

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE I
ACADEMIC PROGRAM BOOK
2021 - 2022

Student's;

Name :

Nr :

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE I

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(TEACHING YEAR 2021–2022)

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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*”

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AIM

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

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

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

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

PODG.1. Basic Professional Competencies

POD.1.1. Clinical Competencies

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

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

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

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

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

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

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

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

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

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

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

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

POD.1.2. Competencies related to Communication

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

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

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

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

POD.1.3. Competencies Related to Leadership and Management

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

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

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

POD.1.4. Competencies related to Health Advocacy

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

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

POD.1.5. Competencies related to Research

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

POD.1.6. Competencies related to Health Education and Counseling

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

PODG.2. Professional Values and Perspectives

POD.2.1. Competencies related to Law and Legal Regulations

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

POD.2.2. Competencies Related to Ethical Aspects of Medicine

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

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

POD.2.3. Competencies Related to Social and Behavioral Sciences

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

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

POD.2.4. Competencies Related to Social Awareness and Participation

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

POD.2.5. Competencies Related to Professional Attitudes and Behaviors

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

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

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

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

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

PODG.3. Personal Development and Values

POD.3.1. Competencies Related to Lifelong Learning

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

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

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

POD.3.2. Competencies Related to Career Management

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

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

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

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

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

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

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

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 the human body such as macromolecule, organelle, cell, tissue, organ systems and finally introduction to pathogenesis.

- Phase I: Normal structure and function of the 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 the 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.

CURRICULUM OF PHASE I 2021-2022

CODE		FIRST YEAR	W	T	A	L	Y	E
MED	104	Basic Medical Sciences I	39					40
MED	102	Introduction to Clinical Practice I	39					5
MED	103	Anatomical Drawing	28				3	2
MED	XXX	Free Elective Course ¹ (SS)	14					2
HUM	103	Humanities ² (FS)	14				2	3
TKL	201	Turkish Language I ² (FS)	14					2
TKL	202	Turkish Language II ² (SS)	14					2
HTR	301	History of Turkish Revolution I ² (FS)	14					2
HTR	302	History of Turkish Revolution II ² (SS)	14					2
Total Credits								60

The curriculum applies to 2021-2022 educational term. The duration of educational term for each year is shown in the table as total number of weeks. ECTS credits are the university credits of the courses in Yeditepe University Faculty of Medicine Undergraduate Medical Education Program. 1 ECTS=30 hours of workload including independent study hours per average student. GPA and cGPA calculations are based on ECTS credits.

¹Free Elective Courses. At least one free elective course offered by the Faculty of Medicine or other faculties must be selected in an academic year. Free elective courses provided by Faculty of Medicine in the first three years: MED 611 Medical Anthropology, MED 612 Creative Drama I, MED 613 Medical Humanities, MED 614 Personal Trademark Development, MED 615 Innovation Management, MED 616 Medical Management and New Services Design Skills, MED 619 Entrepreneurship and Storytelling Techniques for Business Purposes, MED 620 Art, Culture and Life Styles, MED 621 Epidemiological Research and Evidence Based Medicine, MED 622 Applications of Economics in Health Care, MED 623 Visual Presentation in Medicine, MED 627 Presentation of Medicine on Media, MED 628 Healthy Living, MED 629 Music and Medicine, MED 630 Health Law, MED 631 Creative Drama II, MED 632 Music Appreciation, MED 633 Communication with Hearing Impaired Patients in Turkish Sign Language, MED 634 Case Based Forensic Science,

²Common Courses. These courses are obligatory in all programs of the university. The university credit values of the common courses are as stated by the University Senate. Except for HUM 103, these courses are not to be included in the GPA and cGPA calculations. Courses on Turkish Language and Culture for Foreigners (AFYA). Based on the result of Turkish Language Proficiency Exam, instead of TKL 201 (FS) and TKL 202 (SS) courses, international students will be requested to take the required ones from the AFYA 101 (FS), AFYA 102 (SS), AFYA 201 (FS) and AFYA 202 (SS) courses, designed for them. Each of these courses have credits as Y=3 and E=5. These courses are not to be included in the GPA and cGPA calculations.

³Area Elective Courses. Only one of the provided courses can be elected in the sixth educational year. MED 650 Emergency Medicine, MED 651 Internal Medicine, MED 652 Child Health And Pediatrics, MED 653 Obstetrics and Gynecology, MED 654 General Surgery, MED 655 Cardiology, MED 656 Cardiovascular Surgery, MED 657 Clinic Ethics, MED 658 Plastic and Reconstructive Surgery, MED 659 Public Health, MED 660 Thoracic Surgery, MED 661 Orthopedics and Traumatology, MED 662 Ophthalmology, MED 663 Dermatology, MED 664 Otorhinolaryngology, MED 665 Neurology, MED 666 Neurosurgery, MED 667 Urology, MED 668 Anesthesiology and Reanimation, MED 669 Pediatric Surgery, MED 670 Psychiatry, MED 671 Physical Medicine and Rehabilitation, MED 672 Radiation Oncology, MED 673 Clinical Pharmacology, MED 674 Infectious Diseases & Clinical Microbiology, MED 675 Radiology, MED 676 Nuclear Medicine, MED 677 Forensic Medicine, MED 678 Child Psychiatry, MED 679 Medical Genetics, MED 680 Medical Microbiology, MED 681 Pathology, MED 682 Medical Biochemistry.

T: Theoretical, A: Application , L: Laboratory, Y: Yeditepe University Credit, E: ECTS Credit	Minimum Degree Requirements	
NC: Non-Credit Course, FS: Fall Semester, SS: Spring Semester, W: Weeks.	ECTS	360
Approval Date:	Number of courses	53

* Please see https://med.yeditepe.edu.tr/sites/default/files/curriculum_2021-22_ytf_tr.docx for more information.

DESCRIPTION and CONTENT of PHASE I

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.
- 4.0 describe the stages of early embryonic development.
- 5.0 define four basic tissue types with cells and extracellular matrix.
- 6.0 define transport mechanism of biological membranes and its correlation with ATP usage
- 7.0 list the enzymes in blood coagulation
- 8.0 for enzymes;
 - 8.1. list basic properties and classes of enzymes,
 - 8.2. describe regulatory functions of enzymes,
 - 8.3. define the functions of enzymes in
- 9.0 define the link between the structure and function of tissues.
- 10.0 define muscular, vascular and nervous systems.
- 11.0 list basic properties and classes of microorganisms.
- 12.0 describe basic terms and concepts about first aid.
- 13.0 describe basic terms and concepts of communication skills.
- 14.0 describe basic terms and concepts about epidemiology.
- 15.0 list fundamental steps of a research study.
- 16.0 describe basic terms of concepts of biostatistics.
- 17.0 explain case scenario related basic medical science topics in a clinical context.
- 18.0 define basic elements of immune response
- 19.0 describe scientific study design and types of scientific research

SKILLS

- 1.0 apply first aid skills on anatomic model.
- 2.0 use communication skills in patient-doctor interviews in simulated settings.
- 3.0 Search scientific literature
- 4.0 apply basic laboratory techniques and use equipment.
- 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 write a scientific article review

ATTITUDES

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

AIM and LEARNING OBJECTIVES of 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.
- 3.0 explain the structure and function of the cell.
- 4.0 describe the stages of early embryonic development
- 5.0 define four basic tissue types with cells and extracellular matrix.
- 6.0 describe the ATP production by substrate level phosphorylation and oxidative phosphorylation
- 7.0 for carbohydrate metabolism;
 - 7.1. define the digestion and absorption of carbohydrates
 - 7.2. explain glucose and glycogen metabolism, apply blood.
- 8.0 define the link between the structure and function of tissues.
- 9.0 define muscular, vascular and nervous systems.
- 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
- 16.0 describe scientific study design and types of scientific research

SKILLS

- 1.0 apply basic laboratory techniques and use equipment.
- 2.0 present research data with tables, graphs and statistics.
- 3.0 use biopsychosocial approach on medical practice.
- 4.0 display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.
- 5.0 search scientific literature
- 6.0 write a scientific article review

ATTITUDES

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

DESCRIPTION of INTRODUCTION to CLINICAL PRACTICE I, II and III (ICP-I,-II,-III) (MED 102, 202, 303)

Due to the pandemic conditions ICP Program will be held online during the Fall Semester. Any changes in the program will be announced later.

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 has 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 the 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.

AIM and LEARNING OBJECTIVES of 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 hand washing, wearing sterile gloves and masks, measurement skills for basic vital findings and First Aid approaches and convey basic knowledge on communication and provide them the opportunity to experience patient-doctor encounters with simulated patients.

LEARNING OBJECTIVES

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

KNOWLEDGE

- 1.0 describe the techniques of hand washing, wearing sterile gloves and masks in accordance with the skill procedure.
- 2.0 describe basic terms and concepts of communication skills.
- 3.0 describe basic terms and concepts about first aid.
- 4.0 describe measurement of blood pressure with sphygmomanometer in adults in accordance with the skill procedure.

SKILLS

- 1.0 apply hand washing and wearing sterile gloves and masks skill completely in accordance with the skill procedure.
- 2.0 use communication skills in patient-doctor interviews.
- 3.0 apply first aid skills on anatomic model.
- 4.0 measure blood pressure by adult sphygmomanometer completely in accordance with the skill procedure.

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.

AIM and LEARNING OBJECTIVES of SCIENTIFIC RESEARCH and PROJECT COURSE - I

AIM

The aim of the Scientific Research And Project Course – I (SRPC) is to equip first year medical students to convey basic knowledge on scientific research and scientific methodology, to equip them with skills of searching scientific literature, to convey scientific study design and types of scientific research and basic knowledge of writing scientific projects.

LEARNING OBJECTIVES

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

KNOWLEDGE

- 1.0 explain basics of scientific research and scientific methodology
- 2.0 explain scientific plagiarism
- 3.0 describe scientific study design and types of scientific research
- 4.0 list the parts of an article (aim, hypothesis, abstract, introduction, methods, results, discussion, conclusions, references) and describe the methodology
- 5.0 describe how to prepare a project application
- 6.0 list funding options for scientific research

SKILLS

- 1.0 use literature science engines.
- 2.0 apply critical reading of scientific article
- 3.0 write a scientific article review

ASSESSMENT PROCEDURE:

For the assessments of the medical students for the SRPC, it is calculated out of 100 points; 50% will be graded on Assignment 1 (short article review) at the end of the first semester (**February 16, 2022**) and 50% will be graded on Assignment 2 (abstract) at the end of the second semester (**May 7, 2022**).

The constraints of the Assignments will be discussed in Small Group Study hours. During these sessions students can discuss related issues and ask questions.

The Assignments should be loaded to the turnitin program before due dates. (<https://www.turnitin.com>)

The Scientific Research and Projects Course has 3% contribution to Term Score (TS).

Please note that it is mandatory to attend Lectures and 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 turnitin uploads, there will be no acceptance of Assignments after the pre scheduled dates.

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.

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

Code	Subject		
MED 611	Medical Anthropology		
Goals	This course aims to provide, different perspectives of medical issues according to anthropological holistic approach for medical students. To present how social science interprets concepts of health, sickness, illness and disease. To show how culture bound symptoms can vary from culture to culture. To discuss all health problems are universal or cultural and how anthropology describes medical phenomenon by theoretically and methodologically.		
Content	To explain that what is anthropology? What is medical anthropology? What is the relationships between social science and medical? Why we need to be explain some concepts according to perspectives of medical anthropology? The meaning of symptoms: cultural bound symptoms, the personal and social meaning of illness, the stigma and shame of illness, What is the positioning of medical doctors for patients and caregivers; Doctor-Patient relations, patients associations, Biological Citizenship, Medicalized Selves, Biopolitics.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • emphasize cultural patterns of health. • investigate how human behavior that lives in a society is affected by own cultural health patterns. • discuss case studies about how cultural phenomenon affects human and public health. • understand importance of health that is constructed within culture structure by human society. • examine universal definition of health "state of complete physical, mental and social well-being" culturally. • realize interaction between items of cultural system and health system basically; get into the level of knowledge, skills and attitudes 		
Assessment		NUMBER	PERCENTAGE
	Assignments	1	100
	Total	1	100

Code	Subject		
MED 612	Creative Drama		
Goals	The aim of this course is the development of independence, creativity, self-control and problem-solving potential and the development of communication skills of medical students by using drama and creativity through improvisation of exercises		
Content	Discovering, learning and teaching approaches that are student-centered in a curiosity focused setting with various cognitive and active learning styles.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • show drama skills in vocational areas benefiting from access to creativity, collaboration and empathy which are the ways of learning through play and improvisation. 		
Assessment		NUMBER	PERCENTAGE
	Assignments	1	50
	Final Examination	1	50
	Total		100

Code	Subject		
MED 613	Medical Humanities		
Goals	This course aims to offer a wide variety of subjects related with art, history, cultural values, social movements, philosophy and many other areas. Main targets of this course are to improve Professionalism and Communication Skills and to support the students to develop an understanding about human and his interaction with universe.		
Content	Main concepts of professionalism such as altruism, accountability, excellence, duty, honor and integrity, respect for others and communication skills will be covered through the lectures of history of medicine in an anthropological concept, medicine in literature and visual arts, and cinemeducation.		
Course Learning Outcomes	<p>At the end of this course, the student should be able to</p> <ul style="list-style-type: none"> • gain an understanding of the history of medicine as one of social and cultural transformation in the conception of professionalism, disease and what constitutes illness and health through the centuries. • develop the skills to write an essay using primary source documents in the context of the history of medicine. • gain view of different reflections of medicine in literature and visual arts. • develop a point of view to use literature and visual arts as an imagination instrument of compassion, to tolerate ambiguity, to dwell in paradox, to consider multiple points of view. • develop better observational and interpretive skills, by using the power of visual arts to elicit an emotional response in the observer. • gain understanding about the main values and various dimensions of professionalism. • gain insight about his/her own values and develop humanistic values. • develop a deeper understanding of human being in various contexts. • gain understanding about the various factors which influence health in individual and community level. • gain understanding to use films as a comprehensive guide in medical practice. • reflect through films to improve their cognitive and emotional awareness. 		
Assessment		NUMBER	PERCENTAGE
	Assignments	1	50
	Final Examination	1	50
	Total		100

Code	Subject		
MED 614	Personal Trademark Development		
Goals	The aim of this course is to equip the students with skills in creating personal image for successful business life and with appropriate behavior in social platforms.		
Content	Business Etiquette creation techniques and personal image methodologies with case studies.		
Course Learning Outcomes	<p>At the end of this course, the student should be able to</p> <p>create personal brand for successful business life.</p> <p>use behavioral codes for business etiquette.</p>		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	25
	Presentations and Reports (Interactive Team Work, Social Skills Development, based on subjects studied during classes and applications of them on MED areas & discussions after each presentation)	1	25
	Attendance (Showing interest to classes, performance during discussion times, performance during pair works, attending classes etc.)		5
	Quiz ((Short quizzes to keep students updated about lectures, prepare them to midterm & final, based on subjects studied in the class, Essay or MCQ)	3	5
	Final Exam (MCQ, Fill in the Blanks, T/F Questions, mostly based on case studies)	1	40
	Total		100

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

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

Code	Subject		
MED 617	Personal Brandmark Management		
Goals	The aim of this course is to teach brand management, healthcare marketing and to explain the healthcare services management.		
Content	Healthcare marketing, Characteristics of health professionals and healthcare consumers, Initial barriers to healthcare marketing, healthcare markets, healthcare consumers, consumer behavior, factors in health services utilization, population health paradigm and management., branding as a strategy, brand equity, brand reputation management, and crises communications, strategies for managing brand equity, rebranding and repositioning, health communication, public relations, ethical and social responsibilities of healthcare marketing management in organizations and society.		
Course Learning Outcomes	At the end of this course, students will be aware of the basic concepts and issues in healthcare marketing; appreciate the necessity of healthcare marketing; understand the main responsibilities, capabilities and skills of managers; comprehend the strategic nature of healthcare marketing as of unique attributes of healthcare markets; the population health paradigm; branding as a strategy; health communication; public relations and emphasize the ethical and social responsibilities of healthcare marketing management in organizations and society.		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam	1	40
	Final Exam	1	60
	Total		100

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

Code	Subject		
MED 620	Art, Culture and Life Styles		
Goals	Healthcare members will have high level social status for their business life; and will join several international conferences. This course aims to develop their social and intellectual skills to make them global citizens with art, culture, fashion and life style knowledge.		
Content	Life Style Coaching for participants, Cultural Festivals Through Europe, Art Exhibitions and Movements, Sportive Life Coaching.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • develop intellectual wealth and cultural knowledge. • change their life styles for better perspective. • increase quality of life. • establish work-life balance. 		
Assessment		NUMBER	PERCENTAGE
	Midterm Exam	1	25
	Assignments (Homework)	1	25
	Evaluation of Group Presentations	1	5
	Final Exam	1	45
	Total		100

Code	Subject		
MED 621	Epidemiological Research and Evidence Based Medicine		
Goals	The aim is to provide understanding of epidemiological language and terminology by reading, examining and discussing various types of epidemiological research papers and to develop the desire and enthusiasm for epidemiological studies.		
Content	Different sessions for each type of epidemiological research will be held. The selected research types are case report, cross-sectional, case- control, cohort study, and randomized controlled trial.		
Course Learning Outcomes	At the end of this course, the student should be able to 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 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	<p>At the end of this course, the student should be able to</p> <ul style="list-style-type: none"> • 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	<p>At the end of this course, the student should be able to</p> <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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

Code	Subject		
MED 632	Music Appreciation		
Goals	This course aims to clarify the structures underlying western classical music in order to understand and appreciate it consciously while considering a historical perspective. Furthermore it will enable the student to understand that it is the foundation of every genre (pop, rap, rock etc.) in western music culture.		
Content	The evolution of music starting as of medieval times, the birth of new musical rules and genres in the Renaissance and the Age of Enlightenment which in turn redefines the different usages of music and lies the foundation of modern compositional rules. The reflection of those in music genres of today.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • define music's founding elements • explain the structural evolution of music within time • explain what the brain perceives under different conditions 		
Assessment		NUMBER	PERCENTAGE
	Midterm	1	25
	Assignments	1	25
	Final Examination	1	50
	Total		100

Code	Subject		
MED 633	Communication with Hearing Impaired Patients in Turkish Sign Language		
Goals	The aim of this course is to convey to the students sign language skills and basic vocabulary in order to enable them to communicate with hearing impaired patients.		
Content	Short history of sign language, basic vocabulary, words, terminology and simple sentence building skills regarding patient doctor interview.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • tell the history of sign language • show the basic words in sign language • conduct patient doctor interview in sign language • understand the health problem of the hearing impaired patient • give information about the treatment in sign language • build sentences using basic vocabulary in sign language • develop personal characteristics such as compassion, tolerance for diversity and open mindedness • improve body language • gain understanding about the various factors which influence health in individual and community level 		
Assessment		NUMBER	PERCENTAGE
	Midterm	1	40
	Final Examination	1	60
	Total		100

Code	Subject		
MED 634	Case Based Forensic Sciences		
Goals	This course aims to increase the awareness of students about forensic cases by presenting them as real case presentations through forensic sciences, where some of the patients that they will examine routinely in their professional lives are forensic cases.		
Content	In each lecture, brief introduction information about one of the basic forensic sciences will be given, and with the help of this forensic science, how the case is elucidated and how the process is managed, will be explained in the lectures.		
Course Learning Outcomes	<p>At the end of this course, the student should be able to</p> <ul style="list-style-type: none"> • give preliminary information about what the forensic sciences are, and their relationship with medicine and each other. • give examples an idea about the types of forensic cases they may encounter in their professional routine. • gain the awareness that every patient that they examine can turn into a forensic case. • explain the liability of healthcare professionals against forensic cases and what kind of problems both patients and healthcare professionals may encounter if they are omitted. • give preliminary information about the management process of the forensic case. • explain the importance of the holistic approach in the management of forensic cases • explain the importance of professionalization and coordination in forensic science. 		
Assessment		NUMBER	PERCENTAGE
	Assignments	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

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 with 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 with 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 the learning process all relevant points should be written on the board by the scribe. The board should be used as below (with examples):

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

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

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

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

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

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

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

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

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

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

Other benefits of PBL that you gain are to:

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

Assessment: Your participation and contributions to the sessions will be assessed by your tutor. This will NOT be an 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	
<ul style="list-style-type: none"> Starts discussion 							

<ul style="list-style-type: none"> Contributes with valid questions and ideas 							
<ul style="list-style-type: none"> Balances listening and speaking roles 							
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Determines valid learning issues 							
<ul style="list-style-type: none"> Finds valid sources 							
<ul style="list-style-type: none"> Makes independent research on learning issues 							
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Selects data valid for discussion and presentation 							
<ul style="list-style-type: none"> Expresses ideas and knowledge clearly and in an understandable way 							
<ul style="list-style-type: none"> Draws figures, diagrams clearly and in an understandable way 							
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Generates hypotheses independently 							
<ul style="list-style-type: none"> Reviews hypotheses critically 							
<ul style="list-style-type: none"> Integrates basic science and clinical concepts 							
<ul style="list-style-type: none"> 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	
• Is sensitive to psychosocial factors affecting patients							
• Treats all group members as colleagues							
• Accepts feedback properly							
• Provides proper feedback to group members							
Total Score of the Student ◆							

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

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

Online PBL First session flow
• Introducing yourselves (for the first session of the term)
• Determination of group rules (for the first session of the term) (Google Jamboard will be used.)
• Introducing the PBL Student Assessment Form to the students (for the first session of the semester) (It will be shown to the students by screen sharing by the tutor)
• Warming Game
• Reader and writer selection
• Reading the scenario step by step (The scenario will be displayed to the students by sharing the screen by the instructor.) (The next page will not be shared until the previous page is read and the related questions are answered by the students.) (The pages of the scenario will be shared sequentially in the Google Classroom as PDF.)

