YEDİTEPE UNIVERSITY

FACULTY OF MEDICINE

PHASE I

ACADEMIC PROGRAM BOOK

2015 - 2016

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

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE I

Contents

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

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

PODG.1. Basic Professional Competencies

POD.1.1. Clinical Competencies

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

POD.1.2. Competencies related to Communication

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

POD.1.3. Competencies Related to Leadership and Management

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

POD.1.4. Competencies related to Health Advocacy

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

POD.1.5. Competencies related to Research

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

POD.1.6. Competencies related to Health Education and Counseling

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

PODG.2. Professional Values and Perspectives

POD.2.1. Competencies related to Law and Legal Regulations

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

POD.2.2. Competencies Related to Ethical Aspects of Medicine

PO.2.2.1. ***recognizes*** basic ethical principles completely, and ***distinguishes*** ethical and legal problems.
PO.2.2.2. ***pays importance to*** the rights of patient, patient's relatives and physicians, and ***provides*** services in this context.

POD.2.3. Competencies Related to Social and Behavioral Sciences

PO.2.3.1. ***relates*** historical, anthropological and philosophical evolution of medicine, with the current medical practice.
PO.2.3.2. ***recognizes*** the individual's behavior and attitudes and factors that determine the social dynamics of the community.

POD.2.4. Competencies Related to Social Awareness and Participation

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

POD.2.5. Competencies Related to Professional Attitudes and Behaviors

PO.2.5.1. ***displays*** a patient-centered and holistic (biopsychosocial) approach to patients and their problems.
PO.2.5.2. ***respects*** patients, colleagues and all stakeholders in health care delivery.
PO.2.5.3. ***displays*** the proper behavior in case of disadvantaged groups and situations in the community.
PO.2.5.4. ***takes*** responsibility for the development of patient safety and healthcare quality.
PO.2.5.6. ***evaluates*** own performance as open to criticism, ***realizes*** the qualifications and limitations.

PODG.3. Personal Development and Values

POD.3.1.Competencies Related to Lifelong Learning

PO.3.1.1. ***embraces*** the importance of lifelong self-learning and ***implements***.
PO.3.1.2. ***embraces*** the importance of updating knowledge and skills; ***searches*** current advancements and ***improves*** own knowledge and skills.
PO.3.1.3. ***uses*** English language at least at a level adequate to follow the international literature and to establish communication related to the profession.

POD.3.2. Competencies Related to Career Management

PO.3.2.1. ***recognizes*** and ***investigates*** postgraduate work domains and job opportunities.
PO.3.2.2. ***recognizes*** the application requirements to postgraduate work/job domains, and ***distinguishes*** and ***plans*** any requirement for further training and work experience.
PO.3.2.3. ***prepares*** a resume, and ***recognizes*** job interview methods.

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

PO.3.3.1. ***implements*** the rules of healthy living.
PO.3.3.2. ***displays*** appropriate behavior specific to work under stressful conditions.
PO.3.3.3. ***uses*** self-motivation factors.

COORDINATION COMMITTEE

(TEACHING YEAR 2015–2016)

Soner DOĞAN PhD, Assoc. Prof. (Coordinator)
Elif VATANOĞLU LUTZ MD, Ph.D, Assoc. Prof (Co-coordinator)
Bilge GÜVENÇ TUNA Ph.D, Assist. Prof. (Co-coordinator)
Serdar ÖZDEMİR MD, Ph.D, Assist. Prof. (Co-coordinator)

ICP-I COORDINATION COMMITTEE

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

DESCRIPTION AND CONTENT

Normal Physiology, Basic Sciences and Medical Terms.

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

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

AIM AND LEARNING OBJECTIVES of PHASE I

AIM

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

LEARNING OBJECTIVES

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

KNOWLEDGE

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

SKILLS

13.0. apply first aid skills on anatomic model.
14.0. use communication skills in patient-doctor interviews.
15.0. present research data with tables and graphs.

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

Objectives
This course aims to equip the students with basic medical skills such as history taking regarding to systems and in general, physical and mental examination in simulated environments in pre-clinical period and to give the students opportunity to develop skills by applying invasive procedures on the manniquins 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. ICP 1 has two components; in the Fall semester it starts with “First Aid” and in the Spring semester it continues with “Communication Skills in Medicine”.

