *Turgay İsbir*	**Group A Independent Learning** | **Group B** | **Group C Independent Learning**
12.00- 12.50		**Group A Independent Learning** | **Group B**	**Group A Independent Learning** | **Group B** | **Group C Independent Learning**	**Lecture** Gastrulation; Primitive Streak, Notochord Formation *Alev Cumbul*	
13.00- 13.50	**Learning**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Group A Independent Learning** | **Group B Independent Learning** | **Group C**	**Lecture** Osmotic Pressure and Permeability of The Cell Membrane *Burcu Gemici Başol*	**Group A Independent Learning** | **Group B Independent Learning** | **Group C**
15.00- 15.50				**Lecture** Transport of Substances Through the Cell Membrane *Burcu Gemici Başol*	
16.00- 16.50	**Common Compulsory Course** Ataturk's Principles & Hıstory of Modern Turkey *Davut Ekşi*	**Common Compulsory Course** Humanities *Instructor*	**Group A** | **Group B Independent Learning** | **Group C Independent Learning**	**Independent Learning**	**Independent Learning**
17.00-17.50					

COMMITTEE II – CELL

VIII. WEEK / 31 December 2018 – 04 January 2019

	Monday 31-Dec-2018	Tuesday 01-Jan-2019	Wednesday 02-Jan-2019	Thursday 03-Jan-2019	Friday 04-Jan-2019
09.00- 09.50	**Independent Learning**	**NEW YEAR** **OFFICIAL HOLIDAY**	**Assessment Session** Physiology (Practical Exam)	**Independent Learning**	**Independent Learning**
10.00- 10.50					
11.00- 11.50			**Assessment Session** Medical Biology (Practical Exam)		
12.00- 12.50	**Lunch Break**		**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Independent Learning**		**Assessment Session** Anatomy (Practical Exam)	**Independent Learning**	**Assessment Session** **Committee II** (MCQ)
14.00- 14.50					
15.00- 15.50					**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Committee II Program *Head of Committee*
16.00- 16.50					
17.00-17.50					**Independent Learning**

COMMITTEE III - TISSUE I

DISTRIBUTION of LECTURE HOURS

January 7, 2019 - March 1, 2019

COMMITTEE DURATION: 6 WEEKS

MED 104	BASIC MEDICAL SCIENCES I DISCIPLINE	THEO.	PRAC.	PBL	TOTAL
	ANATOMY	18	2Grx5H		23
	BIOPHYSICS	10	0		10
	HISTOLOGY & EMBRYOLOGY	13	2Grx5H		18
	MEDICAL HISTORY & ETHICS	4	0		4
	PHYSIOLOGY	8	3Grx8H		16
	SCIENTIFIC PROJECT I	2	0		2
	IMMUNOLOGY	4			4
	TOTAL	***59***	***18***	***6***	***83***

MD 102	**INTRODUCTION TO CLINICAL PRACTICE-I**	8	1Grx3H		8
MED 103	**ANATOMICAL DRAWING**	0	8		8
HTR 302	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	8	0		8
MED 611-MED 631	**FREE ELECTIVE COURSE**	6	0		6
TKL 202	**TURKISH LANGUAGE & LITERATURE**	8	0		8

	TOTAL	**89**	**26**	**6**	**121**

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

COMMITTEE III –TISSUE I
LECTURERS

BASIC MEDICAL SCIENCES I DISCIPLINE	LECTURERS
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Assoc. Prof.
	Alev CUMBUL, PhD, Assist. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU LUTZ, MD Assoc. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
	Mehtap KAÇAR, MD, PhD, Assoc. Prof.
	Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD, PhD, Assoc. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, 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	Instructor
TURKISH LANGUAGE & LITERATURE	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 contex.

COMMITTEE III –TISSUE I
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DICIPLINES	LECTURER / INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	IE	TOTAL
1.0 - 3.0	ANATOMY	Dr. E. Söztutar	32	8	8	48
4.0, 5.0	BIOPHYSICS	Dr. B.Güvenç Tuna	16	5	5	26
6.0, -10.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Cumbul Dr. A. Yaba Uçar	23	6	6	35
11.0	MEDICAL HISTORY & ETHICS	Dr. E. Vatanoğlu Lutz	7	2	2	11
12.0 -15.0	PHYSİOLOGY	Dr. B. Gemici Başol	14	4	4	22
16.0	IMMUMOLOGY	Dr. G. Yanıkkaya Demirel	7	2	2	11
17.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	**100**	**27/200#**	**27/200#**	**154**

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

Total number of MCQs are 100 (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 **27** 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 / 7 Jan –11 Jan 2019

<table>
<tr><th></th><th>Monday
7-Jan-2019</th><th>Tuesday
8-Jan-2019</th><th>Wednesday
9-Jan-2019</th><th>Thursday
10-Jan-2019</th><th>Friday
11-Jan-2019</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="3">PBL Session</td><td colspan="2">Independent Learning</td><td>Lecture
Asymmetric Distribution&
Transport of Ions
Bilge Güvenç Tuna</td><td>Lecture
Skeletal Muscle Physiology
Burcu Gemici Başol</td></tr>
<tr><td>10.00- 10.50</td><td colspan="2">Clinical Skills Learning
ICP I
Patient-Casualty Transportation /
Bandaging Techniques
Özlem Tanrıöver &
Serdar Özdemir</td><td>Lecture
Membrane Potentials and
Action Potentials
Burcu Gemici Başol</td><td>Lecture
Asymmetric Distribution&
Transport of Ions
Bilge Güvenç Tuna</td><td>Lecture
Joints of the Upper Limb
Erdem Söztutar</td></tr>
<tr><td>11.00- 11.50</td><td rowspan="2">Independent Learning</td><td rowspan="2">Group A
Scientific Project
Small Group Studiess</td><td rowspan="2">Group B and C
Independent Learning</td><td rowspan="2">Group D</td><td>Lecture
Membrane Potentials and
Action Potentials
Burcu Gemici Başol</td><td rowspan="2">Introduction to
Elective Courses</td><td>Lecture
Joints of the Upper Limb
Erdem Söztutar</td></tr>
<tr><td>12.00- 12.50</td><td>Lecture
Histology of Covering
Epithelium; Structure,
Classification
Aylin Yaba Uçar</td><td>Lecture
Joints of the Upper Limb
Erdem Söztutar</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td colspan="3">Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td>Introductory Session
Introduction to Committee III
Secretary of Committee III</td><td colspan="3" rowspan="4">Independent Learning</td><td colspan="2">Laboratory / Histology
Histology of Epithel Tissue
Alev Cumbul & Aylin Yaba Uçar</td><td>Lecture
Introduction to Arthrology
Erdem Söztutar</td><td rowspan="4">Independent Learning</td></tr>
<tr><td>15.00- 15.50</td><td rowspan="3">Independent Learning</td><td>Group A
Independent
Learning</td><td>Group B</td><td>Lecture
Introduction to Arthrology
Erdem Söztutar</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Group A</td><td rowspan="2">Group B
Independent
Learning</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td></tr>
</table>

COMMITTEE III - TISSUE I
II. WEEK / 14 – 18 Jan 2019

	Monday 14-Jan-2019	Tuesday 15-Jan-2019	Wednesday 16-Jan-2019	Thursday 17-Jan-2019	Friday 18-Jan-2019
09.00- 09.50	**PBL Session**	**Independent Learning**	**Lecture** Histology of Muscle Tissue; General Specification *Alev Cumbul*	**Lecture** Neuromuscular Transmission *Burcu Gemici Başol*	**Laboratory / Physiology** EMG I *Burcu Gemici Başol*
10.00- 10.50		**Lecture / ICP I** Introduction to Communication Skills *Özlem Tanrıöver*	**Lecture** Histology of Striated Skeletal Muscle *Alev Cumbul*	**Lecture** Resting Membrane Potential: Ionic Balance *Bilge Güvenç Tuna*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50		**Lecture / ICP I** Basic Communication Skills *Arzu Akalın*	**Lecture** Joints of the Vertebral Column *Erdem Söztutar*	**Lecture** Histology of Heart & Smooth Muscle *Alev Cumbul*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
12.00- 12.50	**Independent Learning**	**Lecture / ICP I** Basic Communication Skills *Arzu Akalın*	**Lecture** Joints of the Axial Skeleton *Erdem Söztutar*	**Lecture** Development of the Muscular System *Alev Cumbul*	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Histology of Covering Epithelium; Surface Specification *Aylin Yaba Uçar*	**Lecture** Joints of the Lower Limb *Erdem Söztutar*	**Laboratory/Anatomy** Joints of the Lower Limb *Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Laboratory / Anatomy** Joints of the Vertebral Column and Axial Skeleton *Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
15.00- 15.50	**Lecture** Histology of Glandular Epithelium *Aylin Yaba Uçar*	**Lecture** Joints of the Lower Limb *Erdem Söztutar*	**Group A** / **Group B Independent Learning**	**Group A Independent Learning** / **Group B**	
16.00- 16.50	**Laboratory / Anatomy** Joints of the Upper Limb *Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Lecture** Joints of the Lower Limb *Erdem Söztutar*	**Independent Learning**	**Independent Learning**	**Independent Learning**
17.00-17.50	**Group A Independent Learning** / **Group B**	**Independent Learning**			