<ul style="list-style-type: none"> • Discussion (<i>Writing hypotheses on Google Jamboard, bringing preliminary information to learning environment, reviewing hypotheses, etc.</i>)
<ul style="list-style-type: none"> • The tutor asks questions that lead students to their learning goals during the discussion (<i>these are questions written in the instructor's copy of the scenario</i>).
<ul style="list-style-type: none"> • Setting learning goals by students (<i>learning goals will be written on Google Jamboard by the writer</i>)
<ul style="list-style-type: none"> • Feedback (<i>each group member's thoughts about themselves, the group, scenario, the instructor, PBL flow, PBL setting, etc.</i>)
<i>Online PBL Second session flow</i>
<ul style="list-style-type: none"> • Warming Game
<ul style="list-style-type: none"> • Discussion of the learning objectives determined in the previous session (<i>via the Google Jamboard where the learning objectives were written in the previous session</i>)
<ul style="list-style-type: none"> • Reader selection
<ul style="list-style-type: none"> • Reading the scenario (<i>The second session of the scenario will be screen shared and displayed to the students by the tutor.</i>)
<ul style="list-style-type: none"> • Discussing the psychosocial dimension of the case
<ul style="list-style-type: none"> • Filling out Tutor Evaluation Form by the students
<ul style="list-style-type: none"> • Feedback (<i>each group member's thoughts about themselves, the group, scenario, the instructor, PBL flow, PBL setting, etc.</i>)

AIM and LEARNING OBJECTIVES of 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 the human body.
- 3.0 to equip with skills of drawing bones and muscles in the human body.
- 4.0 to equip them with skills of visually explaining clinical conditions to patients.

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 a real axonometrical view under 120° angle based on frontal, horizontal and profile views of the human body.

SKILLS

- 1.0 draw frontal, horizontal and profile views of muscles in the human body.
- 2.0 draw frontal, horizontal and profile views of bones in the human body.
- 3.0 draw 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.

TURKISH LANGUAGE and CULTURE FOR FOREIGNERS I-II (AFYA 101-102)

Code	Subject		
AFYA 101	Turkish Language and Culture for Foreigners 1		
Goals	To provide the learners of Turkish Language with fundamentals of Turkish phonology , the basic grammatical structure of Turkish, certain skills necessary for basic communication, and the opportunity to explore Turkish culture		
Content	Practical knowledge of communication skills will be provided to the learners through communicative and authentic activities and materials reflecting the culture and the daily use of the language.		
Course Learning Outcomes	At the end of this course, the student should be able to <ul style="list-style-type: none"> • To be able to learn and use basic grammatical structure of Turkish • To be able to learn and use the fundamentals of Turkish phonology of Turkish • To be able to improve basic communication skills. • To be able to improve basic writing skills. • To be able to improve basic reading skills. 		
		NUMBER	PERCENTAGE
	Midterm	1	20
Assessment	Quiz	1	20
	Assignment	1	20
	Final	1	40
	Total		100

Code	Subject		
AFYA 102	Turkish Language and Culture for Foreigners 2		
Goals	To teach the basic grammatical structures of Turkish, tenses, suffixes and prefixes and certain language structures that will meet the needs of fluent communication and to provide an opportunity to get to know Turkish culture better.		
Content	Practical knowledge of communication skills will be provided to the learners through communicative and authentic activities and materials reflecting the culture and the daily use of the language.		
Course Learning Outcomes	At the end of this course, the student should be able to <ol style="list-style-type: none"> 1.0 To be able to learn and use basic grammatical structure of Turkish 2.0 To be able to learn and use the fundamentals of Turkish phonology of Turkish 3.0 To be able to improve basic communication skills. 4.0 To be able to improve basic writing skills. 5.0 To be able to improve basic reading skills. 		
		NUMBER	PERCENTAGE
	Midterm	1	20

Assessment	Quiz	1	20
	Assignment	1	20
	Final	1	40
	Total		100

SPECIFIC SESSIONS / PANELS

Introductory Session

Aim of the session:

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

Objectives of the Session:

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

Rules of the Session:

1. The session will be held in two types, conducted by Phase Coordinator and Committee Coordinator, respectively.
2. The first type will be held once in the first week of the educational phase. The second type will be held at the beginning of each committee.
3. Students should attend the session.

Implementation of the Session:

In the first type, Phase Coordinator will present brief information on the following topics:

- Organizational Chart of Yeditepe Medical Faculty Undergraduate Program in Medicine (YUFM/UG-ME), Work Descriptions and Introduction of Committees/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 60 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 (30 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.

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

Implementation:

Before the Session

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

During the Session

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

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

After the Session

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

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 achievement 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 the algorithm below.
2. All of the students will be required to fill out a form, which is a self-assessment form for 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 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 abbreviations that are shown below.

1.0. Exams:

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

2.0. Scores*:

- Committee Score (CS)
- Committees Mean Score (CMS)
- Introduction to Clinical Practice Score (ICPS)
- Anatomical Drawing Score (ADS)
- Common Compulsory Course Score (CCCSs)
- Elective Course Score (ECSs)
- Scientific Research and Project Course Score (SRPCS)
- 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, SRPCS
		SbMCQ: Scenario-based MCQs	CE, MTE, FE, ICE	CS, ICPS, FES, ICES
		EQ: Essay Questions	CE	CS
		FSAQ: Fill-in-the-Blank Short Answer Questions	MUE	CS
Competency-based Assessment	OSCE: Objective Structured Clinical Examination	OSCE Checklist		ICPS
	OSPE: Objective Structured Practical Examination	OSPE Checklist		CS

	LPE: Laboratory Practical Exam	LPE Checklist		CS
Performance– based Assessment	PWPE: Review Writing and Presenting Evaluation	PWPE Checklist		ECSs
	AID: Anatomical Images Drawing			ADS
	PBL-P: Evaluation of PBL Student's Performance	PBL Student Evaluation Form		CS

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	= (50% MTE _{ICP}) + (50% Final OSCE)
ADS	= (70% AID _{AD}) + (30% FE _{AD})
CCCSs	= Score information will be announced by Course Coordinator.
ECSs	= Score information is shown pages of Elective Courses in the APB.
SRPCS	= Score information is shown at the assessment page of Scientific Research and Projects
FES	= Final Exam Score
ICES	= Incomplete Exam Score
TS for students, <u>who are exempted</u> from FE	= 97% of CMS + 3% of SRPCS
TS for students, <u>who are not exempted</u> from FE	= 97% of (60% of CMS + 40% of FES or ICES) + 3% of SRPCS

Pass or Fail Calculations of the Courses
Basic Medical Sciences I (MED 104) <i>Pass; TS ≥ 60</i> <i>Fail; FES < 50 (<u>barrier point</u>), ICES < 50 (<u>barrier point</u>), or/and TS < 60</i> <i>The student is <u>exempted from FE</u>, if the CMS is ≥ 80 and all CSs are ≥ 60</i> <i>The FE and ICE <u>barrier point is not applied</u> to the students whose all CSs are ≥ 60</i>
Introduction to Clinical Practice I (MED 102) <i>Pass; ICPS ≥ 60</i> <i>Fail; ICPS < 60</i>
Anatomical Drawing (MED 103) <i>Pass; ADS ≥ 60</i> <i>Fail; ADS < 60</i>
Common Compulsory Courses (HUM 103, TKL 201, TKL 202, HTR 301, HTR 302, AFYA 101, AFYA 102) <i>Pass; CCCSs ≥ 50</i> <i>Fail; CCCSs < 50</i>
Elective Courses (MED 611, MED 612, MED 613, MED 614, MED 616, MED 619, MED 620, MED 621, MED 622, MED 623, MED 627, MED 628, MED 629, MED 630, MED 631, MED 32, MED 633, MED 634,)

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 consists 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 question. 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 similar conditions with OSCE.

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

Grades

A letter grade is given to the students as a success grade, from the numerical values of the grades given by the relevant teaching staff for each course they take, taking into account the practice, laboratory and similar studies in the semester and examinations and academic activities.

Grades and Letter grades are shown for MED coded courses* in the following table:

Grades	Letter Grades
90-100	AA
80-89	BA
70-79	BB
65-69	CB
60-64	CC
59 or less	FF (Fail in the context of "Pass or Fail Calculations of the Courses" table pp.41)
0	FA (Fail due to non attendance to the courses)

* Please see <https://med.yeditepe.edu.tr/tr/mezuniyet-oncesi-tip-egitimi> for more information.

EXAM RULES

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

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

WEEKLY COURSE SCHEDULE and LOCATIONS

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
09:00-09:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201&202 ONLINE	HUM 103 (FALL) ONLINE*
10:00-10:50	MED 104 (4E01)	MED 102** (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201&202 ONLINE	HUM 103 (FALL) ONLINE*
11:00-11:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		
12:00-12:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		
13:00-13:50	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	HTR 301 (FALL&SPRING)	HTR 301 (FALL&SPRING)*
14:00-14:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)	HTR 301 (FALL&SPRING)	HTR 301 (FALL&SPRING) *
15:00-15:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)		
16:00-16:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)	HUM 103 (FALL) ONLINE	
17:00-17:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)	HUM 103 (FALL) ONLINE ^a	
18:00-19:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
19:00-20:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
20:00-22:00					HUM 103 (FALL) ONLINE ^a		

* For international students ^a Some of the students will have different sections of HUM 103 Course (Friday or Saturday)

COURSE CODES	COURSES and LOCATIONS
MED 104	Basic Medical Sciences (4E01) or Laboratories*
MED 102	Introduction to Clinical Practice I (CSL)** or (4E01)***
MED 103	Anatomical Drawing (C 937) (ONLINE)
TKL 201 & 202	Turkish Language & Literature (ONLINE)
AFYA 101& 102	Turkish Language for International Students (ONLINE)
HTR 301 & 302	Atatürk's Principles & History of Modern Turkey (ONLINE)
HUM 103	Humanities (ONLINE)
MED 611-632	Elective Courses will be announced later

PBL	Problem Based Learning (ONLINE)
4E01	Faculty of Medicine Building , 4th Floor
C 937	Faculty of Medicine Building, 5 th 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 Medicine Building , 4th Floor 4E01 numbered classroom.

ACADEMIC CALENDAR 2021-2022

MED 104 BASIC MEDICAL SCIENCES I

COMMITTEE I

INTRODUCTION to BASIC MEDICAL SCIENCES

(7 Weeks)

Beginning of Committee	September 21, 2021	Wednesday
End of Committee	November 5, 2021	Friday
Committee Medical Biology Practical Exam	November 3, 2021	Wednesday
Committee Histology & Embryology Practical Exam	November 3, 2021	Wednesday
Committee Medical Anatomy Practical Exam	November 3, 2021	Wednesday
Committee Theoretical Exam	November 5, 2021	Friday

National Holiday **October 29, 2021** **Friday**

COMMITTEE II

CELL (8 Weeks)

Beginning of Committee	November 8, 2021	Monday
End of Committee	December 30, 2022	Thursday
Committee Anatomy Practical Exam	December 27, 2022	Monday
Committee Histology & Embryology Practical Exam	December 27, 2022	Monday
Committee Physiology Practical Exam	December 27, 2022	Monday
Committee Medical Biology Practical Exam	December 27, 2022	Monday
Committee Theoretical Exam	December 30, 2022	Thursday

Commemoration of Atatürk **November 10, 2021** **Wednesday**
New Year **January 01, 2022** **Saturday**

COMMITTEE III

TISSUE I (6 Weeks)

Beginning of Committee	January 3, 2022	Monday
End of Committee	February 25, 2022	Friday
Committee Histology & Embryology Practical Exam	February 23, 2022	Wednesday
Committee Physiology Practical Exam	February 23, 2022	Wednesday
Committee Anatomy Practical Exam	February 23, 2022	Wednesday
Committee Theoretical Exam	February 25, 2022	Friday

MIDTERM BREAK **January 24, 2022** **February 6, 2022**

COMMITTEE IV

TISSUE II (8 Weeks)

Beginning of Committee	February 28, 2022	Monday
End of Committee	April 22, 2022	Friday
Committee Anatomy Practical Exam	April 20, 2022	Wednesday
Committee Medical Biology Practical Exam	April 20, 2022	Wednesday
Committee Histology & Embryology Practical Exam	April 20, 2022	Wednesday
Committee Biostatistics Exam	April 20, 2022	Wednesday
Committee Theoretical Exam	April 21, 2022	Thursday

Physicians' Day	March 14, 2021	Monday
National Holiday	April 23, 2022	Saturday
COMMITTEE V		
ENERGY and METABOLISM (6 Weeks)		
Beginning of Committee	April 25, 2022	Monday
End of Committee	June 10, 2022	Friday
Committee Biostatistics Exam	June 8, 2022	Wednesday
Committee Histology & Embryology Practical Exam	June 8, 2022	Wednesday
Committee Anatomy Practical Exam	June 8, 2022	Wednesday
Committee Theoretical Exam	June 10, 2022	Friday
Labor's Day	May 1, 2022	Sunday
Religious Holiday	May 2-4, 2022	Monday-Wednesday
National Holiday	May 19, 2022	Thursday
Make-up Exam	June 13-25, 2022	Monday-Wednesday
Final Exam	June 28, 2022	Tuesday
Incomplete Exam	July 19, 2022	Tuesday
<u>ELECTIVE COURSES-Spring 2021-2022</u>		
Beginning of Elective Courses	February 11, 2022	Friday
End of Elective Courses	May 13, 2022	Friday
Midterm Exam	March 25, 2022	Friday
Make-up Exam	May 23-27, 2022	Monday-Friday
Final Exam	June 6-17, 2022	Monday-Friday
Incomplete Exam	June 20-July 1, 2022	Monday-Friday
<u>MED 102 INTRODUCTION to CLINICAL PRACTICE I (ICP-I)</u>		
Beginning of Course	September 28, 2021	Tuesday
End of Course	May 31, 2022	Tuesday
Midterm Exam	January 18-19, 2022	Tuesday-Wednesday
Make-up Exam	June 2-3, 2022	Thursday-Friday
Final Exam	June 13-15, 2022	Monday-Wednesday
Incomplete Exam	June 29, 2022	Wednesday
<u>MED 103 ANATOMICAL DRAWING</u>		
Beginning of Course	September 27, 2021	Tuesday
End of Course	May 26, 2022	Tuesday
First Midterm Exam	November 9, 2021	Tuesday
Second Midterm Exam	January 4, 2022	Tuesday
Third Midterm Exam	March 1, 2022	Tuesday
Fourth Midterm Exam	April 26, 2022	Tuesday

Final Exam	May 31, 2022	Tuesday
Incomplete Exam	June 14, 2022	Tuesday

TKL 201&202 TURKISH LANGUAGE & LITERATURE

Fall Final Exam	January 15, 2022	Saturday (10:00-18:00)
Spring Final Exam	May 29, 2022	Sunday (10:00-12:00)

HTR 301&302 ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY

Fall Final Exam	January 8, 2022	Saturday (10:00-18:00)
Spring Final Exam	May 21, 2022	Saturday (10:00-18:00)

HUM 103 HUMANITIES

Fall Final Exam	January 8, 2022	Saturday (14:00-16:00)
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COORDINATON COMMITTEE MEETINGS

1. Coordination Committee Meeting	October 19, 2021	Tuesday 15:00
2. Coordination Committee Meeting	January 11, 2022	Tuesday 15:00 (with student participation)
3. Coordination Committee Meeting	May 24, 2022	Tuesday 15:00 (with student participation)
4. Coordination Committee Meeting	July 5, 2022	Tuesday 15:00

RECOMMENDED TEXTBOOKS

NO	DEPARTMENT	TEXTBOOK	AUTHOR	PUBLISHER
1	ANATOMY	Gray's Anatomy for Students	R.L. Drake et al	Churchill Livingstone
		Hollinshead's Textbook of Anatomy	Cornelius Rosse & Penelope Gaddum-Rosse	Lippincott Raven
		A Textbook of Neuroanatomy	Maria Patestas & Leslie P. Gartner	Blackwell
2	BIOCHEMISTRY	Textbook of Biochemistry with Clinical Correlations	Thomas M. Devlin	Wiley-Liss Publishing Company
		Harper's Illustrated Biochemistry	Robert K. Murray et al	Mc-Graw-Hill Companies
		Lehninger Principles of Biochemistry	David L. Nelson, Michael M. Cox	W.H. Freeman Publishing Company
3	BIOPHYSICS	Biophysics: A Physiological Approach	Patrick F. Dillon	Cambridge University Press
		Physics in Biology and Medicine (4th edition)	Paul Davidovits	Elsevier
		Introductory Biophysics: Perspectives on the Living State	J.R. Claycomb, J.P. Tran	Jones & Bartlett Publishers
4	BIOSTATISTICS	Primer of Biostatistics	Stanton Glantz	Mc-Graw-Hill Companies
5	HISTOLOGY	Junqueira's Basic Histology: Text and Atlas 13 th Ed.	Anthony Mescher	Mc-Graw-Hill Companies
	EMBRYOLOGY	The Developing Human: Clinically Oriented Embryology, 10 th Ed.	Keith L. Moore & T. V. N. Persaud	Saunders
6	MEDICAL BIOLOGY	Molecular Biology of the Cell	Bruce Alberts et al	Garland Science
7	MEDICAL ETHICS	Clinical Bioethics: Theory and Practice in Medical-Ethical Decision Making	James E. Drane	Sheed & Ward
	MEDICAL HISTORY	Blood and Guts: A Short History of Medicine	Roy Porter	W. W. Norton & Company
8	MICROBIOLOGY	Medical Microbiology 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

MED 104-COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES**DISTRIBUTION of LECTURE HOURS****September 23, 2021 – November 05, 2021****COMMITTEE DURATION: 7 WEEKS**

MED 104	BASIC MEDICAL SCIENCES I DISCIPLINE	THEO.	PRAC.	TOTAL
	ANATOMY	9	3 Gr x 1 H	10
	BIOPHYSICS	16	0	16
	HISTOLOGY & EMBRYOLOGY	6	5 Gr x 1 H	7
	MEDICAL BIOLOGY	37	5 Gr x 1 H	38
	MEDICAL HISTORY & ETHICS	10	0	10
	MICROBIOLOGY	3	0	3
	ORGANIC CHEMISTRY	8	0	8
	PHYSIOLOGY	2	0	2
	SCIENTIFIC RESEARCH AND PROJECT I	2	4 Gr x 1 H	3
	PBL	4		4
	TOTAL	97	4	101
	INDEPENDENT LEARNING HOURS			57

OTHER COURSES

MED 102	ICP I	11	0	11
MED 103	ANATOMICAL DRAWING	0	14	14
HTR 301	ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	14	0	14
HUM 103	HUMANITIES	14	0	14
TKL 201	TURKISH LANGUAGE & LITERATURE	14	0	14
	TOTAL	147	22	171

Coordination Committee	Head	Turgay İSBİR, Prof.
	Secretary	Aylin YABA UÇAR, PhD, Assoc. Prof.
	Member	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	Member	Erdem SÖZTUTAR, MD Assist. Prof.