Credit facility:
This course has 5 ECTS credits for the first and third year students while it is 4 ECTS for the second year students and all of the students are required to pass this course in order to pass the year.

Content of the ICP I-II-III
First year medical students learn how to take medical histories from simulated patients (SP’s) as well as basic life support and transportation and bandaging tecniques regarding to first aid. Second year students add procedural skills such as insertion of nasogastric tube, bladder catheterization, and intramuscular, subcutanous, intradermal injections, while the third year medical students use SP’s to learn their clinical skills like the physical and mental examination and add some procedural skills such as suturing techniques.
Clinical cases are created through research and extensive training of the patients portraying these roles. Each exam room is equipped with video cameras and microphones to record the encounter. An observation area at the center of the lab allows faculty and students to observe the encounters live or view digital recordings for subsequent analysis.

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 prosedural skills on manniquins.
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.

Assessment: The Assessment procedure of ICP, which is performed by the Objective Structured Clinical Examination (OSCE) shown in “information about the Assessment procedure” in the booklet (on page…)

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 interchangibly with another student in an 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 lab at any time.

When an OSCE is completed both students and faculty members complete an assessment of the event for the improvement of the course.

AIM AND LEARNING OBJECTIVES FOR ANATOMICAL DRAWING (MED 103)

AIM

1. to convey basic knowledge on anatomical drawing rules and drawing technique.
2. to equip with skills of three dimensional interpretation of bones and muscles in human body.
3. to equip with skills of drawing bones and muscles in human body.
4. to equip with skills of visually explain clinical conditions to patient.

LEARNING OBJECTIVES

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

KNOWLEDGE

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

SKILLS

1. draw frontal, horizontal and profile views of muscles in human body.
2. draw frontal, horizontal and profile views of bones in human body.
3. explain visually clinical conditions to patients.

ELECTIVE COURSES

Objectives :

Elective courses aim to provide complementary educational experiences to the medical school curriculum in order to improve and comprehend the biopsychosocial approach for medical students.

Description:

Electives serve as a culminating educational experiences rounding out the medical school curriculum and there is an ongoing process to review and improve electives to ensure the greatest quality and variety of learning.

Four elective courses will be opened in the Spring Semester for the phase I, academic year 2015-2016. These are shown below:

Code	Subject
MED 190	**Medical Antropology**
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.
MED 191	**Creative Drama For Medical Students**
Goals	This course aims 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	The investigation of a variety of cognitive and learning styles into the active area of teaching and learning by student-centered environment that encourages curiosity.
MED 192	**History of Scientific Thought and Science**
Goals	The aim of this course is the students' acquisition of knowledge on the emergence and development of scientific thought and technology throughout the history of civilization, along with the history of science and philosophy of science since the Renaissance. At the end of this course, students should be able to describe major transformations in ontology, scientific thought, technology, science and philosophy of science throughout the history of civilization, and explain the interactions of these transformations with the sociological and economic dynamics.
Content	The contents of the course include: periods in the history of civilization, ontology, major technological transformations, emergence and progress of modern scientific thought and philosophy of science, definition and features of science, philosophical foundations of science, knowledge and scientific knowledge in epistemology, the process of knowledge, method in natural sciences, the problem of basis of natural sciences, concept formation in natural sciences, laws and theories, natural sciences and the understanding of truth, objectivity and historicism in natural sciences, culture and natural sciences, major scientific paradigm shifts, major scientific advancements, definitions of basic concepts in technology, research and development, innovation.

MED 193	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.

Yeditepe University Faculty of Medicine offers four elective experiences for the first year medical students, starting in the Spring Semester. The aim is to implement these courses over to second, third year and beyond.

Credit facility: Each course has 2 ECTS credits and the students are required to pass this course in order to pass the year.

Rules for attendance of the students:

Each student is required to pick one of the courses. At the beginning of the Fall semester students choose one of the subjects with a petition to the Students' Affairs Office.

Students will choose from the subjects and there should be at least 10 students for each course to be opened.