MIDTERM BREAK

21 JAN 2019 - 03 FEB 2019

COMMITTEE III - TISSUE I
III. WEEK / 04 Feb – 08 Feb 2019

	Monday 04-Feb-2019		Tuesday 05-Feb-2019	Wednesday 06-Feb-2019	Thursday 07-Feb-2019	Friday 08-Feb-2019		
09.00- 09.50	**Laboratory / Histology** Histology of Muscle Tissue *Alev Cumbul & Aylin Yaba Uçar*		**Lecture** Histology of Connective Tissue; Extracellular Matrix *Alev Cumbul*	**Lecture** Smooth Muscle Physiology *Burcu Gemici Başol*	**Lecture** What is Immunology? *Gulderen Yanikkaya Demirel*	**Laboratory / Physiology** EMG II *Burcu Gemici Başol*		
10.00- 10.50	**Group A**	**Group B Independent Learning**	**Lecture / ICP I** The Medical Interview *Güldal İzbırak*	**Lecture** Smooth Muscle Physiology *Burcu Gemici Başol*	**Lecture** What is Immunology? *Gulderen Yanikkaya Demirel*	**Group A Independent Learning**	**Group B**	**Group C Independent Learning**
11.00- 11.50	**Group A Independent Learning**	**Group B**	**Lecture / ICP I** The Medical Interview *Güldal İzbırak*	**Lecture** Nernst and Goldman Equations *Bilge Güvenç Tuna*	**Lecture** Histology of Connective Tissue; Cells *Alev Cumbul*	**Group A Independent Learning**	**Group B Independent Learning**	**Group C**
12.00- 12.50			**Lecture / ICP I** Giving Information *Özlem Tanrıöver*	**Lecture** Biophysical Modeling of Membrane & Ion Channels *Bilge Güvenç Tuna*	**Lecture** Histology of Connective Tissue Proper; Types *Alev Cumbul*			
13.00- 13.50	**Lunch Break**		**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**		
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Introduction to Myology *Erdem Söztutar*	**Lecture** Action potential: Rheobase and Chronaxie *Bilge Güvenç Tuna*	**Group A**	**Group B Independent Learning**	**Group C Independent Learning**
15.00- 15.50				**Lecture** Introduction to Myology *Erdem Söztutar*	**Lecture** Impulse Propagation *Bilge Güvenç Tuna*			
16.00- 16.50	**Lecture** Joints of the Cranium and Fontanelles *Erdem Söztutar*		**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Independent Learning**	**Independent Learning**	**Independent Learning**		
17.00-17.50	**Lecture** Joints of the Cranium and Fontanelles *Erdem Söztutar*							

COMMITTEE III - TISSUE I
IV. WEEK / 11 Feb – 15 Feb 2019

	Monday 11-Feb-2019	Tuesday 12-Feb-2019	Wednesday 13-Feb-2019	Thursday 14-Feb-2019	Friday 15-Feb-2019
09.00- 09.50	**Independent Learning**	**Lecture** Blood, RBC and Platelets *Aylin Yaba Uçar*	**Independent Learning**	**Lecture** Cells and Tissues of Immune System *Gülderen Yanikkaya Demirel*	**Lecture** Physiology of Cardiac Muscle *Burcu Gemici Başol*
10.00- 10.50	**Laboratory/Anatomy** Joints of the Cranium and Fontanelles *Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Lecture** Blood WBC, Blood Smear *Aylin Yaba Uçar*		**Lecture** Cells and Tissues of Immune System *Gülderen Yanikkaya Demirel*	**Lecture** Physiology of Cardiac Muscle *Burcu Gemici Başol*
11.00- 11.50	**Group A** / **Group B Independent Learning**	**Lecture / ICP I** The Medical History *Güldal İzbirak*		**Lecture** Contractile Machinery; Sliding Filament Theory *Bilge Güvenç Tuna*	**Laboratory / Physiology** Smooth Muscle Contractility *Burcu Gemici Başol*
12.00- 12.50	**Lunch Break**	**Lecture / ICP I** The Medical History *Güldal İzbırak*		**Lecture** Muscle Mechanic; Mechanical Powers of Cardiac and Skeletal Muscle *Bilge Güvenç Tuna*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
13.00- 13.50	**PROGRAM IMPROVEMENT SESSION** *Phase Coordinator*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50 15.00- 15.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Independent Learning**	**ELECTIVE WEEK I** / **Independent Learning**	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
16.00- 16.50 17.00-17.50	**Lecture** Muscles of the Back *Erdem Söztutar* **Lecture** Muscles of the Back and Nape *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*		**Independent Learning** / **ELECTIVE WEEK I**	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**

COMMITTEE III - TISSUE I
V. WEEK / 18 Feb – 22 Feb 2019

	Monday 18-Feb-2019	Tuesday 19-Feb-2019	Wednesday 20-Feb-2019	Thursday 21-Feb-2019	Friday 22-Feb-2019
09.00- 09.50	**Laboratory / Histology** *Alev Cumbul & Aylin Yaba Uçar* Review Session Group A and B	**Independent Learning**	**Lecture** Antibiotics, Cancer Therapy *Elif Vatanoğlu Lutz*	**Lecture / Scientific Project I** How to Write an Article *Gülderen Yanıkkaya Demirel*	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Burcu Gemici Başol*
10.00- 10.50		**Assessment Session ICP I** (MCQ)	**Lecture** Heyday and Crisis (20 th C.) *Elif Vatanoğlu Lutz*	**Lecture / Scientific Project I** How to Write an Article *Gülderen Yanıkkaya Demirel*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50	**Laboratory / Anatomy** Muscles of the Back and Nape *Erdem Söztutar* / **Group A** / **Group B Independent Learning**		**Lecture** Genetic Medicine *Elif Vatanoğlu Lutz*	**Lecture** Introduction to Peripheral Nervous System *Erdem Söztutar*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
12.00- 12.50	**Group A Independent Learning** / **Group B**		**Lecture** History of our Future *Elif Vatanoğlu Lutz*	**Lecture** Spinal Nerves *Erdem Söztutar*	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Haematopoiesis *Aylin Yaba Uçar*	**ELECTIVE WEEK II** / **Independent Learning**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
15.00- 15.50			**Lecture** Biophysics of Smooth Muscle Contraction *Bilge Güvenç Tuna*		
16.00- 16.50	**Independent Learning**	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Independent Learning**	**Independent Learning** / **ELECTIVE WEEK II**	**Independent Learning**
17.00-17.50					

COMMITTEE III - TISSUE I
VI. WEEK / 25 Feb – 01 Mar 2019

	Monday 25-Feb-2019	Tuesday 26-Feb-2019	Wednesday 27-Feb-2019	Thursday 28-Feb-2019		Friday 01-Mar-2019
09.00- 09.50	**Assessment Session** **Histology** (Practical Exam)	**Assessment Session** Anatomy (Practical Exam)	**Independent Learning**	**Independent Learning**		**Independent Learning**
10.00- 10.50						
11.00- 11.50	**Assessment Session** Physiology (Practical Exam)	**Independent Learning**				
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 *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Independent Learning**	**ELECTIVE WEEK III**	**Independent Learning**	**Assessment Session** **Committee III** (MCQ)
15.00- 15.50						
16.00- 16.50	**Independent Learning**	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*		**Independent Learning**	**ELECTIVE WEEK III**	**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Committee III Program *Head of Committee*
17.00-17.50						**Independent Learning**