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES LECTURERS

MED 104- BASIC MEDICAL SCIENCES I	
DISCIPLINES	LECTURERS
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Assoc.Prof.
	Alev CUMBUL, PhD, Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Altay Burak DALAN, PhD, Prof.
	Soner DOĞAN, PhD, Prof.
	Deniz KIRAÇ, PhD, Assoc. Prof.
	Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU-LUTZ, MD, Assoc. Prof.
MEDICAL MICROBIOLOGY	Pınar ÇIRAGİL, MD, Prof.
ORGANIC CHEMISTRY	Esra ÖNEN BAYRAM, PhD, Assoc. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
	Mehtap KAÇAR, MD, PhD, Prof.
	Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof.
SCIENTIFIC RESEARCH and PROJECT I	Bayram YILMAZ, PhD, Prof.
	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
OTHER COURSES	
MED 102-INTRODUCTION to CLINICAL PRACTICE I (ICP- I)	Güldal İZBİRAK, MD, Prof.
	Özlem TANRIÖVER, MD, Prof.
	Arzu AKALIN, MD, Assist. Prof.
	Serdar Özdemir, MD, Assist. Prof.
MED 103- ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist. Prof.
HTR 301-ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Instructor
HUM 103-HUMANITIES	Instructor
TKL 201-TURKISH LANGUAGE & LITERATURE	Instructor
AFYA 101- TURKISH LANGUAGE	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;

KNOWLEDGE

- 1.0 define fundamental concepts of anatomy
- 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 define basic histological terminology and describe the main types of microscopes and their uses.
- 6.0 explain the histological methods.
- 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

SKILLS

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

ATTITUDES

- 20.0 value teamwork, interpersonal skills, and significance of psychosocial issues

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER / INSTRUCTOR	DISTRIBUTION of MCQs and SbMCQ			
			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. Yaba Uçar	7	3	3	13
		Dr. A. Cumbul				
7.0 – 11.0	MEDICAL BIOLOGY	Dr. T. İsbir	41	17	17	75
		Dr. S. Doğan				
		Dr. D. Yat Kırac				
		Dr. S. Güleç Yılmaz				
12.0, 13.0	MEDICAL HISTORY & ETHICS	Dr. E. Vatanoğlu Lutz	11	5	5	21
14.0	MEDICAL MICROBIOLOGY	Dr. P. Çiragil	3	1	1	5
15.0, 16.0	ORGANIC CHEMISTRY	Dr. E. Önen Bayram	9	4	4	17
17.0	PHYSIOLOGY	Dr. B. Yılmaz	2	1	1	4
TOTAL			100	42/200[#]	42/200[#]	184
LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS				
		LPE				
1.0, 2.0, SKILLS 18.0	ANATOMY	25				
5.0 , 6.0, SKILLS 18.0	HISTOLOGY & EMBRYOLOGY	25				
7.0 – 11.0, SKILLS 18.0	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

SbMCQ: Multiple Choice Questions which are based on a clinical, research or daily life scenario

LPE: Practical Lecture Evaluation

CE: Committee Exam

CS: Committee Score

FE: Final Exam

ICE: Incomplete Exam

**WEEKLY COURSE SCHEDULE
2021-2022 EDUCATION YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
09:00-09:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201 (FALL) & TKL 202 SPRING ONLINE	HUM 103 (FALL) ONLINE*
10:00-10:50	MED 104 (4E01)	MED 102** (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201 (FALL) & TKL 202 SPRING ONLINE	HUM 103 (FALL) ONLINE*
11:00-11:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		
12:00-12:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	LUNCH BREAK	LUNCH BREAK
13:00-13:50	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	HTR 301 (FALL&SPRING) ONLINE	HTR 301 (FALL&SPRING) ONLINE*
14:00-14:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)	HTR 301 (FALL&SPRING) ONLINE	HTR 301 (FALL&SPRING) ONLINE*
15:00-15:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)		
16:00-16:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)	HUM 103 (FALL) ONLINE	
17:00-17:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)	HUM 103 (FALL) ONLINE	
18:00-19:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
19:00-20:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
20:00-22:00					HUM 103 (FALL) ONLINE (2 hours)		

MED103 Anatomical Drawing Course will be held online on Tuesdays between 2-4 pm only for first 5 weeks of the education year. Beginning with the 6th week, the lectures will be held online on Tuesdays between 6-8 pm. * For international students ^a Some of the students will have different sections of HUM 103 Course (Friday or Saturday)

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
I. WEEK / 20 – 24 Sep 2021

	Monday 20-Sep-2021	Tuesday 21-Sep-2021	Wednesday 22-Sep-2021	Thursday 23-Sep-2021	Friday 24-Sep-2021
09.00- 09.50				Independent Learning	Independent Learning
10.00- 10.50				Introductory Session Introduction to Faculty <i>Dean</i>	
11.00- 11.50				Introductory Session Introduction to Committee I <i>Phase I Coordinator</i>	Lecture Introduction to Medical Biology <i>Turgay Isbir</i>
12.00- 12.50				Independent Learning	Lecture Origin of Life <i>Turgay Isbir</i>
13.00- 13.50				Lunch Break	Lunch Break
14.00- 14.50				Independent Learning	Lecture Introduction to Anatomy <i>Erdem Söztutar</i>
15.00- 15.50					Lecture Terminology in Anatomy <i>Erdem Söztutar</i>
16.00-16:50					Independent Learning
17.00-17:50					

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

II. WEEK / 27 Sep – 01 Oct 2021

	Monday 27-Sep-2021	Tuesday 28-Sep-2021	Wednesday 29-Sep-2021	Thursday 30-Sep-2021	Friday 01-Oct-2021
09.00- 09.50	Independent Learning	Lecture Cellular Organization of Life <i>Deniz Kırac</i>	Lecture Approaches to Medicine/ Medicine in Prehistoric Times <i>Elif Vatanoğlu Lutz</i>	Lecture Galen <i>Elif Vatanoğlu Lutz</i>	Independent Learning
10.00- 10.50	Lecture Origin of Life <i>Turgay İsbir</i>	Lecture Cellular Organization of Life <i>Deniz Kırac</i>	Lecture Medicine in Early Civilisations (Mesopotamia, Egypt) <i>Elif Vatanoğlu Lutz</i>	Lecture Indian and Chinese Medicine <i>Elif Vatanoğlu Lutz</i>	
11.00- 11.50	Lecture Introduction to Osteology <i>Erdem Söztutar</i>	Lecture / ICP I Introduction to ICP Programmes <i>Özlem Tanrıöver&Güldal İzbirak& Arzu Akalın</i>	Lecture Greek Medicine: From Mythology to Natural Philosophy <i>Elif Vatanoğlu Lutz</i>	Lecture Late Antiquity: Byzantine, Arab <i>Elif Vatanoğlu Lutz</i>	Lecture Methods of Histology; Tissue Processing <i>Aylin Yaba Uçar</i>
12.00- 12.50	Lecture Bones of the Soulder <i>Erdem Söztutar</i>	Lecture / ICP I Hand washing and wearing sterile gloves <i>Özlem Tanrıöver</i>	Lecture Hippocrates to Celsus <i>Elif Vatanoğlu Lutz</i>	Lecture Medicine in Abbasid Baghdad <i>Elif Vatanoğlu Lutz</i>	Lecture Methods of Histology; Immunohistochemistry <i>Aylin Yaba Uçar</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Lecture Introduction to Histology; Basic Terminology <i>Alev Cumbul</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Bones of the Upper Limb <i>Erdem Söztutar</i>	Lecture / Scientific Research and Project I What is Scientific Research and Scientific Methodology? <i>Bayram Yılmaz/ Bilge Güvenç Tuna</i>	Lecture Cytoskeleton <i>Deniz Kırac</i>
15.00- 15.50	Lecture Microscopy (Brightfield, Fluorescent, Confocal) <i>Alev Cumbul</i>		Lecture Bones of the Upper Limb <i>Erdem Söztutar</i>	Lecture / Scientific Research and Project I Searching Scientific Literature <i>Bayram Yılmaz/ Bilge Güvenç Tuna</i>	Lecture Cytoskeleton <i>Deniz Kırac</i>
16.00- 16.50	Lecture Cellular Organization of Life <i>Deniz Kırac</i>	Independent Learning	Lecture Cellular Organization of Life <i>Deniz Kırac</i>	Independent Learning	Independent Learning
17.00-17.50	Independent Learning		Lecture Cellular Organization of Life <i>Deniz Kırac</i>		

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
III. WEEK / 04 – 08 Oct 2021

	Monday 04-Oct-2021	Tuesday 05-Oct-2021		Wednesday 06-Oct-2021	Thursday 07-Oct-2021	Friday 08-Oct-2021
09.00- 09.50	Independent Learning	Independent Learning		Independent Learning	Independent Learning	Independent Learning
10.00- 10.50	Lecture Bones of the Pelvis <i>Erdem Söztutar</i>	ICP I/Clinical Skills Learning Hand washing and wearing sterile gloves Group A <i>Özlem Tanrıöver & Serdar Özdemir</i> (online)	Group B, C and D Independent Learning	Lecture Cell Signalling Events <i>Turgay Isbir</i>	Laboratory / Anatomy Bones of The Upper Limb <i>Erdem Söztutar</i> (Group 1)	Lecture Cell Adhesion <i>Seda Güleç Yılmaz</i>
11.00- 11.50	Independent Learning	ICP I/Clinical Skills Learning Hand washing and wearing sterile gloves Group A <i>Özlem Tanrıöver & Serdar Özdemir</i> (online)	Group B, C and D Independent Learning	Lecture Cell Signalling Events <i>Turgay Isbir</i>	Laboratory / Anatomy Bones of The Upper Limb <i>Erdem Söztutar</i> (Group 2)	Lecture Cell Signalling Events <i>Turgay Isbir</i>
12.00- 12.50	Lunch Break	ICP I/Clinical Skills Learning Hand washing and wearing sterile gloves Group A <i>Özlem Tanrıöver & Serdar Özdemir</i> (online)	Group B, C and D Independent Learning	Independent Learning	Laboratory / Anatomy Bones of The Upper Limb <i>Erdem Söztutar</i> (Group 3)	Lecture Cell Signalling Events <i>Turgay Isbir</i>
13.00- 13.50	Lecture Electron microscopy <i>Alev Cumbul</i>	Lunch Break		Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>		Lecture Cytoskeleton <i>Deniz Kırar</i>	Independent Learning	Independent Learning
15.00- 15.50				Lecture Cytoskeleton <i>Deniz Kırar</i>		Lecture The Time of Ibn Sina <i>Elif Vatanoğlu Lutz</i>
16.00- 16.50		Laboratory / Med. Biology Introduction to Medical Biology <i>Turgay Isbir</i>		Lecture Cell Adhesion <i>Seda Güleç Yılmaz</i>		Lecture Seljuk and Ottoman Medicine <i>Elif Vatanoğlu Lutz</i>
17.00-17.50				Lecture Cell Adhesion <i>Seda Güleç Yılmaz</i>		Independent Learning

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
IV. WEEK / 11– 15 Oct 2021

	Monday 11-Oct-2021	Tuesday 12-Oct-2021		Wednesday 13-Oct-2021	Thursday 14-Oct-2021	Friday 15-Oct-2021
09.00- 09.50	Independent Learning	Independent Learning		Independent Learning	Lecture Alkanes & Cycloalkanes <i>Esra Önen Bayram</i>	Independent Learning
10.00- 10.50	Lecture Intercellular Cell Signalling <i>Turgay İsbir</i>	ICP I/Clinical Skills Learning Hand washing and wearing sterile gloves Group B <i>Özlem Tanrıöver & Serdar Özdemir (online)</i>	Group A, C and D Independent Learning	Laboratory / Histology&Embryology Microscopy <i>Alev Cumbul & Aylin Yaba Uçar (Group 1)</i>	Lecture Alkanes & Cycloalkanes <i>Esra Önen Bayram</i>	
11.00- 11.50	Lecture Intercellular Cell Signalling <i>Turgay İsbir</i>	ICP I/Clinical Skills Learning Hand washing and wearing sterile gloves Group B <i>Özlem Tanrıöver & Serdar Özdemir (online)</i>	Group A, C and D Independent Learning	Laboratory / Histology&Embryology Microscopy <i>Alev Cumbul & Aylin Yaba Uçar (Group 2)</i>	Lecture Statics (Mass and Weight), Gravitation Law <i>Bilge Güvenç Tuna</i>	Lecture Center of Mass, Moment <i>Bilge Güvenç Tuna</i>
12.00- 12.50	Lecture Intercellular Cell Signalling <i>Turgay İsbir</i>	ICP I/Clinical Skills Learning Hand washing and wearing sterile gloves Group B <i>Özlem Tanrıöver & Serdar Özdemir (online)</i>	Scientific Research and Project I Small group studies Group C and D	Group A Independent Learning	Laboratory / Histology&Embryology Microscopy <i>Alev Cumbul & Aylin Yaba Uçar (Group 3)</i>	Lecture Newton's Laws of Motion <i>Bilge Güvenç Tuna</i>
13.00- 13.50	Lunch Break	Lunch Break		Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Lecture Introduction to Biophysics; Medicine, Science or Art <i>Bilge Güvenç Tuna</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>		Laboratory / Histology&Embryology Microscopy <i>Alev Cumbul & Aylin Yaba Uçar (Group 4)</i>	Independent Learning	Lecture Bones of the Pelvis & Lower Limb <i>Erdem Söztutar</i>
15.00- 15.50	Lecture Physical Measurements and Units, Unit Standards <i>Bilge Güvenç Tuna</i>			Laboratory / Histology&Embryology Microscopy <i>Alev Cumbul & Aylin Yaba Uçar (Group 5)</i>	Lecture History and Scope of Microbiology <i>Pınar Çiragil</i>	Lecture Bones of the Pelvis & Lower Limb <i>Erdem Söztutar</i>
16.00- 16.50	Lecture Acids & Bases <i>Esra Önen Bayram</i>	Independent Learning		Independent Learning	Lecture History and Scope of Microbiology <i>Pınar Çiragil</i>	Independent Learning
17.00-17.50	Lecture Acids & Bases <i>Esra Önen Bayram</i>				Lecture History and Scope of Microbiology <i>Pınar Çiragil</i>	

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
V. WEEK / 18– 22 Oct 2021

	Monday 18-Oct-2021	Tuesday 19-Oct-2021			Wednesday 20-Oct-2021	Thursday 21-Oct-2021	Friday 22-Oct-2021
09.00- 09.50	Lecture Reflection and Refraction of Light <i>Bilge Güvenç Tuna</i>	Independent Learning			Lecture Introduction to Physiology and Homeostasis <i>Bayram Yılmaz</i>	Independent Learning	PROBLEM BASED LEARNING ORIENTATION DAY
10.00- 10.50	Lecture Bio-optics: Vision and Eye, Refraction errors <i>Bilge Güvenç Tuna</i>	ICP I/Clinical Skills Learning Hand washing and wearing sterile gloves Group C <i>Arzu Akalın & Serdar Özdemir (online)</i>	Group A, B and D Independent Learning		Lecture Introduction to Physiology and Homeostasis <i>Bayram Yılmaz</i>	Laboratory / Anatomy Bones of the Lower Limb <i>Erdem Söztutar (Group 1)</i>	
11.00- 11.50	Lecture Programmed Cell Death <i>Soner Doğan</i>	ICP I/Clinical Skills Learning Hand washing and wearing sterile gloves Group C <i>Arzu Akalın & Serdar Özdemir (online)</i>	Group A, B and D Independent Learning		Lecture Optical Properties of Microscopes <i>Bilge Güvenç Tuna</i>	Laboratory / Anatomy Bones of the Lower Limb <i>Erdem Söztutar (Group 2)</i>	
12.00- 12.50	Lecture Programmed Cell Death <i>Soner Doğan</i>	CP I/Clinical Skills Learnin Hand washing and wearing sterile gloves Group C <i>Arzu Akalın & Serdar Özdemir (online)</i>	Scientific Research and Project I Small group studies Group A and B	Group D Independent Learning	Lecture Optical Properties of Microscopes <i>Bilge Güvenç Tuna</i>	Laboratory / Anatomy Bones of the Lower Limb <i>Erdem Söztutar (Group 3)</i>	Independent Learning
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Lecture Lenses; Lens-maker Equation <i>Bilge Güvenç Tuna</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>			Lecture Cell Cycle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) <i>Deniz Yat Kırac</i>	Independent Learning	PROBLEM BASED LEARNING ORIENTATION DAY
15.00- 15.50	Lecture Other Histologic Methods <i>Alev Cumbul</i>				Lecture Cell Cycle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) <i>Deniz Yat Kırac</i>		
16.00- 16.50	Lecture Alkenes <i>Esra Onen Bayram</i>	Introductory Session Introduction to Problem Based Learning (PBL) <i>PBL Coordinators</i>			Lecture Programmed Cell Death <i>Soner Doğan</i>		Independent Learning
17.00-17.50	Lecture Alkenes <i>Esra Onen Bayram</i>	Independent Learning			Lecture Programmed Cell Death <i>Soner Doğan</i>		

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VI. WEEK / 25 – 29 Oct 2021

VI. WEEK / 25 – 29 OCT 2021					
	Monday 25-Oct-2021	Tuesday 26-Oct-2021	Wednesday 27-Oct-2021	Thursday 28-Oct-2021	Friday” 29-Oct-2021
09.00- 09.50	Independent Learning	Lecture Biological Energy Systems Enzymes and Kinetics <i>Soner Doğan</i>	Independent Learning	Lecture Electric Charges, Electric Field <i>Bilge Güvenç Tuna</i>	REPUBLIC DAY NATIONAL HOLIDAY
10.00- 10.50	Lecture Optical Aberrations <i>Bilge Güvenç Tuna</i>	Lecture Biological Energy Systems Enzymes and Kinetics <i>Soner Doğan</i>	Laboratory / Med. Biology The Preparation of Aqueous Solutions <i>Seda Güleç Yılmaz</i> (Group 1)	Lecture Electrical Security Systems <i>Bilge Güvenç Tuna</i>	
11.00- 11.50	Lecture Cellular Homoestosis and Cell Growth <i>Deniz Kırac</i>	Lecture Benzene & Aromaticity <i>Esra Önen Bayram</i>	Laboratory / Med. Biology The Preparation of Aqueous Solutions <i>Seda Güleç Yılmaz</i> (Group 2)	Lecture Cell Regulation <i>Soner Doğan</i>	
12.00- 12.50	Lecture Cellular Homoestosis and Cell Growth <i>Deniz Kırac</i>	Lecture Benzene & Aromaticity <i>Esra Önen Bayram</i>	Laboratory / Med. Biology The Preparation of Aqueous Solutions <i>Seda Güleç Yılmaz</i> (Group 3)	Lecture Cell Regulation <i>Soner Doğan</i>	
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Lecture Cell Membrane <i>Soner Doğan</i>	Orientation for Committee Examinations	Laboratory / Med. Biology The Preparation of Aqueous Solutions <i>Seda Güleç Yılmaz</i> (Group 4)	Independent Learning	
15.00- 15.50	Lecture Cell Membrane <i>Soner Doğan</i>	Lecture Membrane Impedance, Bioelectrical Activity <i>Bilge Güvenç Tuna</i>	Laboratory / Med. Biology The Preparation of Aqueous Solutions <i>Seda Güleç Yılmaz</i> (Group 5)		
16.00- 16.50	Lecture Cell Membrane <i>Soner Doğan</i>	Lecture Electric Current Effects on Human Tissue <i>Bilge Güvenç Tuna</i>	Independent Learning		
17.00-17.50	Independent Learning				

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VII. WEEK / 01 – 05 Nov 2021

	Monday 01-Nov-2021	Tuesday 02-Nov-2021	Wednesday 03-Nov-2021	Thursday 04-Nov- 2021	Friday 05-Nov-2021
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50			Assessment Session Anatomy, Medical Biology, Histology & Embryology (Practical Exam)		Assessment Session Committee I (MCQ)
11.00- 11.50			Independent Learning		
12.00- 12.50					
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Program Evaluation Session Review of the Exam Questions Evaluation of the Committee I Program <i>Head of Committee</i>
15.00- 15.50					
16.00- 16.50					Independent Learning
17.00-17.50					

MED 104- COMMITTEE II - CELL
DISTRIBUTION of LECTURE HOURS
08 November 2021 – 31 December 2021
COMMITTEE DURATION: 8 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	TOTAL
	DISCIPLINE			
	ANATOMY	8	3Grx2H	10
	BIOPHYSICS	14	0	14
	HISTOLOGY and EMBRYOLOGY	14	5Grx2H	16
	MEDICAL BIOLOGY	33	5Grx4H	37
	MEDICAL HISTORY & ETHICS	6	0	6
	MEDICAL MICROBIOLOGY	8	0	8
	ORGANIC CHEMISTRY	10	0	10
	PHYSIOLOGY	6	10Grx1H	7
	SCIENTIFIC RESEARCH AND PROJECT I	0	4Grx1H	4
	PBL	6		6
	TOTAL	105	10	115
	INDEPENDENT HOURS			140