SPECIFIC SESSIONS / PANELS

Introductory Session

Aim of the session:
The session provides basic information about Yeditepe Medical Faculty Undergraduate Program in Medicine (YMF-GPM) 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 YMF-GPM.
2. To provide basic information about the phase.
3. To provide essential information on social programs and facilities.

Rules of the Session:
1. The session will be held in two types, conducted by Phase Coordinator and Committee/Clerkship Coordinator, respectively.
2. The first type will be held once in the first week of the educational phase. The second type will be held at the beginning of each committee/clerkship.
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 Graduate Program in Medicine (YMF-GPM), Work Descriptions and Introduction of Committees/Clerkships/Members,
- Directives on YMF-GPM,
- 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)
- Assessment Procedure
- Grade Point Average (GPA, cGPA) Calculation
- Pass/Fail Conditions
- Feedback of the Previous Years and Program Improvements
- Social Programs and Facilities

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

Program 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 curriculum in general by giving the opportunity to identify the strengths of the committee educational program and revealing the areas which need improvement.

Objectives of the Program Evaluation Session are to;

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

Process:

The total duration of the session is 90 minutes and the session consists of three parts. In the first part (15 minutes) the students will complete the End of Committee Feedback Forms. Twice in a year also End of Midterm Questionnaires will be subjected to the same procedure. This forms have to be filled in with pencils and should be thrown in locked Feedback boxes, which will be provided by the committee coordinators. This forms should not be folded as this might cause difficulty during evaluation process. The second part (35 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 third part (40 minutes) committee exam questions will be reviewed and discussed by students and faculty.

Rules of the Program Evaluation Session:

1. The program evaluation session will be held on the last day of each committee after the assessment session.
2. Students are required to attend the session.
3. The Committee coordinator will lead the session.
4. In the third part of the session the faculty members who had questions in the committee exam should attend the session.
5. Students must comply with the feedback rules when they are 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 educational program with the students and the faculty members.
2. To inform the students and the faculty members about the processes of the program improvement
3. To encourage student participation in the program improvement processes.

Rules:

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

Implementation:

Before the Session

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

During the Session

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

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

After the Session

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

INDEPENDENT LEARNING

Description:

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

Aim:

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

Objectives:

With this instructional strategy, students will develop;

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

Rules:

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

What a student should do for learning independently?

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

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

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

Reference:

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

For further reading useful resources to recommend to students:

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

ASSESSMENT PROCEDURE

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

- Exams:
  - Committee Exam (CE)
  - Mid-term Exam (MTE)
  - Final Exam (FE)
  - Incomplete Exam (ICE)
  - Make-up Exam (MUE)
- Scores*:
  - Committee Score (CS)
  - Committees Mean Score (CMS)
  - Introduction to Clinical Practice Score (ICPS)
  - Anatomical Drawing Score (ADS)
  - Common Compulsary Course Score (CCCSs)
  - Elective Course Score (ECSs)
  - Scientific Project Score (SPS)
  - In-term Score (ITS)
  - Final Exam Score (FES)
  - Incomplete Exam Score (ICES)
  - Term Score (TS)

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

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

Assessment Approaches	Assessment Methods	Question Types / Assessment Tools	Exams	Derived Scores
Knowledge-based Assessment	WE: Written Examination	MCQ: Multiple Choice Questions	CE, MTE, FE, ICE	CS, ICPS, FES, ICES
		EMQ: Extended Matching Questions	CE	CS
		MEQ: Modified Essay Questions	CE	CS
			MUE	CS, ADS
Competency–based Assessment	OSCE: Objective Structured Clinical Examination	OSCE Checklist		ICPS
	OSPE: Objective Structured Practical Examination	OSPE Checklist		CS
	LPE: Laboratory Practical Exam	LPE Checklist		CS
Performance–based Assessment	PWPE: Project Writing and Presenting Evaluation	PWPE Checklist		SPS
	DOPS: Direct Observation of Procedural Skills	DOPS Checklist		CS
	AID: Anatomical Images Drawing			ADS

Exams Information	
CE	CE consists of 90% MCQs and 10% EMQs. For the proportional correspondence of individual learning objectives, please see the committee's assessment matrix table/page.
MTE_{ICP}	MTE_{ICP} consists of MCQs to assess the theoretical part of the ICP program.
FE	FE consists of 200 MCQs. For the proportional contribution of each committee, please see the committee's question distribution table/page.
ICE	ICE consists of 200 MCQs. For the proportional contribution of each committee, please see the committee's question distribution table/page.
MUE	MUE will be held only twice in a term. MUE content will be developed by the coordination committees.