COMMITTEE IV - TISSUE II

DISTRIBUTION of LECTURE HOURS

March 04, 2019 - April 26, 2019

COMMITTEE DURATION: 8 WEEKS

MED 104	**BASIC MEDICAL SCIENCES I DISCIPLINE**	**THEO.**	**PRAC.**	**TOTAL**
	ANATOMY	26	2Grx11H	37
	BEHAVIORAL SCIENCES	14	0	14
	BIOCHEMISTRY	32	3Grx2H	34
	BIOPHYSICS	6	0	6
	BIOSTATISTICS	12	0	12
	HISTOLOGY & EMBRYOLOGY	8	2Grx5H	13
	MEDICAL BIOLOGY	7	3Grx2H	9
	IMMUNOLOGY	4	0	4
	TOTAL	***109***	***20***	***129***

MED 103	**ANATOMICAL DRAWING**	0	16	16
MED 102	**INTRODUCTION TO CLINICAL PRACTICE-I**	0	4GrX6H	6
HTR 302	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	16	0	16
TKL 202	**TURKISH LANGUAGE & LITERATURE**	16	0	16
MED 611-631	**FREE ELECTIVE COURSE**	16	0	16

	TOTAL	**157**	**42**	**199**

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

COMMITTEE IV – TISSUE II
LECTURERS

BASIC MEDICAL SCIENCES I DISCIPLINE	LECTURES
ANATOMY	Erdem SÖZTUTAR, MD. Assist. Prof.
BEHAVIORAL SCIENCES	Instructor
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	Aylin YABA UÇAR, PhD, Assoc. Prof.
	Alev CUMBUL, PhD, Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Soner DOĞAN, PhD, Assoc. Prof.
	Deniz KIRAÇ, PhD, Assoc. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Assoc. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD, PhD, 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, PhD, Assist. Prof.
ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist. Prof.
ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Instructor
TURKISH LANGUAGE & LITERATURE	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, head, neck, thoracic and abdominal muscles
3.0. describe the clinical implications of the anatomical features of the upper limb and axial muscles.
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
18.0 explain case scenario related basic medical science topics in a clinical context.

COMMITTEE IV – TISSUE II
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DICIPLINES	LECTURER / INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	IE	TOTAL
1.0 – 3.0	ANATOMY	Dr. E. Söztutar	24	12	12	48
4.0 – 7.0	BEHAVIORAL SCIENCE	Behavioral Science	13	6	6	25
8.0 – 10.0	BIOCHEMISTRY	Dr. İ. Özden Dr. B. Dalan	29	15	15	59
11.0	BIOPHYSICS	Dr. B.G. Tuna	5	2	2	9
12.0,13.0	BIOSTATISTICS	Dr. Ç. Altunok	-	5	5	10
14.0, 15.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Cumbul Dr. A. Yaba Uçar	7	4	4	15
16.0	MEDICAL BIOLOGY	Dr. T. İsbir	6	3	3	12
17.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	4	2	2	8
18.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	**89**	**49/200#**	**49/200#**	**187**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EQ*POINTS
		CE
12.0,13.0	BIOSTATISTICS	11
	TOTAL	**11**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB POINTS
		LPE
1.0 – 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 89 (each question has equal value)
Total value of LPE is equal to 100 points
CS = 95% of [90% CE (MCQ+EQ) + 10% (LPE)] + 5% of PBL-P
#In FE and ICE **49** out of 200 MCQs will be from this Committee (Each question has equal value).

Abbreviations:
MCQ: Multiple Choice Question
EQ: 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 IV -TISSUE II
I. WEEK / 4 Mar – 08 Mar 2019

	Monday 04-Mar-2019	Tuesday 05-Mar-2019	Wednesday 06-Mar-2019	Thursday 07-Mar-2019	Friday 08-Mar-2019
09.00- 09.50	**PBL Session**	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver & Arzu Akalın*	**Independent Learning**	**Laboratory / Anatomy** Muscles of the Arm *Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Independent Learning**
10.00- 10.50		**Group A** / **Group B Scientific Project Small Group Studies** / **Group C and D Independent Learning**		**Group A** / **Group B Independent Learning**	
11.00- 11.50			**Lecture** Main Concepts in Biostatistics *E. Çiğdem Altunok*	**Behavioral Science / Lecture** Life Cycle: Pregnancy through Preschool *Instructors*	**Lecture** Frequency Distributions *E. Çiğdem Altunok*
12.00- 12.50	**Independent Learning**	**Introductory Session** Introduction to Commitee IV *Head of Committee IV*	**Lecture** Main Concepts in Biostatistics *E. Çiğdem Altunok*	**Behavioral Science / Lecture** Life Cycle; School Age, Adolescence and Adulthood *Instructors*	**Lecture** Graphics *E. Çiğdem Altunok*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Muscles of the Arm *Erdem Söztutar*	**ELECTIVE WEEK IV** / **Independent Learning**	**Lecture** Muscles of the Forearm *Erdem Söztutar*
15.00- 15.50			**Lecture** Muscles of the Arm *Erdem Söztutar*		**Lecture** Muscles of the Forearm *Erdem Söztutar*
16.00- 16.50	**Lecture** Muscles of the Shoulder Girdle *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Laboratory / Anatomy** Muscles of the Shoulder Girdle and Axilla *Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Independent Learning** / **ELECTIVE WEEK IV**	**Laboratory / Anatomy** Muscles of the Forearm *Erdem Söztutar* **Group A** / **Group B Independent Learning**
17.00-17.50	**Lecture** Muscles of the Shoulder Girdle and Axilla *Erdem Söztutar*		**Group A Independent Learning** / **Group B**		**Group A Independent Learning** / **Group B**

COMMITTEE IV - TISSUE II
II. WEEK / 11 Mar – 15 Mar 2019

	Monday 11-Mar-2019	Tuesday 12-Mar-2019	Wednesday 13-Mar-2019	Thursday 14-Mar-2019	Friday 15-Mar-2019
09.00- 09.50	**PBL Session**	**Independent Learning**	**Lecture** Brachial Plexus *Erdem Söztutar*	**PHYSICIANS' DAY** **&** **WHITE COAT CEREMONY**	**Lecture** Classification of Carbohydrates, General Features of Carbohydrates *İnci Özden*
10.00- 10.50		**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver & Arzu Akalın*	**Lecture** Brachial Plexus *Erdem Söztutar*		**Lecture** Monosaccharide Derivatives, Disaccharides, Polysaccharides, Starch, Glycogen *İnci Özden*
11.00- 11.50		**Group A and D Independent Learning** / **Group B** / **Group C Scientific Project Small Group Studies**	**Lecture** Histology of Adipose Tissue *Alev Cumbul*		**Lecture** Extracellular Matrix *Turgay İsbir*
12.00- 12.50	**Independent Learning**		**Lecture** Histology of Cartilage Tissue *Alev Cumbul*		**Lecture** Extracellular Matrix *Turgay İsbir*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**		**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Nerves of the Upper Limb *Erdem Söztutar*		**Lecture** Digital recording of biomedical signals *Bilge Güvenç Tuna*
15.00- 15.50			**Lecture** Vasculature of the Upper Limb *Erdem Söztutar*		**Lecture** Digital recording of biomedical signals *Bilge Güvenç Tuna*
16.00- 16.50	**Lecture** Muscles of the Hand *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Laboratory / Anatomy** Muscles of the Hand *Erdem Söztutar* **Group A Independent Learning** / **Group B**		**Laboratory / Anatomy** Brachial Plexus, Nerves and Vasculature of the Upper Limb *Erdem Söztutar* **Group A** / **Group B Independent Learning**
17.00-17.50	**Lecture** Muscles of the Hand *Erdem Söztutar*		**Group A** / **Group B Independent Learning**		**Group A Independent Learning** / **Group B**