OTHER COURSES

MED 102	INTRODUCTION to CLINICAL PRACTICE I (ICP- I)	6	4Grx4H	0
MED 103	ANATOMICAL DRAWING	0	14	14
HTR 301	ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	14	0	14
HUM 103	HUMANITIES	14	0	14
TKL 201	TURKISH LANGUAGE & LITERATURE	14	0	14

	TOTAL	155	28	173
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Coordination Committee	Head	Deniz KIRAÇ, PhD, Assoc. Prof.
	Secretary	Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof
	Member	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
	Member	Alev CUMBUL, PhD, 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	Aylin YABA UÇAR, PhD, Assoc. Prof.
	Alev CUMBUL, PhD, Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Altay Burak DALAN, PhD, Prof.
	Soner DOĞAN, PhD, Prof.
	Deniz KIRAÇ, PhD, Assoc. Prof.
	Seda GÜLEÇ YILMAZ, PhD, Assoc. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU LUTZ, MD, Assoc. Prof.
MEDICAL MICROBIOLOGY	Pınar ÇIRAGİL, MD, Prof.
ORGANIC CHEMISTRY	Esra ÖNEN BAYRAM, Assoc. Prof. Dr.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
	Mehtap KAÇAR, MD, Prof.
	Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof.
SCIENTIFIC RESEARCH AND PROJECT I	Bayram YILMAZ, PhD, Prof.
	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
OTHER COURSES	
INTRODUCTION TO CLINICAL PRACTICE I (ICP-I)	Güldal İZBİRAK, MD, Prof.
	Özlem TANRIÖVER, MD, Prof.
	Arzu AKALIN, MD, Assist. Prof.
	Serdar ÖZDEMİR, MD, PhD, Assist. Prof.
ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist. Prof.
ATATÜRK'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;

KNOWLEDGE

- 1.0 define anatomical properties and clinical implications for the axial skeleton
- 2.0 explain basic terms and concepts about radiation biophysics, radiation safety and use of lasers.
- 3.0 list effects of radiation to the organism, its evaluation methods on the cellular basis and protection approaches.
- 4.0 define the histological characteristics of cell membrane and functions
- 5.0 define the cellular organelles and their functions
- 6.0 explain the cytoskeleton components and their functions
- 7.0 explain the histological characteristics of the cell nucleus
- 8.0 define the basic terms of embryology and list the difference between mitosis and meiosis
- 9.0 list the difference between male and female gametogenesis
- 10.0 explain the developmental events respectively from zygote to gastrulation
- 11.0 define cell membrane structures and explain membrane transport mechanisms
- 12.0 for distribution of substances in body fluids;
 - 12.1. define intra and extracellular fluid compartments
 - 12.2. explain the distribution and functions of electrolytes such as Na, K and Ca in body fluids
 - 12.3. define edema
- 13.0 define the term osmosis and explain the conditions required for osmosis to occur and explain the dynamics of osmotic pressure.
- 14.0 for transport of substances through the cell membrane;
 - 14.1. define diffusion and explain the factors that influence the rate of diffusion through cell membranes.
 - 14.2. define the characteristics of carrier-mediated transport.
 - 14.3 explain active transport mechanisms and describe how the Na⁺/K⁺ pump works
- 15.0 explain transfer mechanisms of cellular membrane and the connection of these mechanisms with material and energy requirements.
- 16.0 explain the roles of DNA and RNA in the maintenance of living organisms.
- 17.0 list the protein synthesis steps and define the mechanisms of regulation of gene expression.
- 18.0 define types of mutations and emphasize the importance of gene polymorphisms in human health and variability.
- 19.0 define plasmids and their use in molecular biology,
- 20.0 explain the identification methods of chromosomes and their use in medical clinics.
- 21.0 define the correlation of medicine, art and philosophy from prehistoric ages to date.
- 22.0 for microorganisms;
 - 22.1. classify
 - 22.2. list general characteristics.
- 23.0 define structure of organic compounds and their chemical reactions
- 24.0 define structures and reactions of macromolecules such as amino acid, protein, lipid and carbohydrate.
- 25.0 explain case scenario related basic medical science topics in a clinical context.

SKILLS

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

ATTITUDES

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

COMMITTEE II – CELL COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINES	LECTURER / INSTRUCTOR	DISTRIBUTION of MCQs and SbMCQ			
			CE	FE	ICE	TOTAL
1.0	ANATOMY	Dr. E. Söztutar	8	4	4	16
2.0, 3.0	BIOPHYSICS	Dr. B. G. Tuna	14	6	6	26
4.0 – 10.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar	14	6	6	26
		Dr. A. Cumbul				
11.0, 14.0	PHYSIOLOGY	Dr. B. Gemici Başol	6	3	3	12
15.0 -20.0	MEDICAL BIOLOGY	Dr. T. Isbir	33	15	15	63
		Dr. A. B Dalan				
		Dr. S. Doğan				
		Dr. D. Kırac				
		Dr. S. Güleç Yılmaz				
21.0	MEDICAL HISTORY& ETICS	Dr. E. Vatanoğlu Lutz	6	3	3	12
22.1, 22.2	MEDICAL MICROBIOLOGY	Dr. P. Çiragil	8	4	4	16
23.0, 24.0	ORGANIC CHEMISTRY	Dr. E. Önen Bayram	10	5	5	20
25.0	PBL	PBL Scenario	1	-	-	1
TOTAL			100	46/200[#]	46/200[#]	192
LEARNING OBJECTIVES		DISCIPLINE	DISTRIBUTION of LAB POINTS			
			LPE			
1.0, SKILLS 1.0		ANATOMY	20			
4.0-10.0 SKILLS 1.0		HISTOLOGY & EMBRYOLOGY	20			
15.0-20.0, SKILLS 1.0		MEDICAL BIOLOGY	40			
11.0-14.0, SKILLS 1.0		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

SbMCQ: Multiple Choice Questions which are based on a clinical, research or daily life scenario

LPE: Practical Lecture Evaluation

CE: Committee Exam

CS: Committee Score

FE: Final Exam

ICE: Incomplete Exam

PBL-P: Evaluation of PBL Student's Performance

**WEEKLY COMMON COMPULSORY and MED 103 COURSE SCHEDULE
2021-2022 EDUCATION YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
09:00-09:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201 (FALL) & TKL 202 SPRING ONLINE	HUM 103 (FALL) ONLINE*
10:00-10:50	MED 104 (4E01)	MED 102** (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201 (FALL) & TKL 202 SPRING ONLINE	HUM 103 (FALL) ONLINE*
11:00-11:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		
12:00-12:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	LUNCH BREAK	LUNCH BREAK
13:00-13:50	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	HTR 301 (FALL&SPRING) ONLINE	HTR 301 (FALL&SPRING) ONLINE*
14:00-14:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)	HTR 301 (FALL&SPRING) ONLINE	HTR 301 (FALL&SPRING) ONLINE*
15:00-15:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)		
16:00-16:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)	HUM 103 (FALL) ONLINE	
17:00-17:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)	HUM 103 (FALL) ONLINE	
18:00-19:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
19:00-20:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
20:00-22:00					HUM 103 (FALL) ONLINE (2 hours)		

MED103 Anatomical Drawing Course will be held online on Tuesdays between 6-8 pm * For international students * Some of the students will have different sections of HUM 103 Course (Friday or Saturday)

COMMITTEE II – CELL
I. WEEK / 08–12 Nov 2021

	Monday 08-Nov-2021	Tuesday 09-Nov-2021			Wednesday 10-Nov-2021	Thursday 11-Nov-2021	Friday 12-Nov-2021
09.00- 09.50	PBL Session	Independent Learning			Independent Learning	Lecture Cell Cycle and Mitosis- Meiosis <i>Deniz Kırış</i>	Independent Learning
10.00- 10.50		Clinical Skills Learning ICP I Hand washing and wearing sterile gloves Group D <i>Arzu Akalın & Serdar Özdemir</i>	Group B and C Independent Learning	Group B and C Independent Learning		Lecture Cell Cycle and Mitosis- Meiosis <i>Deniz Kırış</i>	Laboratory / Med. Biology Mitosis and Meiosis <i>Deniz Kırış</i> Group 2
11.00- 11.50		Clinical Skills Learning ICP I Hand washing and wearing sterile gloves Group D <i>Arzu Akalın & Serdar Özdemir</i>	Group B and C Independent Learning	Group B and C Independent Learning	Lecture Cell; General Specification <i>Alev Cumbul</i>	Lecture General Structures of Bacteria <i>Pınar Çiragil</i>	Laboratory / Med. Biology Mitosis and Meiosis <i>Deniz Kırış</i> Group 3
12.00- 12.50	Independent Learning	Clinical Skills Learning ICP I Hand washing and wearing sterile gloves Group D <i>Arzu Akalın & Serdar Özdemir</i>	Scientific Research and Project I Small group studies Group A	Group B and C Independent Learning	Lecture Cell Membrane Structure & Function <i>Alev Cumbul</i>	Lecture General Structures of Bacteria <i>Pınar Çiragil</i>	Laboratory / Med. Biology Mitosis and Meiosis <i>Deniz Kırış</i> Group 4
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Introductory Session Introduction to Committee II <i>Secretary of Committee II</i>	Seminar Dean of Students <i>Assoc. Prof. Bülent Kılıç</i>			Lecture Nuclear Stability <i>Bilge Güvenç Tuna</i>	Lecture Alcohols and Ethers <i>Esra Önen Bayram</i>	Laboratory / Med. Biology Mitosis and Meiosis <i>Deniz Kırış</i> Group 5
15.00- 15.50	Independent Learning	Independent Learning			Lecture Radiation Biophysics: Nucleus and Radioactivity <i>Bilge Güvenç Tuna</i>	Lecture Alcohols and Ethers <i>Esra Önen Bayram</i>	Laboratory / Med. Biology Mitosis and Meiosis <i>Deniz Kırış</i> Group 1
16.00- 16.50					Independent Learning	Independent Learning	Independent Learning
17.00-17.50							

COMMITTEE II – CELL
II. WEEK / 15 – 19 Nov 2021

	Monday 15-Nov-2021	Tuesday 16-Nov-2021	Wednesday 17-Nov-2021	Thursday 18-Nov-2021	Friday 19-Nov-2021
09.00- 09.50	PBL Session	Independent Learning	Lecture Vertebral Column, Ribs and Sternum <i>Erdem Söztutar</i>	Independent Learning	Lecture Genomics, Proteomics and Metabolomics <i>Seda Güleç Yılmaz</i>
10.00- 10.50		ICP I Lecture Introduction to Communication Skills <i>Özlem Tanrıöver</i>	Lecture Vertebral column, ribs and sternum <i>Erdem Söztutar</i>	Lecture Deoxyribonucleic Acid and Ribonucleic Acid (Central Dogma) <i>Turgay İsbir</i>	Lecture Genomics, Proteomics and Metabolomics <i>Seda Güleç Yılmaz</i>
11.00- 11.50		ICP I Lecture Basic Communication Skills <i>Arzu Akalın</i>	Lecture Deoxyribonucleic Acid and Ribonucleic Acid <i>Turgay İsbir</i>	Lecture Deoxyribonucleic Acid and Ribonucleic Acid (Central Dogma) <i>Turgay İsbir</i>	Lecture Regulation of Gene Expression <i>Turgay İsbir</i>
12.00- 12.50	Independent Learning	ICP I Lecture Basic Communication Skills <i>Arzu Akalın</i>	Lecture Deoxyribonucleic Acid and Ribonucleic Acid <i>Turgay İsbir</i>	Independent Learning	Lecture Regulation of Gene Expression <i>Turgay İsbir</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Lecture Biosynthesis of Nucleotides <i>Seda Güleç Yılmaz</i>	Independent Learning	Lecture Protein Synthesis and Turnover <i>Altay Burak Dalan</i>	Independent Learning
15.00- 15.50		Lecture Deoxyribonucleic Acid and Ribonucleic Acid <i>Turgay İsbir</i>		Lecture Protein Synthesis and Turnover <i>Altay Burak Dalan</i>	
16.00- 16.50		Independent Learning		Lecture Protein Synthesis and Turnover <i>Altay Burak Dalan</i>	
17.00-17.50				Independent Learning	

COMMITTEE II – CELL
III. WEEK / 22 - 26 Nov 2021

	Monday 22-Nov-2021	Tuesday 23-Nov-2021	Wednesday 24-Nov-2021	Thursday 25-Nov-2021	Friday 26-Nov-2021
09.00- 09.50	Independent Learning	Lecture Interaction of Radiation with Matter <i>Bilge Güvenç Tuna</i>	Independent Learning	Independent Learning	Lecture Interaction of X or Gamma Rays with Matter <i>Bilge Güvenç Tuna</i>
10.00- 10.50	Lecture Rise of the Hospitals <i>Elif Vatanoğlu Lutz</i>	ICP I Lecture The Medical Interview <i>Güldal İzbirak</i>	Laboratory / Med. Biology Nucleic Acid Purification <i>Seda Güleç Yılmaz</i> Grup 3	Lecture Cell Cycle (Mitosis & Meiosis) and Cell Death <i>Alev Cumbul</i>	Lecture Photoelectric Action, Compton Action <i>Bilge Güvenç Tuna</i>
11.00- 11.50	Lecture From Mahmud II's Mekteb-i Tıbbiye to the University Reform 1933 <i>Elif Vatanoğlu Lutz</i>	ICP I Lecture The Medical Interview <i>Güldal İzbirak</i>	Laboratory / Med. Biology Nucleic Acid Purification <i>Seda Güleç Yılmaz</i> Grup 4	Lecture Chromosome Structure and Function, Plasmids, Transposable Genetic Elements <i>Deniz Kırış</i>	Lecture Chromosome Structure and Function, Plasmids, Transposable Genetic Elements <i>Soner Doğan</i>
12.00- 12.50	Lecture The Demise of Humoral Theory <i>Elif Vatanoğlu Lutz</i>	ICP I Lecture Giving Information <i>Özlem Tanrıöver</i>	Laboratory / Med. Biology Nucleic Acid Purification <i>Seda Güleç Yılmaz</i> Grup 5	Lecture Chromosome Structure and Function, Plasmids, Transposable Genetic Elements <i>Deniz Kırış</i>	Lecture Chromosome Structure and Function, Plasmids, Transposable Genetic Elements <i>Soner Doğan</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Lecture Medicalisation <i>Elif Vatanoğlu Lutz</i>	Independent Learning	Laboratory / Med. Biology Nucleic Acid Purification <i>Seda Güleç Yılmaz</i> Group 1	Lecture Carbonyl Compounds <i>Esra Önen Bayram</i>	Lecture Distribution of Substances in Body Fluids <i>Burcu Gemici Başol</i>
15.00- 15.50	Lecture Cells and Bacteria <i>Elif Vatanoğlu Lutz</i>		Laboratory / Med. Biology Nucleic Acid Purification <i>Seda Güleç Yılmaz</i> Group 2	Lecture Carbonyl Compounds <i>Esra Önen Bayram</i>	Lecture Cell Membrane <i>Burcu Gemici Başol</i>
16.00- 16.50	Lecture Anaesthesia, Antisepsis <i>Elif Vatanoğlu Lutz</i>		Independent Learning	Independent Learning	Independent Learning
17.00-17.50	Independent Learning				

COMMITTEE II – CELL
IV. WEEK / 29 Nov – 03 December 2021

	Monday 29-Nov-2021	Tuesday 30-Nov-2021	Wednesday 01-Dec-2021	Thursday 02-Dec-2021	Friday 03-Dec-2021
09.00- 09.50	Lecture Half Value Layer, Attenuation <i>Bilge Güvenç Tuna</i>	Lecture Neurocranium <i>Erdem Söztutar</i>	Laboratory / Anatomy Neurocranium <i>Erdem Söztutar</i> Group 1	Lecture Introduction to Embryology and Human Developmental Period <i>Alev Cumbul</i>	Independent Learning
10.00- 10.50	Lecture Tools in Medical Biology <i>Deniz Kırac</i>	Lecture Neurocranium <i>Erdem Söztutar</i>	Laboratory / Anatomy Neurocranium <i>Erdem Söztutar</i> Group 2	Lecture Gametogenesis; Spermatogenesis <i>Alev Cumbul</i>	
11.00- 11.50	Lecture Tools in Medical Biology <i>Soner Doğan</i>	ICP I Lecture The Medical History <i>Güldal İzbirak</i>	Laboratory / Anatomy Neurocranium <i>Erdem Söztutar</i> Group 3	Lecture Units of Radioactivity <i>Bilge Güvenç Tuna</i>	Lecture Mendelian Laws and Inheritance <i>Soner Doğan</i>
12.00- 12.50	Lecture Neurocranium <i>Erdem Söztutar</i>	ICP I Lecture The Medical History <i>Güldal İzbirak</i>	Lunch Break	Lecture Radiation Protection (Safety) <i>Bilge Güvenç Tuna</i>	Lecture Mendelian Laws and Inheritance <i>Soner Doğan</i>
13.00- 13.50	Lunch Break	Lunch Break	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group A <i>Özlem Tannöver & Arzu Akalın</i>	Group B,C and D Independent Learning	Lunch Break
14.00- 14.50	Lecture General Structure of Viruses <i>Pınar Çiragil</i>	Lecture DNA Damage and Repair Mechanism <i>Altay Burak Dahan</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group A <i>Özlem Tannöver & Arzu Akalın</i>	Scientific Research and Project I Small group studies Group B Group C and D Independent Learning	Lecture Carboxylic Acids and Nitriles <i>Esra Önen Bayram</i>
15.00- 15.50	Lecture General Structure of Viruses <i>Pınar Çiragil</i>	Lecture DNA Damage and Repair Mechanism <i>Altay Burak Dahan</i>	Independent Learning for ICP	Group B,C and D Independent Learning	Lecture Carboxylic Acids and Nitriles <i>Esra Önen Bayram</i>
16.00- 16.50	Lecture Cell Organelles: Membranous and Nonmembranous Organelles <i>Aylin Yaba Uçar</i>	Lecture Cell Nucleus <i>Aylin Yaba Uçar</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group A <i>Özlem Tannöver & Arzu Akalın</i>	Group B,C and D Independent Learning	Independent Learning
17.00-17.50	Lecture Cytoskeleton <i>Aylin Yaba Uçar</i>	Independent Learning	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group A <i>Özlem Tannöver & Arzu Akalın</i>	Group B,C and D Independent Learning	

COMMITTEE II – CELL
V. WEEK / 06-10 December 2021

	Monday 06-Dec-2021	Tuesday 07-Dec-2021			Wednesday 08-Dec-2021	Thursday 09-Dec-2021	Friday 10-Dec-2021
09.00- 09.50	Independent Learning	Independent Learning			Independent Learning	Lecture Medical Imaging: Nuclear Medicine <i>Bilge Güvenç Tuna</i>	Lecture Mutation and Polymorphism <i>Turgay İsbir</i>
10.00- 10.50	Lecture Radioisotopes in Medicine <i>Bilge Güvenç Tuna</i>	Independent Learning				Lecture Medical Imaging: Applications of X-ray Attenuation & Detection <i>Bilge Güvenç Tuna</i>	Lecture Mutation and Polymorphism <i>Turgay İsbir</i>
11.00- 11.50	Lecture Biological mechanisms of Radiation <i>Bilge Güvenç Tuna</i>	Clinical Skills Learning ICP Patient-Doctor Communication Skills General Approach Group B <i>Özlem Tannöver & Arzu Akalın</i>	Scientific Research and Project I Small group studies Group C	Group A and D Independent Learning	Lecture Transport of Substances Through the Cell Membrane <i>Burcu Gemici</i>	Lecture Mendelian Laws and Inheritance <i>Soner Doğan</i>	Lecture Second Week of Development: Implantation and Bilaminar Germ Disc Formation <i>Aylin Yaba Uçar</i>
12.00- 12.50	Independent Learning	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group B <i>Özlem Tannöver & Arzu Akalın</i>	Group A,C and D Independent Learning	Group A,C and D Independent Learning	Lecture Transport of Substances Through the Cell Membrane <i>Burcu Gemici</i>	Lecture Mendelian Laws and Inheritance <i>Soner Doğan</i>	Independent Learning
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Independent Learning for ICP Group B	Group A,C and D Independent Learning	Group A,C and D Independent Learning	Lecture First Week of Development: Fertilization <i>Aylin Yaba Uçar</i>	Lecture General structure of fungi <i>Pınar Çıragil</i>	Independent Learning
15.00- 15.50		Independent Learning for ICP Group B	Group A,C and D Independent Learning	Group A,C and D Independent Learning	Lecture First Week of Development: Fertilization <i>Aylin Yaba Uçar</i>	Lecture General structure of fungi <i>Pınar Çıragil</i>	
16.00- 16.50	Introduction to Elective Courses	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group B <i>Özlem Tannöver & Arzu Akalın</i>	Group A,C and D Independent Learning	Group A,C and D Independent Learning	Independent Learning	Independent Learning	
17.00-17.50		Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group B <i>Özlem Tannöver & Arzu Akalın</i>	Group A,C and D Independent Learning	Group A,C and D Independent Learning			