Scores Information	
CS	The committee score is based on various question types/numbers and/or assessment methods (MCQ, EMQ, MEQ, DOPS etc.). Please see the committee's assessment matrix table/page for the specifications.
CMS	= Average of CSs
ICPS	= (40% MTE_{ICP}) + (60% Final OSCE)
ADS	= (70% AID_{AD}) + (30% FE_{AD})
CCCSs	= Score information will be announced by Course Coordinator.
ECSs	= Score information will be announced by Course Coordinator.
SPS	= Score information is shown in below Scientific Projects Assessment Table.
ITS	= (96 % of CMS) + (4 % of SPS)
FES	= Final Exam Score
ICES	= Incomplete Exam Score
TS	= (60% of ITS) + (40% of FES or ICES)

Pass or Fail Calculations of the Courses
Basic Medical Sciences I (MED 104)
Pass; *TS* **≥ *50***
Fail; *FES* **< *50*** *(barrier point), ICES* **< *50*** *(barrier point), or/and TS* **< *50***
The student is exempted from FE, if the ITS is **≥ *75*** *and all CSs are* **≥ *50***
The FE and ICE barrier point is not applied to the students whose all CSs are **≥ *50***
The TS for students, who are exempted from FE, is ITS.
Introduction to Clinical Practice I (MED 102)
Pass; *ICPS* **≥ *50***
Fail; *ICPS* **< *50***
Anatomical Drawing (MED 103)
Pass; *ADS* **≥ *50***
Fail; *ADS* **< *50***
Common Compulsary Courses (HUM 103, TKL 201, TKL 202, HTR 301, HTR 302)
Pass; *CCCSs* **≥ *50***
Fail; *CCCSs* **< *50***
Elective Courses (MED 190, MED 191, MED 192, MED 193)
Pass; *ECSs* **≥ *50***
Fail; *ECSs* **< *50***

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

Definitions of the Assessment Methods and Question Types

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

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

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

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

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

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

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

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

SCIENTIFIC PROJECTS - I

The purpose of Scientific Projects class is to teach the medical students how to read and write a scientific article. Throughout the year, each Phase One student is expected to prepare an article report and present it in class. Students are free to choose their articles from given journal list for article reading part. All article reports are due before the end of first half of the educational year. In second half; students are given four different scenarios of scientific data and are expected to write an article on their choice of scenarios, individually. All articles will be presented as posters at Scientific Day of Yeditepe School of Medicine, during May, 2016. Scientific Projects course has 4% contribution to In-term Score (ITS).

SCIENTIFIC PROJECTS ASSESSMENT TABLE

CRITERIA	**Unsatisfactory**	**Below Expectations**	**Meets Expectations**	**Above Expectations**	**Clearly Outstanding**	**Not Addressed / Observed**
Abstract Writing	**1**	**2**	**3**	**4**	**5**	**0**
Introduction	**1**	**2**	**3**	**4**	**5**	**0**
Methods Part (including statistics, ethical issues etc)	**1**	**2**	**3**	**4**	**5**	**0**
Presentation of results (Tables, graphs etc.)	**1**	**2**	**3**	**4**	**5**	**0**
Discussion	**1**	**2**	**3**	**4**	**5**	**0**
References	**1**	**2**	**3**	**4**	**5**	**0**
Article as a whole (representing the given mock data)	**1**	**2**	**3**	**4**	**5**	**0**
Overall presentation	**1**	**2**	**3**	**4**	**5**	**0**
TOTAL POINTS	**40 x 2,5=100 pts (if all criteria has 5 points)**					

Exam Rules

- **Seating-** Students will be seated by the exam observers or proctors. Students are not allowed to change their seats without permission.
- **Electronics** – During examinations or tests, students are prohibited from using electronic devices or any other means of communication and recording that have not been approved beforehand. All electronic devices are prohibited. Anyone who fails to comply with these regulations may be charged with academic fraud.
- **Absence** – No additional time will be given to students who are absent for part of the exam, regardless of the reason for their absence.
- **Scratch Paper** – Students are not allowed to bring scratch paper into the exam room.
- **Meaning of Questions** – Students may not consult the supervisor as to the meaning of any question.
- **Signature** – Students must sign their multiple-choice answer sheets and/or written-answer sheets.