COMMITTEE IV - TISSUE II
III. WEEK / 18 – 22 Mar 2019

	Monday 18-Mar-2019	Tuesday 19-Mar-2019	Wednesday 20-Mar-2019	Thursday 21-Mar-2019	Friday 22-Mar-2019
09.00- 09.50	**Laboratory / Histology** Histology of Connective and Cartilage Tissue *Alev Cumbul & Aylin Yaba Uçar*	**Lecture** Histology of Bone Tissue; Microscopic Structure *Alev Cumbul*	**Lecture** Extracellular Matrix *Turgay İsbir*	**Lecture** Classification of Lipids, General Features of Lipids *İnci Özden*	**Lecture** Saturated and Unsaturated Fatty Acids, Essential Fatty Acids *İnci Özden*
10.00- 10.50	**Group A Independent Learning** / **Group B**	**Lecture** Mechanical Properties of Biomaterials *Bilge Güvenç Tuna*	**Lecture** Monosaccharide Derivatives, Disaccharides, Polysaccharides, Starch, Glycogen *İnci Özden*	**Lecture** Classification of Lipids, General Features of Lipids *İnci Özden*	**Lecture** Saturated and Unsaturated Fatty Acids, Essential Fatty Acids *İnci Özden*
11.00- 11.50	**Group A** / **Group B Independent Learning**	**Lecture** Glycerophospholipids, Sphingophospholipids *İnci Özden*	**Lecture** Glycosaminoglycans, Structures and Functions *İnci Özden*	**Behavioral Science / Lecture** Life Cycle; Aging, Death and Bereavement *Instructors*	**Behavioral Science / Lecture** The Biological Bases of Behavior *Instructors*
12.00- 12.50		**Lecture** Glycerophospholipids, Sphingophospholipids *İnci Özden*	**Lecture** Stress-Strain, Stiffness *Bilge Güvenç Tuna*	**Behavioral Science / Lecture** Life Cycle; Aging, Death and Bereavement *Instructors*	**Behavioral Science / Lecture** The Biological Bases of Behavior *Instructors*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Histology of Bone Tissue; Ossification *Alev Cumbul*	**ELECTIVE WEEK V** / **Independent Learning**	**Lecture** Muscles of the Head and Scalp *Erdem Söztutar*
15.00- 15.50			**Lecture** Development of the Axial Skeleton and Limb *Alev Cumbul*		**Lecture** Muscles of the Head and Scalp *Erdem Söztutar*
16.00- 16.50	**Lecture** Cervical Muscles and Triangles *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Laboratory / Anatomy** Cervical muscles and triangles *Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Independent Learning** / **ELECTIVE WEEK V**	**Independent Learning**
17.00-17.50	**Lecture** Cervical Muscles *Erdem Söztutar*		**Group A** / **Group B Independent Learning**		

COMMITTEE IV - TISSUE II
IV. WEEK / 25 – 29 Mar 2019

<table>
<tr><th></th><th>Monday
25-Mar-2019</th><th>Tuesday
26-Mar-2019</th><th>Wednesday
27-Mar-2019</th><th>Thursday
28-Mar-2019</th><th>Friday
29-Mar-2019</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="2">Independent Learning</td><td>Independent Learning</td><td>Lecture
Triacylglycerols
İnci Özden</td><td>Lecture
Eicosanoids
İnci Özden</td><td>Lecture
Isoprene Derivative, Steroids, Bile Acids
İnci Özden</td></tr>
<tr><td>10.00- 10.50</td><td>Clinical Skills Learning
ICP I
Patient-Doctor Communication Skills, General Approach
Özlem Tanrıöver & Arzu Akalın</td><td>Lecture
Triacylglycerols
İnci Özden</td><td>Lecture
Eicosanoids
İnci Özden</td><td>Lecture
Isoprene Derivatives, Steroids, Bile Acids
İnci Özden</td></tr>
<tr><td>11.00- 11.50</td><td colspan="2">Laboratory / Anatomy
Muscles of the Head and Scalp
Erdem Söztutar</td><td rowspan="2">Group A and B Independent Learning</td><td rowspan="2">Group C</td><td rowspan="2">Group D Sci. Project Small Group Studies</td><td rowspan="2">Lecture
Measures of Central Tendencies
E. Çiğdem Altunok</td><td rowspan="2">Behavioral Science / Lecture
Sleep and Sleep Disorders
Instructors</td><td rowspan="2">Lecture
Elasticity
Bilge Güvenç Tuna</td></tr>
<tr><td>Group A</td><td>Group B Independent Learning</td></tr>
<tr><td>12.00- 12.50</td><td>Group A Independent Learning</td><td>Group B</td><td>Lecture
Frequency Distributions
E. Çiğdem Altunok</td><td>Behavioral Science / Lecture
Substance Releated Disorders
Instructors</td><td>Lecture
Shear Stress, Poisson’s Law
Bilge Güvenç Tuna</td></tr>
<tr><td>13.00- 13.50</td><td colspan="2">Lunch Break</td><td colspan="3">Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td colspan="2" rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td><td colspan="3" rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Histology of Nerveous Tissue: General Specification
Aylin Yaba Uçar</td><td rowspan="2">ELECTIVE WEEK VI</td><td rowspan="2">Independent Learning</td><td rowspan="3">Independent Learning</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Histology of Nerveous Tissue: Neuron Types
Aylin Yaba Uçar</td></tr>
<tr><td>16.00- 16.50</td><td colspan="2">Lecture
Cervical Plexus
Erdem Söztutar</td><td colspan="3" rowspan="2">Common Compulsory Course
Ataturk's Principles & Hıstory of Modern Turkey
Instructor</td><td rowspan="2">Independent Learning</td><td rowspan="2">Independent Learning</td><td rowspan="2">ELECTIVE WEEK VI</td></tr>
<tr><td>17.00-17.50</td><td colspan="2">Lecture
Nerves and Vasculature of the Neck
Erdem Söztutar</td></tr>
</table>

COMMITTEE IV - TISSUE II
V. WEEK / 01-05 Apr 2019

	Monday 01-Apr-2019	Tuesday 02-Apr-2019	Wednesday 03-Apr-2019	Thursday 04-Apr-2019	Friday 05-Apr-2019
09.00- 09.50	**Independent Learning**	**Lecture** Histology of Nerveous Tissue: Glia Types *Aylin Yaba Uçar*	**Lecture** Amino Acids, General Features, Classification *Burak Dalan*	**Lecture** Primary, Secondary, Tertiary, Quaternary Structures of Proteins *Burak Dalan*	**Laboratory / Med. Biology** Oxidative Stress and Antioxidant System *Turgay İsbir & Soner Doğan & Deniz Kıraç* **Laboratory / Biochemistry** Spectrophotometry *Jale Çoban & Müge Kopuz*
10.00- 10.50		**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills General Approach *Özlem Tanrıöver & Arzu Akalın*	**Lecture** Amino Acids, General Features, Classification *Burak Dalan*	**Lecture** Primary, Secondary, Tertiary, Quaternary Structures of Proteins *Burak Dalan*	**Group A Med. Biology** / **Group B Biochemistry** / **Group C Independent Learning**
11.00- 11.50	**Laboratory / Anatomy** Cervical Plexus, Nerves and Vasculature of the Neck *Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Group A Sci. Project Small Group Studies** / **Group B and C Independent Learning** / **Group D**	**Lecture** Measures of Central Tendencies *E.Çiğdem Altunok*	**Behavioral Science / Lecture** Psychoanalythic Theory and Defense Mechanism *Instructors*	**Group A Independent Learning** / **Group B Med. Biology** / **Group C Biochemistry**
12.00- 12.50	**Group A** / **Group B Independent Learning**		**Lecture** Measures of Central Tendencies *E.Çiğdem Altunok*	**Behavioral Science / Lecture** Psychoanalythic Theory and Defense Mechanism *Instructors*	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Biochemistry/ Lecture** Spectrophotometry *Jale Çoban & Müge Kopuz*	**ELECTIVE WEEK VII (Midterm Exam)** / **Independent Learning**	**Group A Biochemistry** / **Group B Independent Learning** / **Group C Med. Biology**
15.00- 15.50			**Lecture** Muscle of the Thoracic Wall *Erdem Söztutar*		
16.00- 16.50	**Lecture** Nerves of the Head *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & Hıstory of Modern Turkey *Instructor*	**Laboratory / Anatomy** Nerves and Vasculature of the Head *Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Independent Learning** / **ELECTIVE WEEK VII (Midterm Exam)**	**Independent Learning**
17.00-17.50	**Lecture** Vasculature of the Head *Erdem Söztutar*		**Group A Independent Learning** / **Group B**		