COMMITTEE II – CELL
VI. WEEK / 13-17 December 2021

	Monday 13-Dec-2021	Tuesday 14-Dec-2021	Wednesday 15-Dec-2021	Thursday 16-Dec-2021	Friday 17-Dec-2021
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Lecture Amines <i>Esra Önen Bayram</i>	Independent Learning
10.00- 10.50	Lecture Viscerocranium <i>Erdem Söztutar</i>	Laboratory / Anatomy Viscerocranium and Axial skeleton Group 3 <i>Erdem Söztutar</i>	Laboratory / Med. Biology Epigenetics (Population Genetics) <i>Soner Doğan</i> Group 5	Lecture Amines <i>Esra Önen Bayram</i>	Laboratory / Histology & Embryology Developing Human-I <i>Alev Cumbul & Aylin Yaba</i> <i>Uçar</i> Group 4
11.00- 11.50	Lecture Viscerocranium <i>Erdem Söztutar</i>	Laboratory / Anatomy Viscerocranium and Axial skeleton Group 2 <i>Erdem Söztutar</i>	Laboratory / Med. Biology Epigenetics (Population Genetics) <i>Soner Doğan</i> Group 4	Lecture Lasers in Medicine <i>Bilge Güvenç Tuna</i>	Laboratory / Histology & Embryology Developing Human-I <i>Alev Cumbul & Aylin Yaba</i> <i>Uçar</i> Group 5
12.00- 12.50	Lecture Viscerocranium <i>Erdem Söztutar</i>	Laboratory / Anatomy Viscerocranium and Axial skeleton Group 1 <i>Erdem Söztutar</i>	Laboratory / Med. Biology Epigenetics (Population Genetics) <i>Soner Doğan</i> Group 3	Lecture Lasers in Medicine <i>Bilge Güvenç Tuna</i>	Laboratory / Histology & Embryology Developing Human-I <i>Alev Cumbul & Aylin Yaba</i> <i>Uçar</i> Group 1
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Lecture Osmotic Pressure and Permeability of The Cell Membrane <i>Burcu Gemici Başol</i>	Independent Learning	Laboratory / Med. Biology Epigenetics (Population Genetics) <i>Soner Doğan</i> Group 2	Lecture Cell and Gene Therapy <i>Soner Doğan</i>	Laboratory / Histology & Embryology Developing Human-I <i>Alev Cumbul & Aylin Yaba</i> <i>Uçar</i> Group 2
15.00- 15.50	Lecture Transport of Substances Through the Cell Membrane <i>Burcu Gemici Başol</i>		Laboratory / Med. Biology Epigenetics (Population Genetics) <i>Soner Doğan</i> Group 1	Lecture Cell and Gene Therapy <i>Soner Doğan</i>	Laboratory / Histology & Embryology Developing Human-I <i>Alev Cumbul & Aylin Yaba</i> <i>Uçar</i> Group 3
16.00- 16.50	Lecture Third Week of Development:Gastrulation; Primitive Streak, Notochord Formation <i>Alev Cumbul</i>		Independent Learning	Independent Learning	Independent Learning
17.00-17.50	Independent Learning				

COMMITTEE II – CELL
VII. WEEK / 20-24 December 2021

	Monday 20-Dec-2021	Tuesday 21-Dec-2021			Wednesday 22-Dec-2021	Thursday 23-Dec-2021	Friday 24-Dec-2021		
09.00- 09.50	Laboratory / Physiology Osmosis & Diffusion Group 1 <i>Burcu Gemici Başol</i>	Independent Learning			Independent Learning	Lecture Steroids <i>Esra Önen Bayram</i>	Independent Learning		
10.00- 10.50	Laboratory / Physiology Osmosis & Diffusion Group 2 <i>Burcu Gemici Başol</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group D <i>Özlem Tannöver & Arzu Akalın</i>	Scientific Research and Project I Small group studies Group A	Group A and B Independent Learning	Laboratory / Med. Biology Gene Identification in Cancer <i>Altay Burak Dalan</i> Group 5	Lecture Steroids <i>Esra Önen Bayram</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group C <i>Özlem Tannöver & Arzu Akalın</i>	Scientific Research and Project I Small group studies Group D	Group A and B Independent Learning
11.00- 11.50	Laboratory / Physiology Osmosis & Diffusion Group 3 <i>Burcu Gemici Başol</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group D <i>Özlem Tannöver & Arzu Akalın</i>	Group A,B and C Independent Learning	Group A,B and C Independent Learning	Laboratory / Med. Biology Gene Identification in Cancer <i>Altay Burak Dalan</i> Group 1	Lecture Biological Aspects of Development <i>Deniz Kırış</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group C <i>Özlem Tannöver & Arzu Akalın</i>	Group A,B and BD Independent Learning	Group A Group A,B and BD Independent Learning
12.00- 12.50	Laboratory / Physiology Osmosis & Diffusion Group 4 <i>Burcu Gemici Başol</i>	Independent Learning for ICP Group D	Group A,B and C Independent Learning	Group A,B and C Independent Learning	Laboratory / Med. Biology Gene Identification in Cancer <i>Altay Burak Dalan</i> Group 2	Lecture Biological Aspects of Development <i>Deniz Kırış</i>	Independent Learning for ICP	Group A,B and BD Independent Learning	Group A Group A,B and BD Independent Learning
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lunch Break	Lunch Break		
14.00- 14.50	Laboratory / Physiology Osmosis & Diffusion Group 5 <i>Burcu Gemici Başol</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group D <i>Özlem Tannöver & Arzu Akalın</i>	Group A,B and C Independent Learning	Group A,B and C Independent Learning	Laboratory / Med. Biology Gene Identification in Cancer <i>Altay Burak Dalan</i> Group 3	Lecture General Structure of Parasites <i>Pınar Çiragil</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group C <i>Özlem Tannöver & Arzu Akalın</i>		
15.00- 15.50	Laboratory / Physiology Osmosis & Diffusion Group 6 <i>Burcu Gemici Başol</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group D <i>Özlem Tannöver & Arzu Akalın</i>	Group A,B and C Independent Learning	Group A,B and C Independent Learning	Laboratory / Med. Biology Gene Identification in Cancer <i>Altay Burak Dalan</i> Group 4	Lecture General Structure of Parasites <i>Pınar Çiragil</i>	Clinical Skills Learning ICP I Patient-Doctor Communication Skills General Approach Group C <i>Özlem Tannöver & Arzu Akalın</i>		
16.00- 16.50	Laboratory / Physiology Osmosis & Diffusion Group 7 <i>Burcu Gemici Başol</i>				Independent Learning	Independent Learning			
17.00-17.50	Laboratory / Physiology Osmosis & Diffusion Group 8 <i>Burcu Gemici Başol</i>								

COMMITTEE II – CELL
VIII. WEEK / 27-31 December 2021

	Monday 27-Dec-2021	Tuesday 28-Dec-2021	Wednesday 29-Dec-2021	Thursday 30-Dec-2021	Friday 31-Dec-2021
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50	Assessment Session Anatomy, Medical Biology, Histology&Embryology, Physiology (Practical Exam)			Assessment Session Committee II (MCQ)	
11.00- 11.50					
12.00- 12.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
13.00- 13.50	Independent Learning	Independent Learning	Independent Learning	Program Evaluation Session Review of the Exam Questions Evaluation of the Committee II Program <i>Head of Committee</i>	Independent Learning
14.00- 14.50					
15.00- 15.50					
16.00- 16.50					
17.00-17.50					

MED 104-COMMITTEE III - TISSUE I
DISTRIBUTION of LECTURE HOURS

January 11, 2021 – March 5, 2021

COMMITTEE DURATION: 6 WEEKS

MED 104	BASIC MEDICAL SCIENCES I DISCIPLINE	THEO.	PRAC.	TOTAL
	ANATOMY	18	3Grx3H	21
	BIOPHYSICS	10	0	10
	HISTOLOGY & EMBRYOLOGY	13	5Grx2H	15
	MEDICAL HISTORY & ETHICS	4	0	4
	PHYSIOLOGY	8	8Grx1H 1Grx2H	11
	SCIENTIFIC RESEARCH AND PROJECT I	2	0	2
	IMMUNOLOGY	4		4
	PBL	6		6
	TOTAL	65	8	73
	INDEPENDENT LEARNING HOURS			96

OTHER COURSES

MD 102	INTRODUCTION to CLINICAL PRACTICE-I	0	4Grx4H	11
MED 103	ANATOMICAL DRAWING	0	8	8
HTR 302	ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	8	0	8
MED 611-MED 632	FREE ELECTIVE COURSE	6	0	6
TKL 202	TURKISH LANGUAGE & LITERATURE	8	0	8
	TOTAL	94	20	114

Coordination Committee	Head	Burcu GEMİCİ BAŞOL, PhD. Assoc. Prof.
	Secretary	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	Member	Soner DOĞAN, PhD. 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, Assoc. 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, Prof.
	Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof.
SCIENTIFIC RESEARCH AND PROJECT I	Bayram YILMAZ, PhD, Prof.
	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof.

OTHER COURSES

INTRODUCTION to CLINICAL PRACTICE I (ICP-I)	Güldal İZBIRAK, MD, Prof.
	Özlem TANRIÖVER, MD, Prof.
	Arzu AKALIN, MD, Assist. Prof.
	Serdar ÖZDEMİR, MD, Assist. Prof.
ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist. Prof.
ATATÜRK'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;

KNOWLEDGE

- 1.0 explain anatomical characteristics of joints in general.
- 2.0 define anatomical properties and clinical implications for the joints of extremities..
- 3.0 explain anatomical characteristics of muscles and spinal nerves in general
- 4.0 describe anatomical properties and clinical implications for back muscles.
- 5.0 explain muscle contraction mechanism on the basis of Sliding Filament Theory.
- 6.0 define biophysical membrane model
- 7.0 explain steady state and equilibrium state for the cell
- 8.0 explain the link between structure and role of tissues.
- 9.0 for epithel tissue;
 - 9.1. describe the primary functions and characteristics of epithelial tissue
 - 9.2. distinguish different types of epithelium and cell to cell junctions
 - 9.3. define the types and functions of glandular epithelium
- 10.0 for muscle tissue;
 - 10.1. describe histological characteristics and relate main function
 - 10.2. summarize the main similarities and differences between three different types of muscle
 - 10.3. describe the embryology of muscular system
- 11.0 for connective tissue;
 - 11.1. explain the general specification
 - 11.2. identify the classification and specific properties of connective tissue types.
- 12.0 explain the morphological properties and functions of blood cells
- 13.0 define the correlation between ethics and philosophy in relation with main ethical theories.
- 14.0 for membrane potentials and action potentials
 - 14.1. explain how resting membrane potential is produced
 - 14.2. define depolarization, repolarization, and hyperpolarization and properties of action potentials.
- 15.0 describe the gross and microscopic structure of skeletal muscles and motor unit.
- 16.0 For contraction of skeletal muscle
 - 16.1. explain the role of Ach in the neuromuscular transmission
 - 16.2. explain what is meant by the sliding filament theory of contraction
 - 16.3. define the role of Ca²⁺ and the sarcoplasmic reticulum in excitation-contraction coupling
- 17.0 define the basics of immune response
- 18.0 explain case scenario related basic medical science topics in a clinical context.

SKILLS:

- 1.0 apply basic laboratory techniques and use equipment.
- 2.0 use biopsychosocial approach on medical practice.
- 3.0 display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.
- 4.0 present and write a scientific article

ATTITUDES

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

COMMITTEE III –TISSUE I
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINES	LECTURER / INSTRUCTOR	DISTRIBUTION of MCQs and SbMCQ			
			CE	FE	IE	TOTAL
1.0 - 4.0	ANATOMY	Dr. E. Söztutar	32	8	8	48
5.0, 7.0	BIOPHYSICS	Dr. B.Güvenç Tuna	16	5	5	26
8.0 -12.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar	23	6	6	35
		Dr. A. Cumbul				
13.0	MEDICAL HISTORY & ETHICS	Dr. E. Vatanoğlu Lutz	7	2	2	11
14.0 -16.0	PHYSIOLOGY	Dr. B. Gemici Başol	14	4	4	22
17.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	7	2	2	11
18.0	PBL	PBL Scenario	1	-	-	1
		TOTAL	100	27/200[#]	27/200[#]	154
LEARNING OBJECTIVES		DISCIPLINE	DISTRIBUTION of LAB POINTS			
			LPE			
1.0 - 4.0 SKILLS 1.0		ANATOMY	30			
8.0 – 12.0 SKILLS 1.0		HISTOLOGY & EMBRYOLOGY	30			
14.0 -16.0 SKILLS 1.0		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

SbMCQ: Multiple Choice Questions which are based on a clinical, research or daily life scenario

LPE: Practical Lecture Evaluation

CE: Committee Exam

CS: Committee Score

FE: Final Exam

ICE: Incomplete Exam

PBL-P: Evaluation of PBL Student's Performance

**WEEKLY COMMON COMPULSORY and MED 103 COURSE SCHEDULE
2021-2022 EDUCATION YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
09:00-09:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201 (FALL) & TKL 202 SPRING ONLINE	HUM 103 (FALL) ONLINE*
10:00-10:50	MED 104 (4E01)	MED 102** (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201 (FALL) & TKL 202 SPRING ONLINE	HUM 103 (FALL) ONLINE*
11:00-11:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		
12:00-12:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	LUNCH BREAK	LUNCH BREAK
13:00-13:50	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	HTR 301 (FALL&SPRING) ONLINE	HTR 301 (FALL&SPRING) ONLINE*
14:00-14:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)	HTR 301 (FALL&SPRING) ONLINE	HTR 301 (FALL&SPRING) ONLINE*
15:00-15:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)		
16:00-16:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)	HUM 103 (FALL) ONLINE	
17:00-17:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)	HUM 103 (FALL) ONLINE	
18:00-19:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
19:00-20:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
20:00-22:00					HUM 103 (FALL) ONLINE (2 hours)		

MED103 Anatomical Drawing Course will be held online on Tuesdays between 6-8 pm. * For international students ^a Some of the students will have different sections of HUM 103 Course (Friday or Saturday)

COMMITTEE III - TISSUE I
I. WEEK / 03 Jan –07 Jan 2022

	Monday 03-Jan-2022	Tuesday 04-Jan-2022			Wednesday 05-Jan-2022	Thursday 06-Jan-2022	Friday 07-Jan-2022
09.00- 09.50	PBL Session	Clinical Skills Learning ICP I Patient-Doctor Communication Skills Using SPs <i>Güldal İzbirak & Özlem Tanrıöver &Arzu Akalın & Serdar Özdemir</i>			Lecture / Scientific Research And Project Course I Scientific Study Design and Types of Scientific Research <i>Bayram Yılmaz/ Bilge Güvenç Tuna</i>	Lecture Introduction to Arthrology <i>Erdem Söztutar</i>	Lecture Histology of Connective Tissue Proper; Types <i>Alev Cumbul</i>
10.00- 10.50		Group D	Group A Sci. Res. & P. I Small Group Studies	Group B and C Independent Learning	Lecture / Scientific Research And Project Course I How to Prepare and Write a Scientific Project? <i>Bayram Yılmaz/ Bilge Güvenç Tuna</i>	Lecture Introduction to Arthrology <i>Erdem Söztutar</i>	Lecture Histology of Connective Tissue; Extracellular Matrix <i>Alev Cumbul</i>
11.00- 11.50					Lecture Histology of Covering Epithelium; Structure, Classification <i>Aylin Yaba Uçar</i>	Lecture Asymmetric Distribution& Transport of Ions <i>Bilge Güvenç Tuna</i>	Lecture Resting Membrane Potential: Ionic Balance <i>Bilge Güvenç Tuna</i>
12.00- 12.50					Lecture Histology of Covering Epithelium; Surface Specification <i>Aylin Yaba Uçar</i>	Lecture Asymmetric Distribution& Transport of Ions <i>Bilge Güvenç Tuna</i>	Lecture Nernst and Goldman Equations <i>Bilge Güvenç Tuna</i>
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Introductory Session Introduction to Committee III <i>Secretary of Committee III</i>			Lecture Joints of the Upper Limb <i>Erdem Söztutar</i>	Lecture Histology of Glandular Epithelium <i>Aylin Yaba Uçar</i>	Independent Learning
15.00- 15.50		Independent Learning			Lecture Joints of the Upper Limb <i>Erdem Söztutar</i>	Independent Learning	
16.00- 16.50					Independent Learning		
17.00-17.50							

COMMITTEE III - TISSUE I
II. WEEK / 10 Jan 2022– 14 Jan 2022

	Monday 10-Jan-2022	Tuesday 11-Jan-2022			Wednesday 12-Jan-2022	Thursday 13-Jan-2022	Friday 14-Jan-2022
09.00- 09.50	PBL Session	Clinical Skills Learning ICP I Patient-Doctor Communication Skills Using SPs <i>Güldal İzbirak & Özlem Tanrıöver & Arzu Akalın & Serdar Özdemir</i>			Lecture Histology of Connective Tissue; Cells <i>Alev Cumbul</i>	Independent Learning	Laboratory/Anatomy Joints of the Vertebral Column and Axial Skeleton <i>Erdem Söztutar Group I</i>
10.00- 10.50		Group C	Group B Sci. Res. & P. I Small Group Studies	Group D and Independent Learning	Lecture Histology of Muscle Tissue; General Specification <i>Alev Cumbul</i>	Independent Learning	Laboratory/Anatomy Joints of the Vertebral Column and Axial Skeleton <i>Erdem Söztutar Group II</i>
11.00- 11.50					Lecture Joints of the Lower Limb <i>Erdem Söztutar</i>	Lecture Action potential: Rheobase and Chronaxie <i>Bilge Güvenç Tuna</i>	Laboratory/Anatomy Joints of the Vertebral Column and Axial Skeleton <i>Erdem Söztutar Group III</i>
12.00- 12.50					Independent Learning	Lecture Joints of the Lower Limb <i>Erdem Söztutar</i>	Lecture Biophysical Modeling of Membrane & Ion Channels <i>Bilge Güvenç Tuna</i>
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Lecture Joints of the Upper Limb <i>Erdem Söztutar</i>			Lecture Joints of the Vertebral Column <i>Erdem Söztutar</i>	Lecture Histology of Striated Skeletal Muscle <i>Alev Cumbul</i>	Laboratory / Histology&Embryology Histology of Epithelial Tissue <i>Alev Cumbul & Aylin Yaba Uçar Group II</i>
15.00- 15.50		Lecture Membrane Potentials and Action Potentials <i>Burcu Gemici Başol</i>			Lecture Neuromuscular Transmission <i>Burcu Gemici Başol</i>	Lecture Histology of Heart & Smooth Muscle <i>Alev Cumbul</i>	Laboratory / Histology&Embryology Histology of Epithelial Tissue <i>Alev Cumbul & Aylin Yaba Uçar Group III</i>
16.00- 16.50		Lecture Membrane Potentials and Action Potentials <i>Burcu Gemici Başol</i>			Lecture Skeletal Muscle Physiology <i>Burcu Gemici Başol</i>	Independent Learning	Laboratory / Histology&Embryology Histology of Epithelial Tissue <i>Alev Cumbul & Aylin Yaba Uçar Group IV</i>
17.00-17.50		Independent Learning			Independent Learning		Laboratory / Histology&Embryology Histology of Epithelial Tissue <i>Alev Cumbul & Aylin Yaba Uçar Group V</i>