- **Other activities requiring disciplinary action**-
    - Students must not give or receive assistance of any kind during the exam.
    - Gaining access to exam questions before the exam.
    - Using an unauthorized calculator or other mechanical aid that is not permitted.
    - Looking in the exam book before the signal to begin is given.
    - Marking or otherwise writing on the exam book or answer sheet before the signal to begin is given.
    - Making any changes, additions, deletions or other marking, erasing or writing on the exam book or answer sheet after the time for the exam has expired.
    - Having access to or consulting notes or books during the exam.
    - Looking at or copying from another student's paper.
    - Enabling another student to copy from one's paper.
    - Talking or otherwise communicating with another student during the exam or during the read through period.
    - Disturbing other students during the exam.
    - Consulting other persons or resources outside the exam room during the exam.
    - Copying questions or answers either on paper or with an electronic device to take from the exam room.
    - Taking an exam book or other exam materials from the exam room.
    - Taking an exam in place of another student.
    - Arranging to have another person take an exam for the student.
    - Disobeying to the conduct of supervisor during the exam.
    - Disclosing the contents of an exam to any other person.
    - Failing to remain in the exam room for a given period of time by the supervisors.
    - Failing to follow other exam instructions.

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

WEEKLY COURSE SCHEDULE and LOCATIONS

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-09:50	MED 104 (B 311)		MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
10:00-10:50	MED 104 (B 311)	MED 102* (CSL)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
11:00-11:50	MED 104 (B 311)	MED 102 (CSL)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
12:00-12:50	MED 104 (B 311)	MED 102 (CSL)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
13:00-13:50	TKL201&202 (B 311)				
14:00-14:50	TKL201&202 (B 311)	MED 103 (C 931-932)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
15:00-15:50	HTR 301&302 (Z02)	MED 103 (C 931-932)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
16:00-16:50	HTR 301&302 (Z02)	Humanities Conference (FALL)	MED 104 (B 311)	Elective Course (SPRING)	MED 104 (B 311)
17:00-17:50		HUM 103 (FALL)	MED 104 (B 311)	MED 104 (B 311)	MED 104 (B 311)
18:00-18:50		HUM 103 (FALL)			
19:00-19:50		HUM 103 (FALL)			

COURSE CODES	COURSES
MED 104	Basic Medical Sciences (B 311)
MED 102	Introduction to Clinical Practice I (ICP-I)
MED 103	Anatomical Drawing (C 931-932)
TKL 201 & 202	Turkish Language & Literature (B 311)
HTR 301 & 302	Atatürk's Principles & History of Modern Turkey (Z02)
HUM 103	Humanities (B 311)

CLASSROOM and LABORATORY CODES	LOCATIONS
B 311	Base Floor
C 931-932	5th Floor

* MED 102 Practical Lectures will be in Clinical Skills Laboratory (CSL) (Base Floor)
** WBAL = will be announced later

ACADEMIC CALENDAR 2015 - 2016

COMMITTEE I
INTRODUCTION TO BASIC MEDICAL SCIENCES (7 Weeks)

Beginning of Committee	September 14, 2015	Monday
End of Committee	October 30, 2015	Friday
Committee Practical Exam	November 05, 2015	Thursday
Committee Theoretical Exam	November 06, 2015	Friday
Religious Holiday	**September 21-27 2015**	**Monday - Friday**
National Holiday	**October 28-29, 2015**	**Wednesday -Thursday**

COMMITTEE II
CELL (8 Weeks)

Beginning of Committee	November 09, 2015	Monday
End of Committee	December 19, 2015	Friday
Committee Practical Exam	December 28, 2015	Monday
Committee Theoretical Exam	December 29, 2015	Tuesday
Commemoration of Atatürk	**November 10, 2014**	**Tuesday**

COMMITTEE III
TISSUE I (5 Weeks)