COMMITTEE IV - TISSUE II
VI. WEEK / 08 - 12 Apr 2019

	Monday 08-Apr-2019	Tuesday 09-Apr-2019	Wednesday 10-Apr-2019	Thursday 11-Apr-2019	Friday 12-Apr-2019
09.00- 09.50	**Laboratory / Histology** Histology of Bone and Nervous Tissue *Alev Cumbul & Aylin Yaba Uçar*	**Independent Learning**	**Lecture** Glycoproteins, Collagen, α keratin *Burak Dalan*	**Lecture** Innate Immunity *Gülderen Yanıkkaya Demirel*	**Lecture** Nucleotides *İnci Özden*
10.00- 10.50	**Group A** / **Group B Independent Learning**	**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Arzu Akalın & Serdar Özdemir*	**Lecture** Glycoproteins, Collagen, α keratin *Burak Dalan*	**Lecture** Innate Immunity *Gülderen Yanıkkaya Demirel*	**Lecture** Nucleotides *İnci Özden*
11.00- 11.50	**Group A Independent Learning** / **Group B**	**Group A** / **Group C Sci. Project Small Group Studies** / **Group B and D Independent Learning**	**Lecture** Measures of Central Dispersion *E.Çiğdem Altunok*	**Behavioral Science / Lecture** Learning Theory *Instructors*	**Lecture** Rates and Ratios *E.Çiğdem Altunok*
12.00- 12.50			**Lecture** Measures of Central Dispersion *E.Çiğdem Altunok*	**Behavioral Science / Lecture** Perception *Instructors*	**Lecture** Standardization of Disease Rates *E.Çiğdem Altunok*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Anatomy** Muscle of the Thoracic and Abdominal Wall *Erdem Söztutar*	**ELECTIVE WEEK VIII**	**Independent Learning** / **Lecture** Extracellular Matrix *Turgay İsbir*
15.00- 15.50			**Group A Independent Learning** / **Group B** **Group A** / **Group B Independent Learning**		**Lecture** Extracellular Matrix *Turgay İsbir*
16.00- 16.50	**Lecture** Muscle of the Abdominal Wall *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Independent Learning**	**Independent Learning**	**ELECTIVE WEEK VIII** / **Independent Learning**
17.00-17.50	**Lecture** Muscle of the Abdominal Wall and Inguinal Canal *Erdem Söztutar*				

COMMITTEE IV - TISSUE II
VII. WEEK / 15 – 19 Apr 2019

	Monday 15-Apr-2019	Tuesday 16-Apr-2019	Wednesday 17-Apr-2019	Thursday 18-Apr-2019	Friday 19-Apr-2019
09.00- 09.50	**Independent Learning**	**Lecture** Nerves and Vasculature of the Thoracic Wall *Erdem Söztutar*	**Lecture** Adaptive Immunity *Gülderen Yanıkkaya Demirel*	**Lecture** International Enzyme Commission Classification of Enzymes *İnci Özden*	**Independent Learning**
10.00- 10.50	**Laboratory / Histology Review Sesion** *Alev Cumbul &* *Aylin Yaba Uçar* **Group A and Group B**	**Clinical Skills Learning ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Arzu Akalın & Serdar Özdemir*	**Lecture** Adaptive Immunity *Gülderen Yanıkkaya Demirel*	**Lecture** International Enzyme Commission Classification of Enzymes *İnci Özden*	**Lecture** ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation *İnci Özden*
11.00- 11.50		**Group C and D Independent Learning** / **Group B** / **Group A Sci. Project Small Group Studies**	**Lecture** Enzymes, Kinetics, Regulatory Enzymes *İnci Özden*	**Behavioral Science / Lecture** Perception *Instructors*	**Lecture** ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation *İnci Özden*
12.00- 12.50	**Independent Learning**		**Lecture** Enzymes, Kinetics,Regulatory Enzymes *İnci Özden*	**Behavioral Science / Lecture** Emotion *Instructors*	**Lecture** Oxidative Decarboxylation *İnci Özden*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Anatomy** Nerves and Vasculature of the Thoracic Wall *Erdem Söztutar* **Group A** / **Group B Independent Learning**	**ELECTIVE WEEK IX**	**Lecture** Biology of Oxidative Stress *Turgay İsbir*
15.00- 15.50			**Group A Independent Learning** / **Group B**	**Independent Learning**	**Lecture** Biology of Oxidative Stress *Turgay İsbir*
16.00- 16.50	**Independent Learning**	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Discussion (Large Group)** Overview *Erdem Söztutar*	**Independent Learning**	**Independent Learning**
17.00-17.50			**Discussion (Large Group)** Overview *Erdem Söztutar*	**ELECTIVE WEEK IX**	

COMMITTEE IV - TISSUE II
VIII. WEEK / 22 – 26 Apr 2019

<table>
<tr><th></th><th>Monday
22-Apr-2019</th><th>Tuesday
23-Apr-2019</th><th>Wednesday
24-Apr-2019</th><th colspan="2">Thursday
25-Apr-2019</th><th>Friday
26-Apr-2019</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="2">Assessment Session
Anatomy
(Practical Exam)</td><td rowspan="9">NATIONAL HOLIDAY</td><td rowspan="5">Independent Learning</td><td rowspan="2" colspan="2">Assessment Session
Medical Biology
(Practical Exam)</td><td>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="4">Assessment Session Committee IV
(MCQ)</td></tr>
<tr><td>11.00- 11.50</td><td rowspan="3">Assessment Session
Biostatistics
(Writing Exam-EQ)</td><td rowspan="2" colspan="2">Assessment Session Histology
(Practical Exam)</td></tr>
<tr><td>12.00- 12.50</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td>Lunch Break</td><td colspan="2">Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Instructor</td><td rowspan="4">Independent Learning</td><td>ELECTIVE WEEK X</td><td>Independent Learning</td><td rowspan="2">Program Evaluation Session
Review of the Exam Questions, Evaluation of the Committee IV Program
Head of Committee</td></tr>
<tr><td>15.00- 15.50</td><td rowspan="2">Independent Learning</td><td rowspan="2">ELECTIVE WEEK X</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td><td>Independent Learning</td></tr>
</table>

COMMITTEE V - ENERGY AND METABOLISM

DISTRIBUTION of LECTURE HOURS

April 29, 2019 - June 14, 2019

COMMITTEE DURATION: 6 WEEKS

MED 104	BASIC MEDICAL SCIENCES I DISCIPLINE	THEO.	PRAC.	PBL	TOTAL
	ANATOMY	14	2Grx5H		19
	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
	TOTAL	**78**	**12**	**6**	**96**

MED 103	**ANATOMICAL DRAWING**	0	6		6
HTR 302	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	6	0		6
TKL 202	**TURKISH LANGUAGE & LITERATURE**	6	0		6
MED 611-631	**FREE ELECTIVE COURSE**	10	0		10

	TOTAL	**100**	**18**	**6**	**124**

Coordination Committee	Head	Erdem Söztutar, MD, Assist. Prof.
	Secretary	Oya ALAGÖZ, Assist. Prof.
	Member	Alev CUMBUL, PhD, Assist. Prof.
	Member	E. Çiğdem ALTUNOK, PhD, Assist. Prof.

COMMITTEE V - ENERGY AND METABOLISM

LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**LECTURERS**
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof
BEHAVIORAL SCIENCES	Instructor
BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof.
BIOSTATISTICS	E. Çiğdem ALTUNOK, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Alev CUMBUL, PhD, Assist. Prof.
	Aylin Yaba UÇAR, PhD, Assoc. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Assoc. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Soner DOĞAN, PhD, Assoc. Prof.
	Deniz KIRAÇ, PhD, 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	Instructor
TURKISH LANGUAGE & LITERATURE	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 nerulation
13.0. list developmental events respectively from organogenesis to parturition
14.0. explain developmental link between embryonic layers and tissues that form organs.
15.0. describe contraception and assisted reproductive techniques.
16.0. associate the relation with congenital abnormalities and developmental processes.
17.0. define the features of mitochondrial genome and mutated mitochondrial genes.
18.0. 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	DICIPLINE	LECTURER / INSTRUCTOR	DISTRUBITION of MCQ			
			CE	FE	IE	TOTAL
1.0, 2.0	ANATOMY	Dr. E. Söztutar	18	6	6	30
3.0, 4.0	BEHAVIORAL SCIENCE	Behavioral Science	13	5	5	23
5.0 - 8.0	BIOCHEMISRY	Dr. İ. Özden	28	10	10	48
9.0, 11.0	BIOSTATISTICS	Dr. Ç. Altunok	-	6	6	12
12.0 - 16.0	HISTOLOGY &EMBRYOLOGY	Dr. A. Cumbul	11	4	4	19
12.0 - 16.0		Dr. A. Yaba Uçar				
17.0	MEDICAL BIOLOGY	Dr. T. İsbir	9	3	3	15
18.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	5	2	2	9
19.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	**85**	**36/200#**	**36/200#**	**157**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of EQ*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 85 (each question has equal value)
Total value of LPE is equal to 100 points
CS = 95% of [90% CE (MCQ+EQ) + 10% (LPE)] + 5% of PBL-P

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

Abbreviations:
MCQ: Multiple Choice Question
EQ: 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 / 29 Apr – 03 May 2019