COMMITTEE III - TISSUE I
III. WEEK / 17 Jan – 21 Jan 2022

	Monday 17-Jan-2022	Tuesday 18-Jan-2022			Wednesday 19-Jan-2022	Thursday 20-Jan-2022	Friday 21-Jan-2022		
09.00- 09.50	Laboratory / Physiology EMG I and EMG II Group I Burcu Gemici Başol	Clinical Skills Learning ICP I Patient-Doctor Communication Skills Using SPs Güldal İzbirak & Özlem Tanrıöver &Arzu Akalın & Serdar Özdemir			Independent Learning	Independent Learning	Laboratory/Anatomy Joints of the Lower Limb & Cranium Erdem Söztutar Group I		
10.00- 10.50	Laboratory / Physiology EMG I and EMG II Group II Burcu Gemici Başol	Group B	Group C Sci. Res. & P. I Small Group Studies	Group D and A Independent Learning	Lecture Joints of the Lower Limb Erdem Söztutar	Lecture Smooth Muscle Physiology Burcu Gemici Başol	Laboratory/Anatomy Joints of the Lower Limb & Cranium Erdem Söztutar Group II		
11.00- 11.50	Laboratory / Physiology EMG I and EMG II Group III Burcu Gemici Başol				Lecture Joints of the Axial Skeleton Erdem Söztutar	Lecture Smooth Muscle Physiology Burcu Gemici Başol	Laboratory/Anatomy Joints of the Lower Limb & Cranium Erdem Söztutar Group III		
12.00- 12.50	Laboratory / Physiology EMG I and EMG II Group IV Burcu Gemici Başol				Lecture Introduction to Myology Erdem Söztutar	Lecture Development of the Muscular System Alev Cumbul	Laboratory / Histology&Embryology Histology of Muscle Tissue Alev Cumbul & Aylin Yaba Uçar Group I		
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lunch Break	Lunch Break		
14.00- 14.50	Laboratory / Physiology EMG I and EMG II Group V Burcu Gemici Başol	Independent Learning			Clinical Skills Learning ICP I Patient-Doctor Communication Skills Using SPs Güldal İzbirak & Özlem Tanrıöver &Arzu Akalın & Serdar Özdemir		Laboratory / Histology&Embryology Histology of Muscle Tissue Alev Cumbul & Aylin Yaba Uçar Group II		
15.00- 15.50	Laboratory / Physiology EMG I and EMG II Group VI Burcu Gemici Başol				Group A	Group D Sci. Res. & P. I Small Group Studies	Group C and B Indepen dent Learnin g	Lecture Joints of the Cranium and Fontanelles Erdem Söztutar	Laboratory / Histology&Embryology Histology of Muscle Tissue Alev Cumbul & Aylin Yaba Uçar Group III
16.00- 16.50	Laboratory / Physiology EMG I and EMG II Group VII Burcu Gemici Başol							Lecture Joints of the Cranium and Fontanelles Erdem Söztutar	Laboratory / Histology&Embryology Histology of Muscle Tissue Alev Cumbul & Aylin Yaba Uçar Group IV
17.00-17.50	Laboratory / Physiology EMG I and EMG II Group VIII Burcu Gemici Başol							Independent Learning	Laboratory / Histology&Embryology Histology of Muscle Tissue Alev Cumbul & Aylin Yaba Uçar Group V

MIDTERM BREAK

24 JAN 2022 - 06 FEB 2022

COMMITTEE III - TISSUE I
IV. WEEK / 07 Feb – 10 Feb 2022

	Monday 07-Feb-2022	Tuesday 08-Feb-2022	Wednesday 09-Feb-2022	Thursday 10-Feb-2022	Friday 11-Feb-2021	
09.00- 09.50	Independent Learning	Independent Learning	Laboratory / Anatomy Muscles of the Back <i>Erdem Söztutar</i> <i>Group I</i>	Independent Learning	Lecture Physiology of Cardiac Muscle <i>Burcu Gemici Başol</i>	
10.00- 10.50	Independent Learning	Lecture / ICP I Introduction to the First Aid Programmes <i>Güldal İzbirak</i>	Laboratory / Anatomy Muscles of the Back <i>Erdem Söztutar</i> <i>Group II</i>	Lecture Haematopoiesis <i>Aylin Yaba Uçar</i>	Lecture Physiology of Cardiac Muscle <i>Burcu Gemici Başol</i>	
11.00- 11.50	Lecture What is Immunology? <i>Gülderen Yanıkkaya Demirel</i>	Lecture / ICP I Basic Human Body <i>Arzu Akalın</i>	Laboratory / Anatomy Muscles of the Back <i>Erdem Söztutar</i> <i>Group III</i>	Lecture Contractile Machinery; Sliding Filament Theory <i>Bilge Güvenç Tuna</i>	Lecture Muscle Mechanic; Mechanical Powers of Cardiac and Skeletal Muscle <i>Bilge Güvenç Tuna</i>	
12.00- 12.50	Lecture What is Immunology? <i>Gülderen Yanıkkaya Demirel</i>	Lecture / ICP I Scene Assessment <i>Arzu Akalın</i>	Laboratory / Histology&Embryology Histology of Connective Tissue and Blood <i>Alev Cumbul & Aylin Yaba Uçar</i> <i>Group I</i>	Lecture Impulse Propagation <i>Bilge Güvenç Tuna</i>	Lecture Biophysics of Smooth Muscle Contraction <i>Bilge Güvenç Tuna</i>	
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Lecture Blood, RBC and Platelets <i>Aylin Yaba Uçar</i>	Lecture Muscles of the Back <i>Erdem Söztutar</i>	Laboratory / Histology&Embryology Histology of Connective Tissue and Blood <i>Alev Cumbul & Aylin Yaba Uçar</i> <i>Group II</i>	Lecture Cells and Tissues of Immune System <i>Gülderen Yanıkkaya Demirel</i>	ELECTIVE WEEK I	Independent Learning
15.00- 15.50	Lecture Blood WBC, Blood Smear <i>Aylin Yaba Uçar</i>	Lecture Muscles of the Back and Nape <i>Erdem Söztutar</i>	Laboratory / Histology&Embryology Histology of Connective Tissue and Blood <i>Alev Cumbul & Aylin Yaba Uçar</i> <i>Group III</i>	Lecture Cells and Tissues of Immune System <i>Gülderen Yanıkkaya Demirel</i>		
16.00- 16.50	Independent Learning	Independent Learning	Laboratory / Histology&Embryology Histology of Connective Tissue and Blood <i>Alev Cumbul & Aylin Yaba Uçar</i> <i>Group IV</i>	Independent Learning	Independent Learning	ELECTIVE WEEK I
17.00-17.50			Laboratory / Histology&Embryology Histology of Connective Tissue and Blood <i>Alev Cumbul & Aylin Yaba Uçar</i> <i>Group V</i>			

COMMITTEE III - TISSUE I
V. WEEK / 14 Feb – 18 Feb 2022

	Monday 14-Feb-2022	Tuesday 15-Feb-2022	Wednesday 16-Feb-2022	Thursday 17-Feb-2022	Friday 18-Feb-2022		
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Laboratory / Physiology Smooth Muscle Contractility <i>Burcu Gemici Başol</i> <i>All Groups</i>	Independent Learning		
10.00- 10.50	Independent Learning			Laboratory / Physiology Cardiac Muscle with PhysioEx <i>Burcu Gemici Başol</i> <i>All Groups</i>	Lecture Introduction to Peripheral Nervous System <i>Erdem Söztutar</i>		
11.00- 11.50	Lecture Genetic Medicine <i>Elif Vatanoğlu Lutz</i>	ICP MIDTERM EXAM	ICP MIDTERM EXAM	Independent Learning	Lecture Spinal Nerves <i>Erdem Söztutar</i>		
12.00- 12.50	Lecture History of our Future <i>Elif Vatanoğlu Lutz</i>				Independent Learning		
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break		
14.00- 14.50	Lecture Heyday and Crisis (20 th C.) <i>Elif Vatanoğlu Lutz</i>	Independent Learning	Independent Learning	PROGRAM IMPROVEMENT SESSION <i>Phase Coordinator</i>	ELECTIVE WEEK II	Independent Learning	
15.00- 15.50	Lecture Antibiotics, Cancer Therapy <i>Elif Vatanoğlu Lutz</i>						
16.00- 16.50	Independent Learning			Independent Learning	Independent Learning	Independent Learning	ELECTIVE WEEK II
17.00-17.50							

COMMITTEE III - TISSUE I
VI. WEEK / 21 Feb – 25 Feb 2022

	Monday 21-Feb-2022	Tuesday 22-Feb-2022	Wednesday 23-Feb-2022	Thursday 24-Feb-2022	Friday 25-Feb-2022	
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning	
10.00- 10.50			Assessment Session Histology&Embryology Physiology Anatomy		Assessment Session Committee III (MCQ)	
11.00- 11.50			Independent Learning			
12.00- 12.50						
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Program Evaluation Session Review of the Exam Questions Evaluation of the Committee III Program <i>Head of Committee</i>	
14.00- 14.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	ELECTIVE WEEK III	Independent Learning
15.00- 15.50					Independent Learning	ELECTIVE WEEK III
16.00- 16.50						
17.00-17.50						

MED 104-COMMITTEE IV - TISSUE II
DISTRIBUTION of LECTURE HOURS

Feb 28, 2022 - April 22, 2022

COMMITTEE DURATION: 8 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	TOTAL
	DISCIPLINE			
	ANATOMY	26	3Grx5H	31
	BEHAVIORAL SCIENCES	14	0	14
	BIOCHEMISTRY	32	5Grx2H	34
	BIOPHYSICS	6	0	6
	BIOSTATISTICS	12	0	12
	HISTOLOGY & EMBRYOLOGY	8	3Grx2H	10
	MEDICAL BIOLOGY	7	5Grx1H	8
	IMMUNOLOGY	4	0	4
	PBL	6		6
	TOTAL	115	10	125
	INDEPENDENT LEARNING HOURS			71

OTHER COURSES

MED 103	ANATOMICAL DRAWING	0	16	16
MED 102	INTRODUCTION to CLINICAL PRACTICE-I	17	5Grx8H	25
HTR 302	ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	16	0	16
TKL 202	TURKISH LANGUAGE & LITERATURE	16	0	16
MED 611-632	FREE ELECTIVE COURSE	16	0	16
	TOTAL	159	42	120

Coordination Committee	Head	İnci ÖZDEN, PhD, Prof.
	Secretary	Cenk ANDAÇ, PhD, Assist. Prof.
	Member	Deniz KIRAÇ, PhD, Assoc. Prof.
	Member	Aylin YABA UÇAR, PhD, Assoc. Prof.

**COMMITTEE IV – TISSUE II
LECTURERS**

MED 104-BASIC MEDICAL SCIENCES I	
DISCIPLINE	LECTURES
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
BEHAVIORAL SCIENCES	Instructor
BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof.
	Jale ÇOBAN, MD, Prof.
	Müge KOPUZ ALVAREZ NOVAL, PhD, Assist. Prof.
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
BIOSTATISTICS	E. Çiğdem KELEŞ, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Assoc. Prof.
	Alev CUMBUL, PhD, Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Altay Burak DALAN, PhD, Prof.
	Soner DOĞAN, PhD, Prof.
	Deniz KIRAÇ, PhD, Assoc. Prof.
	Seda Güleç YILMAZ, PhD, Assoc. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof.
SCIENTIFIC RESEARCH AND PROJECT I	Bayram YILMAZ, PhD, Prof.
	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.

MED 102- INTRODUCTION to CLINICAL PRACTICE I (ICP-I)	Özlem TANRIÖVER, MD, Prof.
	Arzu AKALIN, MD, Assist. Prof.
	Serdar ÖZDEMİR, MD, PhD, Assist. Prof.
	Cem ŞİMŞEK, MD, Assist. Prof.
MED 103- ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist. Prof.
HTR 302- ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Instructor
TKL 202- 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

KNOWLEDGE

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

- 1.0 describe anatomical properties of the upper extremity and axial muscles.
- 2.0 describe the clinical implications of the anatomical features of the upper extremity and axial muscles.
- 3.0 describe the Milestones of development (Pregnancy through old age), Piaget's cognitive development theory, approaches on personality development: Psychoanalytic-Theory and Defense mechanisms, Humanistic Theories
- 4.0 describe the biology of behavior including genetic influences, behavioral neuroanatomy and neurotransmission; substance related disorders
- 5.0 define consciousness, stages of sleep and sleep-related disorders, and neurophysiology of perception
- 6.0 explain forms of learning (sensitization/habituation, sensory and motor learning, classical and operant conditioning, reinforcement, extinction, social-cognitive learning, observational learning) and neural bases of memory formation
- 7.0 for biomolecules;
 - 7.1. define structural and biochemical functions of carbohydrates, lipids, proteins and nucleotides
- 8.0 for enzymes;
 - 8.1. list basic properties and classes of enzymes,
 - 8.2. describe regulatory functions of enzymes,
 - 8.3. define the functions of enzymes in different metabolic pathways
- 9.0 describe the ATP production by substrate level phosphorylation and oxidative phosphorylation
- 10.0 for biophysics,
 - 10.1. explain basic physical properties of biomaterials (such as bone and vessels)
 - 10.2. know basic properties of digital biomedical signals
- 11.0 for main concepts of biostatistics
 - 11.1. explain the main concepts of statistic
 - 11.2. list the names of the data types
 - 11.3 list the types of the graphics
 - 11.4. describe a frequency distribution
- 12.0 list the types of descriptive statistics for cartilage and bone tissue;
- 13.0 For cartilage, bone and adipose tissue;
 - 13.1. explain general microscopic characteristics
 - 13.2. summarize the main similarities and differences between different types of cartilage
 - 13.3. explain histological characteristics of the bone cells
 - 13.4. describe the main similarities and differences between different types of bone
 - 13.5. explain steps of the ossification types

- 13.6. explain the developmental stages of bone formation
- 14.0 For nervous tissue;
 - 14.1. define the general histological structure of nervous tissue
 - 14.2. define the structure and function of neuronal and glial cells.
- 15.0 recognize the components of extracellular matrix and their interactions with each other.
- 16.0 define the basics of immune response
- 17.0 explain case scenario related basic medical science topics in a clinical context.

SKILLS

- 1.0 apply basic laboratory techniques and use equipments.
- 2.0 for biostatistics,
 - 2.1 apply descriptive statistics for a given data set.
 - 2.2. demonstrate a given data set using graphics.
- 3.0 use biopsychosocial approach on medical practice.
 - 3.1. display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.
 - 3.2. present and write a scientific article

ATTITUDES

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

COMMITTEE IV – TISSUE II
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINES	LECTURER / INSTRUCTOR	DISTRIBUTION of MCQs and SbMCQ			
			CE	FE	IE	TOTAL
1.0 – 2.0	ANATOMY	Dr. E. Söztutar	24	12	12	48
3.0 – 6.0	BEHAVIORAL SCIENCE	Behavioral Science Lecture	13	6	6	25
7.0 – 9.0	BIOCHEMISTRY	Dr. İ. Özden	29	15	15	59
10.0	BIOPHYSICS	Dr. B.G. Tuna	5	2	2	9
11.0,12.0	BIOSTATISTICS	Dr. Ç. Keleş	11	5	5	21
13.0, 14.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar	7	4	4	15
		Dr. A. Cumbul				
15.0	MEDICAL BIOLOGY	Dr. T. İsbir	6	3	3	12
16.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	4	2	2	8
17.0	PBL	PBL Scenario	1	-	-	1
TOTAL			100	49/200[#]	49/200[#]	198

LEARNING OBJECTIVES	DISCIPLINE	DISTRIBUTION of LAB POINTS
		LPE
1.0 – 3.0 SKILLS. 1.0	ANATOMY	50
8.0 – 10.0 SKILLS. 1.0	BIOCHEMISTRY	10
14.0 – 15.0 SKILLS. 1.0	HISTOLOGY & EMBRYOLOGY	30
16.0 SKILLS. 1.0	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

SbMCQ: Multiple Choice Questions which are based on a clinical, research or daily life scenario

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

**WEEKLY COMMON COMPULSORY and MED 103 COURSE SCHEDULE
2021-2022 EDUCATION YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
09:00-09:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201 (FALL) & TKL 202 SPRING ONLINE	
10:00-10:50	MED 104 (4E01)	MED 102** (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201 (FALL) & TKL 202 SPRING ONLINE	
11:00-11:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		
12:00-12:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	LUNCH BREAK	LUNCH BREAK
13:00-13:50	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	HTR 301&302 (FALL&SPRING) ONLINE	HTR 301 HTR 301&302 (FALL&SPRING) ONLINE*
14:00-14:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)	HTR 301&302 (FALL&SPRING) ONLINE	HTR 301&302 (FALL&SPRING) ONLINE*
15:00-15:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)	MED 104 (4E01) ONLINE	
16:00-16:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)	MED 104 (4E01) ONLINE	
17:00-17:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)		
18:00-19:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
19:00-20:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
20:00-22:00							

MED103 Anatomical Drawing Course will be held online on Tuesdays between 6-8 pm * For international students ^a

COMMITTEE IV -TISSUE II
I. WEEK / 28 Feb – 5 March 2022

	Monday 28-Feb-2022	Tuesday 1-Mar-2021	Wednesday 2-Mar-2021	Thursday 3- Mar-2022	Friday 4-Mar-2022		Saturday 5-Mar-2022
09.00- 09.50	PBL Session	Lecture / ICP I Basic Life Support and Heimlich Maneuver <i>Güldal İzbırak</i>	Lecture ICP I Legal Aspect of First Aid <i>Elif Vatanoğlu Lutz</i>	Lecture Extracellular Matrix <i>Turgay İsbir</i>	Lecture Digital recording of biomedical signals <i>Bilge Güvenç Tuna</i>		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
10.00- 10.50		Lecture / ICP I Basic Life Support and Heimlich Maneuver <i>Güldal İzbırak</i>	Lecture ICP I Legal Aspect of First Aid <i>Elif Vatanoğlu Lutz</i>	Lecture Extracellular Matrix <i>Turgay İsbir</i>	Lecture Main Concepts in Biostatistics <i>E. Çiğdem Keleş</i>		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00- 11.50		Lecture / ICP I Shock and Bleeding Control <i>Güldal İzbırak</i>	Lecture Muscles of the Am <i>Erdem Söztutar</i>	Lecture Muscles of the Forearm <i>Erdem Söztutar</i>	Lecture Main Concepts in Biostatistics <i>E. Çiğdem Keleş</i>		Independent Learning
12.00- 12.50	Independent Learning	Lecture / ICP I Burns, Freezing, Frostbite <i>Özlem Tannöver</i>	Lecture Muscles of the Arm <i>Erdem Söztutar</i>	Lecture Muscles of the Forearm <i>Erdem Söztutar</i>	Independent Learning		Lunch Break
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break		Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
14.00- 14.50	Introductory Session Introduction to Committee IV <i>Head of Committee IV</i>	Lecture Muscles of the Shoulder Girdle <i>Erdem Söztutar</i>	Lecture Histology of Adipose Tissue <i>Alev Cumbul</i>	Independent Learning	ELECTIVE WEEK IV	Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
15.00- 15.50	Independent Learning	Lecture Muscles of the Shoulder Girdle and Axilla <i>Erdem Söztutar</i>	Lecture Histology of Cartilage Tissue <i>Alev Cumbul</i>	Independent Learning			Behavioral Science / Lecture Life Cycle: Pregnancy through Preschool <i>Instructors</i>
16.00- 16.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning	ELECTIVE WEEK IV	Behavioral Science / Lecture Life Cycle; School Age, Adolescence and Adulthood <i>Instructors</i>
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning			Independent Learning