Beginning of Committee	January 04, 2016	Monday
End of Committee	February 05, 2016	Friday
Committee Practical Exam	February 11, 2016	Thursday
Committee Theoretical Exam	February 12, 2016	Friday
New Year	**January 01, 2016**	**Thursday**
MIDTERM BREAK	**February 15, 2016**	**February 26, 2016**

COMMITTEE IV
TISSUE II (8 Weeks)

Beginning of Committee	February 29, 2016	Monday
End of Committee	April 15, 2016	Friday
Committee Practical Exam	April 21, 2016	Thursday
Committee Biostatistics Exam	April 21, 2016	Thursday
Committee Theoretical Exam	April 22, 2016	Friday
White Coat Ceremony and Physicians' Day	**March 14, 2016**	**Monday**
National Holiday	**April 23, 2016**	**Saturday**

COMMITTEE V
ENERGY and METABOLISM (7 Weeks)

Beginning of Committee	April 25, 2016	Monday
End of Committee	May 27, 2016	Friday
Committee Practical Exam	June 02, 2016	Thursday
Committee Biostatistics Exam	June 02, 2016	Thursday
Committee Theoretical Exam	June 03, 2016	Friday
Labor's Day	**May 1, 2016**	**Sunday**
National Holiday	**May 19, 2016**	**Thursaday**

Basic Medical Sciences I

Make-up Exam	June 13-14, 2016	Monday-Tuesday
Final Exam	June 20, 2016	Monday
Incomplete Exam	July 18, 2016	Monday

ICP- I:

Midterm Exam	January 25, 2016	Monday
Make-up Exam	June 15, 2016	Wednesday
Final Exam	June 21- 22, 2016	Tuesday, Wednesday
Incomplete Exam	July 20, 2016	Wednesday

ELECTIVE Spring 2015-16

Final Exam	June 23-24, 2016	Thursday-Friday
Incomplete Exam	July 21-22, 2016	Thursday-Friday

Turkish Language & Literature	**TKL**	
Fall Final Exam	December 26, 2015	Saturday (10:00-12:00)
Spring Final Exam	May 21, 2016	Saturday (10:00-12:00)

Atatürk's Principles & History of Modern Turkey	**HTR**	
Fall Final Exam	January 02, 2016	Saturday (10:00-18:00)
Spring Final Exam	May 14, 2016	Saturday (10:00-18:00)

Humanities	**HUM**	
Fall Final Exam	December 26, 2015	Saturday (14:00-16:00)
Spring Final Exam	May 21, 2016	Saturday (14:00-16:00)

1. Coordination Committee Meeting	October 22, 2015	Thursday (14:00)
2. Coordination Committee Meeting	January 07, 2016	Thursday (14:00)
3. Coordination Committee Meeting	May 12, 2016	Thursday (14:00)
4. Coordination Committee Meeting	July 14, 2016	Thursday (14:00)

RECOMMENDED TEXTBOOKS

NO	DEPARTMENT	TEXTBOOK	AUTHOR	PUBLISHER
1	ANATOMY	Gray's Anatomy for Students	R.L. Drake et al	Churchill Livingstone
		Hollinshead's Textbook of Anatomy	Cornelius Rosse & Penelope Gaddum-Rosse	Lippincott Raven
		A Textbook of Neuroanatomy	Maria Patestas & Leslie P. Gartner	Blackwell
2	BIOCHEMISTRY	Textbook of Biochemistry with Clinical Correlations	Thomas M. Devlin	Wiley-Liss Publishing Company
		Harper's Illustrated Biochemistry	Robert K. Murray et al	Mc-Graw-Hill Companies
		Lehninger Principles of Biochemistry	David L. Nelson, Michael M. Cox	W.H. Freeman Publishing Company
3	BIOPHYSICS	Introductory Biophysics: Perspectives on the Living State	J.R. Claycomb, J.P. Tran	Jones & Bartlett Publishers
4	BIOSTATISTICS	Primer of Biostatistics	Stanton Glantz	Mc-Graw-Hill Companies
5	HISTOLOGY	Junqueira's Basic Histology: Text and Atlas 13th Ed.	Anthony Mescher	Mc-Graw-Hill Companies
	EMBRYOLOGY	The Developing Human: Clinically Oriented Embryology, 10th Ed.	Keith L. Moore & T. V. N. Persaud	Saunders
6	MEDICAL BIOLOGY	Molecular Biology of the Cell	Bruce Alberts et al	Garland Science
7	MEDICAL ETICS	Clinical Bioethics: Theory and Practice in Medical-Ethical Decision Making	James E. Drane	Sheed & Ward
	MEDICAL HISTORY	Medical History for Students	John R. Green	Thomas
8	MICROBIOLOGY	Medical Microbiology: with Student Consult	P. R. Murray et al	Saunders
9	ORGANIC CHEMISTRY	Organic Chemistry	John E. McMurry	Cengage Learning
10	PHYSIOLOGY	Guyton Physiology	John E. Hall	Saunders
		Human Physiology	Stuart Fox	Mc-Graw-Hill Science