	Monday 29-Apr-2019	Tuesday 30-Apr-2019	Wednesday 01-May-2019	Thursday 02-May-2019		Friday 03-May-2019
09.00- 09.50	**PBL Session**	**Introductory Session** Introduction to Committee V *Secretary of Committee V*	**Labor's Day**	**Lecture** Muscles of the Thigh *Erdem Söztutar*		**Independent Learning**
10.00- 10.50		**Lecture** Theoretical Distributions *E. Çiğdem Altunok*		**Lecture** Muscles of the Thigh *Erdem Söztutar*		
11.00- 11.50		**Lecture** Theoretical Distributions *E. Çiğdem Altunok*		**Behavioral Science / Lecture** Culture and Illness *Instructors*		
12.00- 12.50	**Independent Learning**	**Lecture** Genome of Mithocondria *Turgay İsbir*		**Behavioral Science / Lecture** Culture and Illness *Instructors*		
13.00- 13.50	**Lunch Break**	**Lunch Break**		**Lunch Break**		**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*		**ELECTIVE WEEK XI**	**Independent Learning**	**Independent Learning**
15.00- 15.50						
16.00- 16.50	**Lecture** Muscles of the Pelvic Girdle (Gluteal Region) *Erdem Söztutar*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*		**Independent Learning**	**ELECTIVE WEEK XI**	
17.00-17.50	**Lecture** Muscles of the Pelvic Girdle *Erdem Söztutar*					

COMMITTEE V - ENERGY AND METABOLISM
II. WEEK / 06 - 10 May 2019

	Monday 06-May-2019	Tuesday 07-May-2019	Wednesday 08-May-2019	Thursday 09-May-2019	Friday 10-May-2019
09.00- 09.50	**PBL Session**	**Lecture** Probability *E.Çiğdem Altunok*	**Lecture** Transport Through Biological Membranes *İnci Özden*	**Behavioral Science / Lecture** Human Sexuality *Instructors*	**Lecture** Genome of Mithocondria *Turgay İsbir*
10.00- 10.50		**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Arzu Akalın & Serdar Özdemir*	**Lecture** Transport Through Biological Membranes *İnci Özden*	**Behavioral Science / Lecture** Violence and Abuse *Instructors*	**Lecture** Genome of Mithocondria *Turgay İsbir*
11.00- 11.50		**Group A and B Independent Learning** / **Group C** / **Group D Sci. Project Small Group Studies**	**Lecture** Muscles of the Leg *Erdem Söztutar*	**Behavioral Science / Lecture** The Physician-Patient Relationship *Instructors*	**Lecture** Transport Through Biological Membranes *İnci Özden*
12.00- 12.50	**Independent Learning**		**Lecture** Muscles of the Leg *Erdem Söztutar*	**Behavioral Science / Lecture** The Physician-Patient Relationship *Instructors*	**Lecture** Transport Through Biological Membranes *İnci Özden*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Muscles of the Foot *Erdem Söztutar*	**ELECTIVE WEEK XII** / **Independent Learning**	**Lecture** Lumbosacral Plexus *Erdem Söztutar*
15.00- 15.50			**Lecture** Muscles of the Foot *Erdem Söztutar*		**Lecture** Lumbosacral Plexus *Erdem Söztutar*
16.00- 16.50	**Laboratory / Anatomy** Muscles of the Pelvic Girdle *Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Laboratory / Anatomy** Muscles of the Thigh *Erdem Söztutar* **Group A** / **Group B Independent Learning**	**Independent Learning** / **ELECTIVE WEEK XII**	**Laboratory / Anatomy** Muscles of the Leg *Erdem Söztutar* **Group A Independent Learning** / **Group B**
17.00-17.50	**Group A** / **Group B Independent Learning**		**Group A Independent Learning** / **Group B**		**Group A** / **Group B Independent Learning**

COMMITTEE V - ENERGY AND METABOLISM

III. WEEK / 13 – 17 May 2019

	Monday 13-May-2019	Tuesday 14-May-2019	Wednesday 15-May-2019	Thursday 16-May-2019	Friday 17-May-2019
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture** Probability *E. Çiğdem Altunok*	**Lecture** Digestion and Absorption of Carbohydrates *İnci Özden*	**Lecture** Extraembryoner Structures: Placenta, Chorion, Amnion *Aylin Yaba Uçar*
10.00- 10.50		**Clinical Skills Learning** **ICP I** Patient-Doctor Communication Skills Using SPs *Güldal İzbırak & Arzu Akalın & Serdar Özdemir*	**Lecture** Theoretical Distributions *E. Çiğdem Altunok*	**Lecture** Digestion and Absorption of Carbohydrates *İnci Özden*	**Lecture** Twins and Partrution *Aylin Yaba Uçar*
11.00- 11.50	**Laboratory / Anatomy** Muscles of the Foot *Erdem Söztutar* **Group A** / **Group B Independent Learning**		**Lecture** Glycogenesis *İnci Özden*	**Behavioral Science/Lecture** Legal and Ethical Issues in Medicine *Instructors*	**Lecture** Theoretical Distributions *E. Çiğdem Altunok*
12.00- 12.50	**Group A Independent Learning** / **Group B**	**Group A Sci. Project Small Group Studies** / **Group B and C Independent Learning** / **Group D**	**Lecture** Glycogenesis *İnci Özden*	**Behavioral Science/Lecture** Legal and Ethical Issues in Medicine *Instructors*	**Lecture** Diognostic Testing *E. Çiğdem Altunok*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Common Compulsory Course** Turkish Language & Literature *Instructor*	**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Somitogenesis; Mesoderm Organization *Alev Cumbul*	**ELECTIVE WEEK XIII** / **Independent Learning**	**Lecture** Glycogenolysis *İnci Özden*
15.00- 15.50			**Lecture** Neurulation; Neuroectoderm Organization *Alev Cumbul*		**Lecture** Glycogenolysis *İnci Özden*
16.00- 16.50	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel *E. Çiğdem Altunok*	**Common Compulsory Course** Ataturk's Principles & History of Modern Turkey *Instructor*	**Lecture** Biology of Energy and Energy Balance *Turgay İsbir*	**Independent Learning**	**Independent Learning**
17.00-17.50	**Group A** / **Group B Independent Learning** / **Group B Independent Learning**		**Lecture** Biology of Energy and Energy Balance *Turgay İsbir*	**ELECTIVE WEEK XIII**	

COMMITTEE V - ENERGY AND METABOLISM
IV. WEEK / 20 – 24 May 2019

	Monday 20-May-2019	Tuesday 21-May-2019	Wednesday 22-May-2019	Thursday 23-May-2019	Friday 24-May-2019
09.00- 09.50	**Laboratory / Histology** Developing Human *Alev Cumbul & Aylin Yaba Uçar*	**Lecture** Folding and Angiogenesis *Alev Cumbul*	**Lecture** Antigen-Antibody Reactions *Gülderen Yanıkkaya Demirel*	**Lecture** Cytokines and Immune Markers *Gülderen Yanıkkaya Demirel*	**Lecture** Epidemiological Research Methods *E.Çiğdem Altunok*
10.00- 10.50	**Group A** / **Group B Independent Learning**	**Lecture** Diognostic Testing *E. Çiğdem Altunok*	**Lecture** Antigen-Antibody Reactions *Gülderen Yanıkkaya Demirel*	**Lecture** Signal Transduction in Immunity *Gülderen Yanıkkaya Demirel*	**Lecture** Epidemiological Research Methods and Calculation of the Risk *E.Çiğdem Altunok*
11.00- 11.50	**Group A Independent Learning** / **Group B**	**Lecture** Regulation of Glycogenesis and Glycogenolysis *İnci Özden*	**Lecture** The Description of Epidemiology *E. Çiğdem Altunok*	**Behavioral Science / Lecture** Introduction to Psychopathology *Instructors*	**Lecture** Secondary Hemostasis, Procoagulation, Anticoagulation *İnci Özden*
12.00- 12.50		**Lecture** Regulation of Glycogenesis and Glycogenolysis *İnci Özden*	**Lecture** Sampling in Epidemiology *E. Çiğdem Altunok*	**Behavioral Science / Lecture** Introduction to Psychopathology *Instructors*	**Lecture** Secondary Hemostasis, Procoagulation, Anticoagulation *İnci Özden*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Nerves of the Lower Limb *Erdem Söztutar*	**Lecture** Glicolysis *İnci Özden*	**Lecture** Pentose Phosphate Pathway *İnci Özden*	**ELECTIVE WEEK XIV** / **Independent Learning**	**Lecture** Biology of Life Span *Turgay İsbir*
15.00- 15.50	**Lecture** Vasculature of the Lower Limb *Erdem Söztutar*	**Lecture** Glicolysis *İnci Özden*	**Lecture** Pentose Phosphate Pathway *İnci Özden*		**Lecture** Biology of Life Span *Turgay İsbir*
16.00- 16.50	**Independent Learning**	**Laboratory / Biostatistics** Basic Statistical Calculations on Excel *E. Çiğdem Altunok* **Group A Independent Learning** / **Group B** / **Group C Independent Learning**	**Laboratory / Anatomy** Lumbosacral Plexus, Nerves and Vasculature of the Lower Limb *Erdem Söztutar* **Group A Independent Learning** / **Group B**	**Independent Learning** / **ELECTIVE WEEK XIV**	**Independent Learning**
17.00-17.50			**Group A** / **Group B Independent Learning**		