COMMITTEE IV - TISSUE II
II. WEEK / 7 – 12 March 2022

	Monday 7-Mar-2022	Tuesday 8-Mar -2022	Wednesday 9-Mar -2022	Thursday 10-Mar-2022	Friday 11-Mar-2022		Saturday 12-Mar-2022
09.00- 09.50	PBL Session	Lecture / ICP I Injuries <i>Arzu Akalin</i>	Lecture Frequency Distributions <i>E. Çiğdem Keleş</i>	Independent Learning	Lecture Extracellular Matrix <i>Turgay İsbir</i>		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
10.00- 10.50		Lecture / ICP I Foreign Objects <i>Arzu Akalin</i>	Lecture Frequency Distributions <i>E. Çiğdem Keleş</i>	Independent Learning	Lecture Classification of Carbohydrates, General Features of Carbohydrates <i>İnci Özden</i>		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00- 11.50		Lecture / ICP I Fractures and Dislocation <i>Özlem Tannıöver</i>	Lecture Histology of Bone Tissue; Microscopic Structure <i>Alev Cumbul</i>	Lecture Nerves of the Upper Limb <i>Erdem Söztutar</i>	Lecture Monosaccharide Derivatives, Disaccharides, Polysaccharides, Starch, Glycogen <i>İnci Özden</i>		Independent Learning
12.00- 12.50	Independent Learning	Lecture / ICP I The Unconscious Casualty <i>Güldal İzbirak</i>	Lecture Extracellular Matrix <i>Turgay İsbir</i>	Lecture Vasculature of the Upper Limb <i>Erdem Söztutar</i>	Independent Learning		Lunch Break
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break		Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
14.00- 14.50	Lecture Muscles of the Hand <i>Erdem Söztutar</i>	Lecture Brachial Plexus <i>Erdem Söztutar</i>	Independent Learning	Lecture Glycerophospholipids, Sphingophospholipids <i>İnci Özden</i>	ELECTIVE WEEK V	Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
15.00- 15.50	Lecture Muscles of the Hand <i>Erdem Söztutar</i>	Lecture Brachial Plexus <i>Erdem Söztutar</i>	Laboratory / Anatomy Muscles of the Upper limb <i>Erdem Söztutar</i> Group C	Lecture Glycerophospholipids, Sphingophospholipids <i>İnci Özden</i>			Behavioral Science / Lecture The Biological Bases of Behavior <i>Instructors</i>
16.00- 16.50	Independent Learning	Independent Learning	Laboratory / Anatomy Muscles of the Upper limb <i>Erdem Söztutar</i> Group B	Independent Learning	Independent Learning	ELECTIVE WEEK V	Behavioral Science / Lecture The Biological Bases of Behavior <i>Instructors</i>
17.00-17.50	Independent Learning	Independent Learning	Laboratory / Anatomy Muscles of the Upper limb <i>Erdem Söztutar</i> Group A	Independent Learning			Independent Learning

COMMITTEE IV - TISSUE II
III. WEEK / 14-19 March 2022

	Monday 14-Mar-2022	Tuesday 15-Mar-2022	Wednesday 16-Mar-2022	Thursday 17-Mar-2022	Friday 18-Mar-2022		Saturday 19-Mar-2022
09.00- 09.50	Independent Learning	Lecture / ICP I Drowning <i>Güldal İzbirak</i>	Lecture Mechanical Properties of Biomaterials <i>Bilge Güvenç Tuna</i>	Independent Learning	Lecture Classification of Lipids, General Features of Lipids <i>İnci Özden</i>		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
10.00- 10.50	Laboratory / Anatomy Nerves and Vessels of the Upper limb Group B <i>Erdem Söztutar</i>	Lecture / ICP I Poisoning <i>Arzu Akalın</i>	Lecture Digital recording of biomedical signals <i>Bilge Güvenç Tuna</i>	Independent Learning	Lecture Vasculature of the Head <i>Erdem Söztutar</i>		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00- 11.50	Laboratory / Anatomy Nerves and Vessels of the Upper limb Group A <i>Erdem Söztutar</i>	Lecture / ICP I Insect Bite <i>Arzu Akalın</i>	Lecture Histology of Bone Tissue; Ossification <i>Alev Cumbul</i>	Independent Learning	Lecture Nerves of the Head <i>Erdem Söztutar</i>		Independent Learning
12.00- 12.50	Laboratory / Anatomy Nerves and Vessels of the Upper limb Group C <i>Erdem Söztutar</i>	Lecture / ICP I Patient-Casualty Transportation Techniques <i>Özlem Tannıöver</i>	Lecture Development of the Axial Skeleton and Limb <i>Alev Cumbul</i>	Independent Learning			Lunch Break
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break		Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
14.00- 14.50	Independent Learning	Lecture Cervical Muscles and Triangles <i>Erdem Söztutar</i>	Lecture Muscles of the Head and Scalp <i>Erdem Söztutar</i>	Lecture Glycosaminoglycans, Structures and Functions <i>İnci Özden</i>	ELECTIVE WEEK VI	Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
15.00- 15.50	Independent Learning	Lecture Cervical Muscles <i>Erdem Söztutar</i>	Lecture Muscles of the Head and Scalp <i>Erdem Söztutar</i>	Lecture Monosaccharide Derivatives, Disaccharides, Polysaccharides, Starch, Glycogen <i>İnci Özden</i>			Behavioral Science / Lecture Life Cycle; Aging, Death and Bereavement <i>Instructors</i>
16.00- 16.50	Independent Learning	Independent Learning	Independent Learning	Lecture Stress-Strain, Stiffness <i>Bilge Güvenç Tuna</i>	Independent Learning	ELECTIVE WEEK VI	Behavioral Science / Lecture Life Cycle; Aging, Death and Bereavement <i>Instructors</i>
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning			Independent Learning

COMMITTEE IV - TISSUE II
IV. WEEK / 21–26 Mar 2022

	Monday 21-Mar-2022			Tuesday 22-Mar-2022		Wednesday 23-Mar-2022	Thursday 24-Mar-2022	Friday 25- Mar-2022		Saturday 26- Mar-2022
09.00- 09.50	Lecture Classification of Lipids, General Features of Lipids <i>Inci Özden</i>			Clinical Skills Learning ICP I Basic Life Support and Heimlich Maneuver <i>Serdar Özdemir</i>		Lecture Graphics <i>E. Çiğdem Keleş</i>	Independent Learning	Lecture Saturated and Unsaturated Fatty Acids, Essential Fatty Acids <i>Inci Özden</i>		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
10.00- 10.50	Lecture Saturated and Unsaturated Fatty Acids, Essential Fatty Acids <i>Inci Özden</i>			Group B	Group C Sci. R. And P.I Small Group Studies	Group A,D and E Independent Learning	Lecture Measures of Central Tendencies <i>E. Çiğdem Keleş</i>	Independent Learning	Lecture Isoprene Derivatives, Steroids, Bile Acids <i>Inci Özden</i>	Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00- 11.50	Lecture Histology of Nerve Tissue: Neuron Types <i>Aylin Yaba Uçar</i>						Lecture Cervical Plexus <i>Erdem Söztutar</i>	Lecture Eicosanoids <i>Inci Özden</i>	Lecture Isoprene Derivatives, Steroids, Bile Acids <i>Inci Özden</i>	Independent Learning
12.00- 12.50	Independent Learning						Lecture Nerves and Vasculature of the Neck <i>Erdem Söztutar</i>	Lecture Eicosanoids <i>Inci Özden</i>	Independent Learning	Lunch Break
13.00- 13.50	Lunch Break			Lunch Break		Lunch Break	Lunch Break	Lunch Break		Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
14.00- 14.50	ICP I Basic Life Support and Heimlich Maneuver <i>Serdar Özdemir</i>			Laboratory / Anatomy Muscles of the head and neck <i>Erdem Söztutar</i> Group A		Lecture Histology of Nerve Tissue: Glia Types <i>Aylin Yaba Uçar</i>	Lecture Elasticity <i>Bilge Güvenç Tuna</i>	ELECTIVE Midterm Exam	Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
15.00- 15.50	Group A	Group B Sci. R. And P.I Small Group Studies	Group C,D and E Independent Learning	Laboratory / Anatomy Muscles of the head and neck <i>Erdem Söztutar</i> Group C		Lecture Histology of Nerve Tissue: General Specification <i>Aylin Yaba Uçar</i>	Lecture Shear Stress, Poisson's Law <i>Bilge Güvenç Tuna</i>			Behavioral Science / Lecture Sleep and Sleep Disorders <i>Instructors</i>
16.00- 16.50				Laboratory / Anatomy Muscles of the head and neck <i>Erdem Söztutar</i> Group B		Independent Learning	Independent Learning	Independent Learning	ELECTIVE Midterm Exam	Behavioral Science / Lecture Substance Related Disorders <i>Instructors</i>
17.00-17.50				Independent Learning		Independent Learning	Independent Learning			Independent Learning

COMMITTEE IV - TISSUE II
V. WEEK / 28 March-2 April 2022

	Monday 28-Mar-2022			Tuesday 29-Mar -2022		Wednesday 30-Mar-2022	Thursday 31-Mar-2022	Friday 01-Apr -2022		Saturday 02-Apr -2022
09.00- 09.50	Lecture Extracellular Matrix <i>Turgay İsbir</i>			Clinical Skills Learning ICP I Basic Life Support and Heimlich Maneuver <i>Serdar Özdemir</i>		Independent Learning	Independent Learning	Independent Learning		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
10.00- 10.50	Lecture Amino Acids, General Features, Classification <i>Inci Özden</i>			Group D	Group E Sci. R. And P.I Small Group Studies	Group A,B and C Independent Learning	Laboratory / Histology&Embryology Histology of Cartilage Tissue and Bone Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i> Group A	Independent Learning	Lecture Triacylglycerols <i>Inci Özden</i>	Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00- 11.50	Lecture Amino Acids, General Features, Classification <i>Inci Özden</i>						Laboratory / Histology&Embryology Histology of Cartilage Tissue and Bone Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i> Group B	Lecture Biology of Oxidative Stress <i>Turgay İsbir</i>	Lecture Triacylglycerols <i>Inci Özden</i>	Independent Learning
12.00- 12.50	Independent Learning						Laboratory / Histology&Embryology Histology of Cartilage Tissue and Bone Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i> Group C	Lecture Biology of Oxidative Stress <i>Turgay İsbir</i>	Lecture Muscle of the Thoracic Wall <i>Erdem Söztutar</i>	Lunch Break
13.00- 13.50	Lunch Break			Lunch Break		Lunch Break	Lunch Break	Lunch Break		Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
14.00- 14.50	Clinical Skills Learning ICP I Basic Life Support and Heimlich Maneuver <i>Serdar Özdemir</i>			Laboratory / Anatomy Nerves and Vessels of the Head and Neck <i>Erdem Söztutar</i> Group C		Independent Learning	Independent Learning	ELECTIVE WEEK VIII	Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
15.00- 15.50	Group C	Group D Sci. R. And P.I Small Group Studies	Group A,B and E Independent Learning	Laboratory / Anatomy Nerves and Vessels of the Head and Neck <i>Erdem Söztutar</i> Group B						Behavioral Science / Lecture Psychoanalythic Theory and Defense Mechanism <i>Instructors</i>
16.00- 16.50				Laboratory / Anatomy Nerves and Vessels of the Head and Neck <i>Erdem Söztutar</i> Group A				Independent Learning	ELECTIVE WEEK VIII	Behavioral Science / Lecture Psychoanalythic Theory and Defense Mechanism <i>Instructors</i>
17.00-17.50				Independent Learning						Independent Learning

COMMITTEE IV - TISSUE II
VI. WEEK / 4-9 April 2022

	Monday 4-Apr -2022			Tuesday 5-Apr -2022		Wednesday 6-Apr -2022		Thursday 7-Apr -2022	Friday 8-Apr -2022		Saturday 9-Apr -2022		
09.00- 09.50	Lecture Glycoproteins, Collagen, α keratin <i>Inci Özden</i>			Clinical Skills Learning ICP I Patient-Casualty Transportation / Bandaging Techniques <i>Serdar Özdemir</i>		Lecture Biochemistry Spectrophotometry <i>Jale Çoban & Müge Kopuz</i>		Lecture Primary, Secondary, Tertiary, Quaternary Structures of Proteins <i>Inci Özden</i>	Lecture Nucleotides <i>Inci Özden</i>		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>		
10.00- 10.50	Lecture Glycoproteins, Collagen, α keratin <i>Inci Özden</i>			Group A	Group B Sci. R. And P.I Small Group Studies	Group C,D and E Indep ende nt Learn ing	Laboratory / Med. Biology Oxidative Stress and Antioxidant System <i>Turgay Isbir</i> Group C	Laboratory / Biochemistry Spectrophotome try <i>Jale Çoban & Müge Kopuz</i> Group E	Lecture Primary, Secondary, Tertiary, Quaternary Structures of Proteins <i>Inci Özden</i>		Lecture Nucleotides <i>Inci Özden</i>	Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>	
11.00- 11.50	Lecture Muscle of the Abdominal Wall <i>Erdem Söztutar</i>						Group E	Group D	Lecture Innate Immunity <i>Gülderen Yanıkkaya Demirel</i>		Lecture Measures of Central Dispersion <i>E. Çiğdem Keleş</i>		Independent Learning
12.00- 12.50	Lecture Muscle of the Abdominal Wall and Inguinal Canal <i>Erdem Söztutar</i>						Group D	Group C	Lecture Innate Immunity <i>Gülderen Yanıkkaya Demirel</i>		Independent Learning		Lunch Break
13.00- 13.50	Lunch Break			Lunch Break		Lunch Break		Lunch Break	Lunch Break		Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>		
14.00- 14.50	Clinical Skills Learning ICP I Basic Life Support and Heimlich Maneuver <i>Serdar Özdemir</i>			Lecture Measures of Central Tendencies <i>E. Çiğdem Keleş</i>		Group A	Group B	Lecture Nerves and Vasculature of the Abdominal Wall <i>Erdem Söztutar</i>	ELECTIVE WEEK IX	Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>		
15.00- 15.50	Group E	Group A Sci. R. And P.I Small Group Studies	Group A,B and C Independent Learning	Lecture Measures of Central Tendencies <i>E. Çiğdem Keleş</i>		Group B	Group A	Lecture Nerves and Vasculature of the Thoracic Wall <i>Erdem Söztutar</i>			Behavioral Science / Lecture Learning Theory <i>Instructors</i>		
16.00- 16.50				Independent Learning		Independent Learning		Independent Learning	Independent Learning	ELECTIVE WEEK IX	Behavioral Science / Lecture Perception <i>Instructors</i>		
17.00-17.50				Independent Learning		Behavioral Science / Lecture Sleep and Sleep Disorders <i>Instructors</i>		Independent Learning		Independent Learning	Independent Learning		Independent Learning
18:00-18:50	Independent Learning			Behavioral Science / Lecture Substance Related Disorders <i>Instructors</i>		Independent Learning		Independent Learning	Independent Learning				
19:00-19:50	Independent Learning												

COMMITTEE IV - TISSUE II
VII. WEEK / 11- 16 Apr 2022

	Monday 11-Apr -2022			Tuesday 12-Apr -2022		Wednesday 13-Apr-2022	Thursday 14 Apr-2022	Friday 15-Apr-2022		Saturday 16-Apr-2022
09.00- 09.50	Lecture Enzymes, Kinetics,Regulatory Enzymes <i>Inci Özden</i>			Clinical Skills Learning ICP I Patient-Casualty Transportation / Bandaging Techniques <i>Serdar Özdemir</i>		Lecture Measures of Central Dispersion <i>E. Çiğdem Keleş</i>	Independent Learning	Lecture ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation <i>Inci Özden</i>		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
10.00- 10.50	Lecture Enzymes, Kinetics, Regulatory Enzymes <i>Inci Özden</i>			Group C	Group D Sci. R. And P.I Small Group Studies	Group A,B and E Independent Learning	Independent Learning	Lecture ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation <i>Inci Özden</i>		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00- 11.50	Discussion (Large Group) Overview <i>Erdem Söztutar</i>						Lecture ATP Production, Substrate Level Phosphorylation, Oxidative Phosphorylation <i>Inci Özden</i>	Lecture Adaptive Immunity <i>Gülderen Yanıkkaya Demirel</i>	Lecture Rates and Ratios <i>E. Çiğdem Keleş</i>	Independent Learning
12.00- 12.50	Discussion (Large Group) Overview <i>Erdem Söztutar</i>						Lecture Oxidative Decarboxylation <i>Inci Özden</i>	Lecture Adaptive Immunity <i>Gülderen Yanıkkaya Demirel</i>	Independent Learning	Lunch Break
13.00- 13.50	Lunch Break			Lunch Break		Lunch Break	Lunch Break	Lunch Break		Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
14.00- 14.50	Clinical Skills Learning ICP I Patient-Casualty Transportation / Bandaging Techniques <i>Serdar Özdemir</i>			Laboratory / Anatomy Thoracic and abdominal walls <i>Erdem Söztutar</i> Group B	Laboratory / Histology&Embryology Histology of Nerve Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i> Group A	Independent Learning	Lecture International Enzyme Commission Classification of Enzymes <i>Inci Özden</i>	ELECTIVE WEEK X	Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
15.00- 15.50	Group B	Group C Sci. R. And P.I Small Group Studies	Group C,D and E Independent Learning	Laboratory / Anatomy Thoracic and abdominal walls <i>Erdem Söztutar</i> Group C	Laboratory / Histology&Embryology Histology of Nerve Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i> GroupB		Lecture International Enzyme Commission Classification of Enzymes <i>Inci Özden</i>			Behavioral Science / Lecture Perception <i>Instructors</i>
16.00- 16.50				Laboratory / Anatomy Thoracic and abdominal walls <i>Erdem Söztutar</i> Group A	Laboratory / Histology&Embryology Histology of Nerve Tissue <i>Alev Cumbul & Aylin Yaba Uçar</i> Group C		Independent Learning	Independent Learning	ELECTIVE WEEK X	Behavioral Science / Lecture Emotion <i>Instructors</i>
17.00-17.50				Independent Learning			Independent Learning			Independent Learning

COMMITTEE IV - TISSUE II
VIII. WEEK 18-22 Apr 2022

	Monday 18-Apr-2022	Tuesday 19-Apr-2022	Wednesday 20-Apr-2022	Thursday 21-Apr-2022	Friday 22-Apr-2022				
09.00- 09.50	Independent Learning	Independent Learning	Assessment Session Histology&Embryology Medical Biology Anatomy Biochemistry (Practical Exam)	Independent Learning	Independent Learning				
10.00- 10.50									
11.00- 11.50									
12.00- 12.50									
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Assessment Session Committee IV (MCQ)	Lunch Break				
14.00- 14.50	Independent Learning	Independent Learning	Independent Learning		Program Evaluation Session Review of the Exam Questions Evaluation of the Committee IV Program <i>Head of Committee</i>	ELECTIVE WEEK XI	Independent Learning		
15.00- 15.50									
16.00- 16.50				Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning	ELECTIVE WEEK XI
17.00-17.50									

MED 104 - COMMITTEE V - ENERGY and METABOLISM

DISTRIBUTION of LECTURE HOURS

April 25, 2022 – June 10, 2022

COMMITTEE DURATION: 6 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	TOTAL
	DISCIPLINE			
	ANATOMY	14	3Grx2H	16
	BEHAVIORAL SCIENCES	10	0	10
	BIOCHEMISTRY	22	5Grx2H	24
	BIOSTATISTICS	12	5Grx2H	14
	HISTOLOGY and EMBRYOLOGY	9	5Grx1H	10
	MEDICAL BIOLOGY	7	0	7
	IMMUNOLOGY	4	0	4
	PBL	6		6
	TOTAL	84	7	91
	INDEPENDENT LEARNING HOURS			75
OTHER COURSES				
MED 102	INTRODUCTION to CLINICAL PRACTICE- I	0	5Grx4H	3
MED 103	ANATOMICAL DRAWING	0	8	8
HTR 302	ATATÜRK'S PRINCIPLES & HISTORY OF MODERN TURKEY	8	0	8
TKL 202	TURKISH LANGUAGE & LITERATURE	8	0	8
MED 611-632	FREE ELECTIVE COURSE	8	0	8
	TOTAL	108	19	126

Coordination Committee	Head	Alev CUMBUL, PhD, Assist. Prof.
	Secretary	Aikaterini PANTELI, MD, Assist. Prof.
	Member	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.
	Member	Erdem Söztutar, MD, Assist. Prof.

COMMITTEE V - ENERGY AND METABOLISM
LECTURERS

MED 104-BASIC MEDICAL SCIENCES I	
DISCIPLINES	LECTURERS
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof
BEHAVIORAL SCIENCES	Instructor
BIOCHEMISTRY	İnci ÖZDEN, PhD, Prof.
	Jale SARIÇOBAN, MD, Prof.
	Müge KOPUZ ALVAREZ NOVAL, PhD, Assist. Prof.
BIOSTATISTICS	E. Çiğdem KELEŞ, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin Yaba UÇAR, PhD, Assoc. Prof.
	Alev CUMBUL, PhD, Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Soner DOĞAN, PhD, Prof.
	Deniz KIRAÇ, PhD, Assoc. Prof.
	Seda Güleç YILMAZ, PhD, Assoc. Prof.
SCIENTIFIC RESEARCH AND PROJECT I	Bayram YILMAZ, PhD, Prof.
	Bilge GÜVENÇ TUNA, PhD, Assoc. Prof.