COMMITTEE V - ENERGY AND METABOLISM
V. WEEK / 27 – 31 May 2019

	Monday 27-May-2019	Tuesday 28-May-2019	Wednesday 29-May-2019	Thursday 30-May-2019	Friday 31-May-2019
09.00- 09.50	**Independent Learning**	**Lecture** Infertility and Contraception *Aylin Yaba Uçar*	**Lecture** Fibrinolysis, Fibrinolytic and Antifibrinolytic Agents *İnci Özden*	**Independent Learning**	**Independent Learning**
10.00- 10.50		**Lecture** Asissted Reproductive Technology; Methods *Aylin Yaba Uçar*	**Lecture** Fibrinolysis, Fibrinolytic and Antifibrinolytic Agents *İnci Özden*		
11.00- 11.50	**Elective Course Final Exam**	**Laboratory / Histology** Review Sesion *Alev Cumbul & Aylin Yaba Uçar*	**Laboratory / Biochemistry** Glucose Determination in Blood, Occult Blood in Feces, Bleeding Time *Jale Çoban & Müge Kopuz*		
12.00- 12.50		**Group A** / **Group B Independent Learning** **Group A Independent Learning** / **Group B**	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**		
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Organogenesis & Fetal Periods *Aylin Yaba Uçar*	**Lecture** Gluconeogenesis *İnci Özden*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**	**Independent Learning**	**Independent Learning**
15.00- 15.50	**Lecture** Congenital Anomalies and Teratology *Alev Cumbul*	**Lecture** Gluconeogenesis *İnci Özden*			
16.00- 16.50	**Laboratory / Biostatistics** Basic Statistical Calculations in Excel *E. Çiğdem Altunok*	**Discussion (Large Group)** Overview *Erdem Söztutar*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**		
17.00-17.50	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**	**Discussion (Large Group)** Overview *Erdem Söztutar*			

COMMITTEE V - ENERGY AND METABOLISM
VI. WEEK / 03-07 June 2019

	Monday 03-June-2019	Tuesday 04-June-2019	Wednesday 05-June-2019	Thursday 06-June-2019	Friday 07-June-2019
09.00- 09.50	Independent Learning	Independent Learning	RELIGIOUS HOLIDAY	RELIGIOUS HOLIDAY	RELIGIOUS HOLIDAY
10.00- 10.50					
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break	Lunch Break			
14.00- 14.50	Independent Learning	RELIGIOUS HOLIDAY			
15.00- 15.50					
16.00- 16.50					
17.00-17.50					

COMMITTEE V - ENERGY AND METABOLISM
VII. WEEK / 10-14 June 2019

<table>
<tr><th></th><th>Monday
10-June-2019</th><th>Tuesday
11-June-2019</th><th>Wednesday
12-June-2019</th><th>Thursday
13-June-2019</th><th>Friday
14-June-2019</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="3">Independent Learning</td><td>Independent Learning</td><td rowspan="3">Independent Learning</td><td rowspan="3">Independent Learning</td><td>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Assessment Session
Anatomy
(Practical Exam)</td><td rowspan="3">Assessment Session
Committee V
(MCQ)</td></tr>
<tr><td>11.00- 11.50</td></tr>
<tr><td>12.00- 12.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>13.00- 13.50</td><td rowspan="2">Assessment Session
Biostatistics
(Writing Exam-MEQ)</td><td rowspan="2">Assessment Session
Histology
(Practical Exam)</td><td rowspan="3">Independent Learning</td><td rowspan="3">Independent Learning</td><td>Program Evaluation Session
Review of the Exam Questions, Evaluation of the Committee V Program
Head of the Committee</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="3">Independent Learning</td></tr>
<tr><td>15.00- 15.50</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Independent Learning</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td></tr>
</table>

STUDENT COUNSELING

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

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

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

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

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

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

The expectations from the student are as follows:

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

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

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

LIST OF STUDENT COUNSELING- PHASE I

	NO	NAME	SURNAME	COUNSELOR
1	20180800116	İLAYDA	AGAR	PROF. DR. TURGAY İSBİR
2	20180800043	ECE	AKÇAY	PROF. DR. TURGAY İSBİR
3	20180800079	ASYA	AKOVA	PROF. DR. ECE GENÇ
4	20180800121	MAHMOUD	ALJOBBEH	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
5	20170800073	BARTU	ALKIŞER	PROF. DR. TURGAY İSBİR
6	20180800036	EKİN SU	ALPSAR	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
7	20180800125	MARYAM	AL-RUBAYE	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
8	20180800126	MOHAMMED AHMED FADHIL	AL-RUBAYE	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
9	20170800031	SÜMEYYE	ALTUNEL	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
10	20180800114	FURKAN	ARIK	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
11	20180800066	ÇAĞLA	ATAY	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
12	20180800005	MELİSA	AYDEMİR	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
13	20180800040	NURİ EFE	AYDIN	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
14	20180800127	LIAN	AZZAWI	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
15	20180800033	EZGİ	BARIŞ	DOÇ. DR. GÜLDAL İZBIRAK
16	20180800038	EKİN BORA	BAŞARAN	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
17	20170800076	YIPAR DİLA	BAYKAN	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
18	20180800061	ELİF ECE	BIYIKLI	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
19	20180800105	LARA	BİLİCİ	PROF. DR. ECE GENÇ
20	20180800115	BAŞAK	BÜYÜKKÜRKÇÜ	DOÇ. DR. MEHTAP KAÇAR
21	20170800103	SUMEYYE	CAM	PROF. DR. EROL SEZER
22	20180800039	SENA	CENGİZ	DR. ÖĞR. ÜYESİ BİLGE GÜVENÇ TUNA
23	20180800069	İREM	ÇIRPICI	DR. ÖĞR. ÜYESİ BİLGE GÜVENÇ TUNA
24	20170800090	BENGİSU	ÇÖKELEK	DR. ÖĞR. ÜYESİ BİLGE GÜVENÇ TUNA
25	20180800101	TOLGA	ÇÖKMEZ	DOÇ. DR. DENİZ KIRAÇ
26	20180800045	İREM	DALKIRAN	DOÇ. DR. DENİZ KIRAÇ
27	20180800084	ULAŞ BEJAN	DEMİR	DR. ÖĞR. ÜYESİ ALEV CUMBUL
28	20180800068	CANBERK	DEMİRBEL	DR. ÖĞR. ÜYESİ ALEV CUMBUL
29	20180800110	AHMET	DEMİREZ	DR. ÖĞR. ÜYESİ ALEV CUMBUL
30	20180800057	ORKUN	DEMİROK	DR. ÖĞR. ÜYESİ SERDAR ÖZDEMİR
32	20180800063	AYÇA ZEYNEP	DOĞAN	DOÇ. DR. AYLİN YABA UÇAR
31	20180800044	EMİR	DOĞAN	DR. ÖĞR. ÜYESİ SERDAR ÖZDEMİR
33	20170800096	ROZERİN EZGİ	DUMAN	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
34	20170800098	MUHAMMET ALİ	EKER	DOÇ. DR. MEHTAP KAÇAR
35	20180800030	JAMAL	ELMONTASER	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
36	20180800073	ÖMER	EMANET	PROF. DR. RECEP EROL SEZER
37	20170800020	ATABERK	ERDEM	PROF. DR. RECEP EROL SEZER
38	20180800083	EMRE	ERDEN	PROF. DR. RECEP EROL SEZER
39	20180800035	RECEP	ERDOĞAN	DOÇ. DR. DENİZ KIRAÇ
40	20180800064	BANU	ERKAL	DOÇ. DR. ÇAĞATAY ACUNER
41	20180800070	OZAN	ERTAM	DOÇ. DR. ÇAĞATAY ACUNER
42	20180800046	EDA	ERTAV	DR. ÖĞR. ÜYESİ ALEV CUMBUL
43	20170800115	NAGİHAN	ESİM	DR. ÖĞR. ÜYESİ ALEV CUMBUL
44	20170800075	OĞUZ	ESKİHELLAÇ	DOÇ. DR. SONER DOĞAN
45	20180800100	TUANA	GAYRET	DOÇ. DR. SONER DOĞAN
46	20170800034	CEMİL CEM	GİRİŞKEN	DOÇ. DR. SONER DOĞAN
47	20170800023	GAYE	GÜNER	DR. ÖĞR. ÜYESİ BİLGE GÜVENÇ TUNA
48	20180800041	MELTEM ÖZGE	GÜNEŞ	DR. ÖĞR. ÜYESİ BİLGE GÜVENÇ TUNA
49	20180800118	DALYA	GÜRKAN	DOÇ. DR. BURCU GEMİCİ
50	20180800076	EGE	GÜRLÜ	DOÇ. DR. BURCU GEMİCİ
51	20180800089	DENİZER	GÜVENÇ	DOÇ. DR. AYLİN YABA UÇAR
52	20180800008	AHMAD HANI KHAMIS	HAMAD	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
53	20180800002	AHMET	HATİPOĞLU	DOÇ. DR. AYLİN YABA UÇAR
54	20180800071	ATAHAN	İNAN	DR. ÖĞR. ÜYESİ ERDEM SÖZTUTAR
55	20180800026	MUHAMMAD NASHAT SALIM	JALLAD	DR. ÖĞR. ÜYESİ ARZU AKALIN

56	20170800018	BARKIN	KAHVECİGİL	DR. ÖĞR. ÜYESİ ERDEM SÖZTUTAR
57	20170800077	FATMANUR İREM	KANDEMİR	DR. ÖĞR. ÜYESİ ERDEM SÖZTUTAR
58	20180800099	DENİZ BADE	KARAKAŞ	PROF. DR. ECE GENÇ
59	20180800088	İBRAHİM GÖKTUĞ	KARATAŞ	PROF. DR. İNCİ ÖZDEN
60	20180800026	OSAMA	KARIMA	DR. ÖĞR. ÜYESİ ÇİĞDEM ALTUNOK
61	20170800101	AYŞE IRMAK	KARUN	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
62	20170800099	İREMNUR	KAVAN	PROF. DR. ECE GENÇ
63	20180800097	EFE ERALP	KAYA	DR. ÖĞR. ÜYESİ HALE ARIK TAŞYIKAN
64	20180800007	ALAA AHMED METWALLY	KHATTAB	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
65	20180800109	KAAN ARDA	KÖSE	DR. ÖĞR. ÜYESİ HALE ARIK TAŞYIKAN
66	20180800056	ZEYNEP	LÜMALI	DR. ÖĞR. ÜYESİ HALE ARIK TAŞYIKAN
67	20180800017	HAJER	MAZAGRI	PROF. DR. İNCİ ÖZDEN
68	20180800104	AYŞE BUSE	MELİK	DR. ÖĞR. ÜYESİ HALE ARIK TAŞYIKAN
69	20180800053	YAĞMUR	MERT	DR. ÖĞR. ÜYESİ HALE ARIK TAŞYIKAN
70	20180800048	ELİF	MERT	DR. ÖĞR. ÜYESİ HALE ARIK TAŞYIKAN
71	20180800074	ELVİN İZEL	MISIRLIOĞLU	DOÇ. DR. AYLİN YABA UÇAR
72	20180800128	HAMAD GHAZI	MOHAMED	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
73	20170800114	NEDA	MUMCU	DR. ÖĞR. ÜYESİ SERDAR ÖZDEMİR
74	20180800001	NEGAR	NAGHSHHEL MAST	DR. ÖĞR. ÜYESİ MOHAMMED ELSAYED MOHAMMED ELGAZZAR
75	20180800059	BÜŞRA	NECCAR	PROF. DR. RECEP EROL SEZER
76	20180800013	DİLŞAT	ONAY	PROF. DR. RECEP EROL SEZER
77	20180800120	TUĞBA	OZEDIRNE	DOÇ. DR. DENİZ KIRAÇ
78	20180800098	İBRAHİM NEHAR	ÖNEL	DOÇ. DR. DENİZ KIRAÇ
79	20160800102	TALHA	ÖNER	DR. ÖĞR. ÜYESİ BİLGE GÜVENÇ TUNA
80	20180800058	İZEM	ÖNGÜNŞEN	DR. ÖĞR. ÜYESİ ÇİĞDEM ALTUNOK
81	20180800004	DENİZ	ÖZALP	DR. ÖĞR. ÜYESİ ÇİĞDEM ALTUNOK
82	20170800079	IŞIL SERAY	ÖZDEŞ	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
83	20180800052	ÖZLEM	ÖZDİREK	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
84	20180800072	ADİL ONUR	POLAT	DR. ÖĞR. ÜYESİ SERDAR ÖZDEMİR
85	20180800055	ÖYKÜ	PÜSKÜLLÜOĞLU	DR. ÖĞR. ÜYESİ SERDAR ÖZDEMİR
86	20180800078	ALARA YAĞMUR	RADAVUŞ	DR. ÖĞR. ÜYESİ MEHTAP KAÇAR
87	20170800042	ÖZGE	SABUNCU	DR. ÖĞR. ÜYESİ MEHTAP KAÇAR
88	20180800092	UYGAR	SARISALTIK	DOÇ. DR. ÖZLEM TANRIÖVER
89	20170800021	OZAN	SAVAŞ	PROF. DR. ECE GENÇ
90	20180800096	ECE	SEÇEN	DOÇ. DR. ÇAĞATAY ACUNER
91	20180800113	İNCİ	SEVDİK	DR. ÖĞR. ÜYESİ ÇİĞDEM ALTUNOK
92	20180800123	HADI	SLAIMAN	DR. ÖĞR. ÜYESİ ÇİĞDEM ALTUNOK
93	20180800112	FEYZAN	SÖYLEMEZ	DR. ÖĞR. ÜYESİ ÇİĞDEM ALTUNOK
94	20170800008	RANA ZEYNEP	SUNER	DR. ÖĞR. ÜYESİ ÇİĞDEM ALTUNOK
95	20170800097	İBRAHİM ONUR	ŞAHİN	DR. ÖĞR. ÜYESİ ÇİĞDEM ALTUNOK
96	20170800052	ELİFSU	TÜRKMEN	DR. ÖĞR. ÜYESİ ÇİĞDEM ALTUNOK
97	20170800104	CAN DOĞU	USANMAZ	DR. ÖĞR. ÜYESİ HALE ARIK TAŞYIKAN
98	20180800029	KAYRA BORA	UZASLAN	DOÇ. DR. SONER DOĞAN
99	20180800010	BİLGE KAAN	ÜLGER	DOÇ. DR. SONER DOĞAN
100	20180800075	MELİSA	ÜNGÖR	DOÇ. DR. SONER DOĞAN
101	20180800009	AYAH	WAZZAN	DOÇ. DR. ÖZLEM TANRIÖVER
102	20170800088	TARIK BAHADIR	YAVUZ	DR. ÖĞR. ÜYESİ ALEV CUMBUL
103	20180800016	SELENA	YILDIZ	DR. ÖĞR. ÜYESİ ALEV CUMBUL
104	20180800042	İLKER	YILMAZ	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR
105	20180800060	HELİN	YİĞİT	DOÇ. DR. BURCU GEMİCİ
106	20170800033	MERT	YÖNEY	DR. ÖĞR. ÜYESİ AYLİN YABA UÇAR
107	20180800077	ALADAĞ TOYKOÇ	YÜKSEL	DR. ÖĞR. ÜYESİ AYLİN YABA UÇAR
108	20170800027	ELİF	YÜKSEL	DOÇ. DR. DENİZ KIRAÇ
109	20160800004	MARIEH	ZAVODI	DR. ÖĞR. ÜYESİ ARZU AKALIN
110	20180800003	İSMAİL KAAN	ZEYTINOGLU	DR. ÖĞR. ÜYESİ EMİNE NUR ÖZDAMAR

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Tel: 0216 578 06 86

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