OTHER COURSES

INTRODUCTION to CLINICAL PRACTICE I (ICP-I)	Özlem TANRIÖVER, MD, Prof.
	Arzu AKALIN, MD, Assist. Prof.
	Serdar ÖZDEMİR, MD, Assist. Prof.
ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist. Prof.
ATATÜRK'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 the 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;

KNOWLEDGE

- 1.0 describe anatomical properties of the lower extremity muscles.
- 2.0 describe the clinical implications of the anatomical features of the lower extremity muscles..
- 3.0 understand the physiological bases of emotions and related behavior, human sexuality and the influences of culture in illness;
- 4.0 define abnormality; compare and contrast psychological disorders on the DSM system; determination of violence and abuse; legal and ethical issues in medicine and appropriate physician-patient relationship.
- 5.0 explain ATP synthesis in the 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 for probability
 - 9.1. describe the term of probability
 - 9.2. explain the rules of the probability
 - 9.3. list the probability distributions
- 10.0 for diagnosing tests
 - 10.1. list the names of the measurements that used to evaluate the accuracy of a diagnostic test. ,
 - 10.2 to explain the meanings of the values of these measurements.
- 11.0 for epidemiology,
 - 11.1. to explain the meaning of epidemiology,
 - 11.2. list the names of epidemiological studies.
 - 11.3. list the risk measurements that are used in epidemiological studies.
- 12.0 list developmental events respectively from somitogenesis to neurulation
- 13.0 Describe the process of foldings, angiogenesis and list developmental events respectively from organogenesis to parturition
- 14.0 explain developmental link between embryonic layers and tissues that form organs.
- 15.0 explain infertility, contraception and assisted reproductive techniques

- 16.0 explain the development of congenital anomalies
- 17.0 define the features of the 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.

SKILLS

- 1.0 apply basic laboratory techniques and use of equipment.
- 2.0 for biostatistics,
 - 2.1. apply probability techniques for a given problem
 - 2.2. apply the measurements to evaluate the accuracy of a diagnostic test.
 - 2.3 apply risk measurements to evaluate the risk of the exposure in a given study.
- 3.0 use biopsychosocial approach on medical practice.
- 4.0 display (demonstrate) scientific reasoning, information literacy and skills of self-directed, life-long learning.
- 5.0 present and write a scientific article

ATTITUDES

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

COMMITTEE V - ENERGY AND METABOLISM
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER / INSTRUCTOR	DISTRIBUTION 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	BIOCHEMISTRY	Dr. İ. Özden	28	10	10	48
9.0-11.0	BIostatISTICS	Dr. Ç. Keleş	15	6	6	27
12.0 - 16.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Yaba Uçar	11	4	4	19
		Dr. A. Cumbul				
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	100	36/200[#]	36/200[#]	172
LEARNING OBJECTIVES		DISCIPLINE	DISTRIBUTION of LAB POINTS			
			LPE			
1.0 - 2.0 SKILLS. 1.0		ANATOMY	60			
5.0 - 8.0 SKILLS. 1.0		BIOCHEMISTRY	10			
9.0-11.0 SKILLS. 2.0		BIostatISTICS	10			
12.0 - 16.0 SKILLS. 1.0		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

SbMCQ: Multiple Choice Questions which are based on a clinical, research or daily life scenario

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

**WEEKLY COMMON COMPULSORY and MED 103 COURSE SCHEDULE
2021-2022 EDUCATION YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
09:00-09:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201 (FALL) & TKL 202 SPRING ONLINE	
10:00-10:50	MED 104 (4E01)	MED 102** (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	TKL201 (FALL) & TKL 202 SPRING ONLINE	
11:00-11:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		
12:00-12:50	MED 104 (4E01)	MED 102 (CSL)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	LUNCH BREAK	LUNCH BREAK
13:00-13:50	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	HTR 301 &302 (FALL&SPRING) ONLINE	HTR 301 &302 (FALL&SPRING) ONLINE*
14:00-14:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)	HTR 301 &302 (FALL&SPRING) ONLINE	HTR 301 &302 (FALL&SPRING) ONLINE*
15:00-15:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)	Elective Course (SPRING)	MED 104 (4E01) ONLINE	
16:00-16:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)	MED 104 (4E01) ONLINE	
17:00-17:50	MED 104 (4E01)	MED 104 (4E01)	MED 104 (4E01)		Elective Course (SPRING)		
18:00-19:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
19:00-20:00	AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*	MED 103 (C937) ONLINE		AFYA 101 (FALL) & AFYA 102 (SPRING) ONLINE*			
20:00-22:00							

MED103 Anatomical Drawing Course will be held online on Tuesdays between 6-8 pm * For international students ^a

COMMITTEE V-ENERGY AND METABOLISM

I. WEEK / 25 – 30 Apr 2022

	Monday 25-Apr-2022			Tuesday 26-Apr-2022		Wednesday 27-Apr-2022	Thursday 28-Apr-2022	Friday 29-Apr-2022		Friday 30-Apr-2022	
09.00- 09.50	PBL Session			Clinical Skills Learning ICP I Patient-Casualty Transportation / Bandaging Techniques <i>Serdar Özdemir</i>		Lecture Muscles of the Pelvic Girdle (Gluteal Region) <i>Erdem Söztutar</i>	Independent Learning	PBL Session		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>	
10.00- 10.50				Group E	Group A Sci. R. And P.I Small Group Studies	Group B,C and D Independent Learning	Lecture Muscles of the Pelvic Girdle <i>Erdem Söztutar</i>			Independent Learning	Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00- 11.50							Lecture Probability <i>E. Çiğdem Keleş</i>			Lecture Muscles of the Thigh <i>Erdem Söztutar</i>	Independent Learning
12.00- 12.50	Independent Learning				Lecture Probability <i>E. Çiğdem Keleş</i>	Lecture Muscles of the Thigh <i>Erdem Söztutar</i>	Independent Learning		Lunch Break		
13.00- 13.50	Lunch Break			Lunch Break		Lunch Break	Lunch Break	Lunch Break		Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>	
14.00- 14.50	Clinical Skills Learning ICP I Patient-Casualty Transportation / Bandaging Techniques <i>Serdar Özdemir</i>			Introductory Session Introduction to Committee V <i>Secretary of Committee V</i>		Lecture Third to Eight Weeks: Embryonic Period (Somitogenesis, Mesoderm Organisation) <i>Alev Cumbul</i>	Lecture Transport Through Biological Membranes <i>İnci Özden</i>	ELECTIVE WEEK XII	Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>	
15.00- 15.50	Group D	Group E Sci. R. And P.I Small Group Studies	Group A,B and C Independent Learning	Independent Learning		Lecture Third to Eight Weeks: Embryonic Period (Neurulation; Neuroectoderm Organization; Angiogenesis) <i>Alev Cumbul</i>	Lecture Transport Through Biological Membranes <i>İnci Özden</i>			Behavioral Science / Lecture Culture and Illness <i>Instructors</i>	
16.00- 16.50						Independent Learning	Independent Learning			Independent Learning	Behavioral Science / Lecture Culture and Illness <i>Instructors</i>
17.00-17.50						Independent Learning	Independent Learning			Independent Learning	Independent Learning

COMMITTEE V - ENERGY AND METABOLISM
II. WEEK / 2 - 7 May 2022

	Monday 2-May-2022	Tuesday 3-May-2022	Wednesday 4-May-2022	Thursday 5-May-2022	Friday 6-May-2022		Saturday 7-May-2022
09.00- 09.50	RELIGIOUS HOLIDAY	RELIGIOUS HOLIDAY	RELIGIOUS HOLIDAY	Independent learning	Independent learning		Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
10.00- 10.50							Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00- 11.50							Independent Learning
12.00- 12.50							Lunch Break
13.00- 13.50					Lunch Break		Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
14.00- 14.50					ELECTIVE WEEK XIII	Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
15.00- 15.50							Independent Learning
16.00- 16.50					Independent Learning	ELECTIVE WEEK XIII	Independent Learning
17.00-17.50							Independent Learning

COMMITTEE V - ENERGY AND METABOLISM

III. WEEK / 9 - 14 May 2022

	Monday 9-May-2022	Tuesday 10-May-2022	Wednesday 11-May-2022	Thursday 12-May-2022	Friday 13-May-2022	Saturday 14-May-2022
09.00-09.50	Lecture Muscles of the Leg <i>Erdem Söztutar</i>	Clinical Skills Learning ICP I Vital Signs <i>Cem Şimşek & Serdar Özdemir</i>	Lecture Genome of Mitochondria <i>Turgay İsbir</i>	Independent Learning	Lecture Theoretical Distributions <i>E. Çiğdem Keleş</i>	Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
10.00-10.50	Lecture Muscles of the Leg <i>Erdem Söztutar</i>	Group B Group C Sci. R. And P.I Small Group Studies	Lecture Genome of Mitochondria <i>Turgay İsbir</i>	Independent Learning	Lecture Theoretical Distributions <i>E. Çiğdem Keleş</i>	Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00-11.50	Lecture Foldings and Body cavities <i>Alev Cumbul</i>		Lecture Muscles of the Foot <i>Erdem Söztutar</i>	Lecture Glycogenesis <i>İnci Özden</i>	Lecture Theoretical Distributions <i>E. Çiğdem Keleş</i>	Independent Learning
12.00-12.50	Lecture / ICP I Vital Signs <i>Özlem Tannöver</i>		Lecture Muscles of the Foot <i>Erdem Söztutar</i>	Lecture Glycogenesis <i>İnci Özden</i>	Independent Learning	Lunch break
13.00-13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch break	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
14.00-14.50	Clinical Skills Learning ICP I Vital Signs <i>Cem Şimşek & Serdar Özdemir</i>	Lecture Transport Through Biological Membranes <i>İnci Özden</i>	Lecture 3rd month to birth: Organogenesis and Fetal Period <i>Aylin Yaba Uçar</i>	Lecture Twins and Parturition <i>Aylin Yaba Uçar</i>	ELECTIVE WEEK XIV Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
15.00-15.50	Group A Group B Sci. R. And P.I Small Group Studies	Lecture Transport Through Biological Membranes <i>İnci Özden</i>	Lecture Extraembryonic Structures:Placenta, Chorion, Amnion <i>Aylin Yaba Uçar</i>	Lecture Genome of Mitochondria <i>Turgay İsbir</i>		Behavioral Science / Lecture Human Sexuality <i>Instructors</i>
16.00-16.50		Independent Learning	Independent Learning	Independent Learning		Behavioral Science / Lecture Violence and Abuse <i>Instructors</i>
17.00-17.50		Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning

COMMITTEE V - ENERGY AND METABOLISM
IV. WEEK / 16 – 21 May 2022

	Monday 16-May-2022			Tuesday 17-May-2022			Wednesday 18-May-2022	Thursday 19-May-2022	Friday 20-May-2022	Saturday 21-May-2022
09.00- 09.50	Clinical Skills Learning ICP I Vital Signs <i>E. Gökhan Gencer & Serdar Özdemir</i>			Clinical Skills Learning ICP I Vital Signs <i>E. Gökhan Gencer & Serdar Özdemir</i>			Lecture Digestion and Absorption of Carbohydrates <i>İnci Özden</i>	NATIONAL HOLIDAY	Independent Learning	Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
10.00- 10.50	Group C	Group D Sci. R. And P.I Small Group Studies	Group A,C and E Independent Learning	Group D	Group E Sci. R. And P.I Small Group Studies	Group A,B and C Independent Learning	Lecture Digestion and Absorption of Carbohydrates <i>İnci Özden</i>			Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00- 11.50							Lecture Lumbosacral Plexus <i>Erdem Söztutar</i>			Independent Learning
12.00- 12.50							Lecture Lumbosacral Plexus <i>Erdem Söztutar</i>			
13.00- 13.50	Lunch Break			Lunch Break			Lunch Break		Lunch Break	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
14.00- 14.50	Lecture Congenital Anomalies and Teratology <i>Alev Cumbul</i>			Laboratory / Anatomy Muscles of the Lower Limb <i>Erdem Söztutar</i> Group A			Lecture Theoretical Distributions <i>E. Çiğdem Keleş</i>		Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
15.00- 15.50	Lecture Digestion and Absorption of Carbohydrates <i>İnci Özden</i>			Laboratory / Anatomy Muscles of the Lower Limb <i>Erdem Söztutar</i> Group B			Lecture Diagnostic Testing <i>E. Çiğdem Keleş</i>			Behavioral Science / Lecture The Physician-Patient Relationship <i>Instructors</i>
16.00- 16.50	Independent Learning			Laboratory / Anatomy Muscles of the Lower Limb <i>Erdem Söztutar</i> Group C			Independent Learning			Behavioral Science / Lecture The Physician-Patient Relationship <i>Instructor</i>
17.00-17.50				Independent Learning				Independent Learning		

COMMITTEE V - ENERGY AND METABOLISM
V. WEEK / 23 – 28 May 2022

	Monday 23-May-2022	Tuesday 24-May-2022			Wednesday 25-May-2022	Thursday 26-May-2022	Friday 27-May-2022	Saturday 28-May-2022
09.00- 09.50	Lecture Glycogenolysis <i>Inci Özden</i>	Clinical Skills Learning ICP I Vital Signs <i>E. Gökhan Gencer & Serdar Özdemir</i>			Lecture Glucose Determination in Blood, Occult Blood in Feces, Bleeding Time <i>Müge Kopuz</i>	Independent learning	Lecture The Description of Epidemiology <i>E. Çiğdem Keleş</i>	Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
10.00- 10.50	Lecture Glycogenolysis <i>Inci Özden</i>	Group E	Group A Sci. R. And P.I Small Group Studies	Group B,C and D Independent Learning	Laboratory / Biochemistry Glucose Determination in Blood, Occult Blood in Feces, Bleeding Time <i>Jale Çoban & Müge Kopuz</i> Group A	Independent learning	Lecture Epidemiological Research Methods and Calculation of the Risk <i>E. Çiğdem Keleş</i>	Common Compulsory Course Turkish Language & Literature (TKL202) <i>Instructor</i>
11.00- 11.50	Lecture Nerves of the Lower Limb <i>Erdem Söztutar</i>				Glucose Determination in Blood, Occult Blood in Feces, Bleeding Time <i>Jale Çoban & Müge Kopuz</i> Group B	Lecture Gluconeogenesis <i>Inci Özden</i>	Lecture Epidemiological Research Methods and Calculation of the Risk <i>E. Çiğdem Keleş</i>	Independent Learning
12.00- 12.50	Lecture Vasculature of the Lower Limb <i>Erdem Söztutar</i>				Glucose Determination in Blood, Occult Blood in Feces, Bleeding Time <i>Jale Çoban & Müge Kopuz</i> Group C	Lecture Gluconeogenesis <i>Inci Özden</i>	Independent Learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
13.00- 13.50	Lunch Break	Lunch Break			Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Lecture Infertility and Contraception <i>Aylin Yaba Uçar</i>	Laboratory / Anatomy Nerves and Vessels of the Lower limb <i>Erdem Söztutar</i> Group B	Laboratory / Histology&Embryology Developing Human II <i>Alev Cumbul & Aylin Yaba Uçar</i> Group C		Glucose Determination in Blood, Occult Blood in Feces, Bleeding Time <i>Jale Çoban & Müge Kopuz</i> Group D	Lecture Signal Transduction in Immunity <i>Gülderen Yanıkkaya</i> <i>Demirel</i>	Independent learning	Common Compulsory Course Atatürk's Principles & History Of Modern Turkey (HTR 302) <i>Instructor</i>
15.00- 15.50	Lecture Assisted Reproductive Technology <i>Aylin Yaba Uçar</i>	Laboratory / Anatomy Nerves and Vessels of the Lower limb <i>Erdem Söztutar</i> Group C	Laboratory / Histology&Embryology Developing Human II <i>Alev Cumbul & Aylin Yaba Uçar</i> Group A		Glucose Determination in Blood, Occult Blood in Feces, Bleeding Time <i>Jale Çoban & Müge Kopuz</i> Group E	Lecture Cytokines and Immune Markers <i>Gülderen Yanıkkaya</i> <i>Demirel</i>		Behavioral Science/Lecture Legal and Ethical Issues in Medicine <i>Instructors</i>
16.00- 16.50	Independent Learning	Laboratory / Anatomy Nerves and Vessels of the Lower limb <i>Erdem Söztutar</i> Group A	Laboratory / Histology&Embryology Developing Human II <i>Alev Cumbul & Aylin Yaba Uçar</i> Group B		Independent Learning	Independent Learning		Behavioral Science/Lecture Legal and Ethical Issues in Medicine <i>Instructors</i>
17.00-17.50		Independent Learning	Independent Learning					

COMMITTEE V - ENERGY AND METABOLISM
VI. WEEK / 30 May – 4 June 2022

	Monday 30-May-2022	Tuesday 31-May-2022	Wednesday 1-June-2022	Thursday 2-June-2022	Friday 3-June-2022	Saturday 4-June-2022
09.00-09.50	Independent Learning	Lecture Biology of life span <i>Turgay Isbir</i>	Lecture Pentose phosphate pathway <i>Inci Özden</i>	Independent Learning	Discussion (Large Group) Overview <i>Erdem Söztutar</i>	Independent Learning
10.00-10.50	Lecture Glycolysis <i>Inci Özden</i>	Lecture Biology of life span <i>Turgay Isbir</i>	Lecture Pentose phosphate pathway <i>Inci Özden</i>	Independent Learning	Discussion (Large Group) Overview <i>Erdem Söztutar</i>	Independent Learning
11.00-11.50	Lecture Regulation of Glycogenesis and Glycogenolysis <i>Inci Özden</i>	Lecture Fibrinolysis, Fibrinolytic and Antifibrinolytic Agents <i>Inci Özden</i>	Lecture Epidemiological Research Methods and Calculation of the Risk <i>E.Çiğdem Keleş</i>	Laboratory Online / Biostatistics Basic Statistical Calculations on Excel <i>E. Çiğdem Keleş</i>	Lecture Secondary Hemostasis, Procoagulation, Anticoagulation <i>Inci Özden</i>	Independent Learning
12.00-12.50	Lecture Regulation of Glycogenesis and Glycogenolysis <i>Inci Özden</i>	Lecture Fibrinolysis, Fibrinolytic and Antifibrinolytic Agents <i>Inci Özden</i>	Lecture Sampling in Epidemiology <i>E.Çiğdem Keleş</i>	Laboratory Online / Biostatistics Basic Statistical Calculations on Excel <i>E. Çiğdem Keleş</i>	Lecture Secondary Hemostasis, Procoagulation, Anticoagulation <i>Inci Özden</i>	Independent Learning
13.00-13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00-14.50	Independent Learning	Independent Learning	Lecture Biology of Energy and Energy Balance <i>Turgay Isbir</i>	Independent Learning	Independent Learning	Independent Learning
15.00-15.50			Lecture Biology of Energy and Energy Balance <i>Turgay Isbir</i>			Behavioral Science / Lecture Introduction to Psychopathology <i>Instructors</i>
16.00-16.50			Independent Learning			Behavioral Science / Lecture Introduction to Psychopathology <i>Instructors</i>
17.00-17.50						Independent Learning

COMMITTEE V - ENERGY AND METABOLISM
VI. WEEK / 6-10 June 2022

	Monday 6-June-2022	Tuesday 7-June-2022	Wednesday 8-June-2022	Thursday 9-June-2022	Friday 10-June-2022
09.00- 09.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50			Assessment Session Anatomy, Histology&Embryology Biostatistics (Practical Exam)		
11.00- 11.50					
12.00- 12.50					
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Assessment Session Committee V (MCQ)
15.00- 15.50					Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee V Program <i>Head of the Committee</i>
16.00- 16.50					
17.00-17.50					

STUDENT COUNSELING

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

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

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

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

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

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

The expectations from the student are as follows:

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

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

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

The student counseling lists are announced through the Google Classroom pages of the respective phase.

PEER ADVISING PROGRAM

In addition to the Student Counseling program which lasts throughout the six years in the Faculty of Medicine, the Office of Individual and Academic Development under the Dean of Students of Yeditepe University runs a peer advising program for the first-year medical students in cooperation with the Faculty of Medicine.

The aim of the peer advising program is to facilitate the adaptation process of new undergraduate students (first year or freshmen) to the University environment.

Within the scope of the program, each student is assigned a peer advisor who is from upper classes of the same major/ faculty as the freshman. The duration of the peer advising is one academic year during which, peer advisors help students assigned to them for basic questions related to their university education.

Peer advisors gain leadership skills (such as team building, time management, problem-solving, mentoring) that will benefit them in their future professional life/ career while helping first year/ new-comer students by their adaptation process to the university academic life.

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