COMMITTEES

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

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

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

Therefore, the core medical courses are;

- Phase I: MED 104 Basic Medical Sciences I, MED 102 Introduction to Clinical Practice I, MED 103 Anatomical Drawing,
- Phase II: MED 201 Basic Medical Sciences II, MED 202 Introduction to Clinical Practice II,
- Phase III: MED 302 Introduction to Clinical Sciences, MED 303 Introduction to Clinical Practice III.

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

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

DISTRIBUTION of LECTURE HOURS
September 14, 2015 - November 06, 2015
COMMITTEE DURATION: 7 WEEKS

MED 104	BASIC MEDICAL SCIENCES I DISCIPLINE	THEO. *102*	PRAC. *6*	TOTAL *108*
	BIOPHYSICS	18	0	18
	HISTOLOGY & EMBRYOLOGY	14	2 Gr x 2 H	16
	MEDICAL BIOLOGY	39	3 Gr x 4 H	43
	MEDICAL HISTORY & ETHICS	10	0	10
	MICROBIOLOGY	3	0	3
	ORGANIC CHEMISTRY	14	0	14
	PHYSIOLOGY	2	0	2
	SCIENTIFIC PROJECT I	2	0	2

MED 103	**ANATOMICAL DRAWING**	0	14	14
MED 102	**ICP I**	18	0	18
HTR 301-302	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	14	0	14
HUM 101-102	**HUMANITIES**	21	7	28
TKL 201-202	**TURKISH LANGUAGE & LITERATURE**	14	0	14

TOTAL	**169**	**27**	**196**

Coordination Committee	Head	YESİM GUROL, Assoc. Prof
	Secretary	BİLGE GÜVENÇ TUNA, Assist. Prof.
	Member	ELİF VATANOĞLU LUTZ, Assoc. Prof
	Member	ALEV CUMBUL, Assist. Prof.

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**FACULTY**
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof.
	Bilge GÜVENÇ TUNA, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof.
	Alev CUMBUL, PhD Assist. Prof.
	Oya ALAGÖZ, MD Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof.
	Soner DOĞAN, PhD Assoc. Prof.
	Deniz KIRAÇ, PhD Assist. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU, MD Assist. Prof.
MICROBIOLOGY	Gülden ÇELİK, MD Prof.
	Yeşim GÜROL, MD Assoc. Prof.
	Çağatay ACUNER, MD Assoc. Prof.
ORGANIC CHEMISTRY	Esra Önen BAYRAM, PhD Assist. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof.
	Mehtap KAÇAR, MD, PhD Assoc. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD Assoc. Prof.

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

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	LECTURER / INSTRUCTOR	NUMBER of MCQs			
		CE	FE	ICE	TOTAL
1.0, 2.0	Dr. B.Güvenç Tuna	16	8	8	32
3.0 – 7.0	Dr. Ü. Uslu	6	3	3	12
3.0 – 7.0	Dr. A. Cumbul	7	3	3	13
8.0 – 13.0	Dr. T. İsbir	28	15	15	58
	Dr. S. Doğan	5	2	2	9
	Dr. D. Kıraç	2	1	1	4
14.0, 15.0	Dr. E. Vatanoğlu	9	5	5	19
16.0	Dr. G. Çelik	3	2	2	7
17.0, 18.1, 18.2	Dr. E.Ö. Bayram	12	6	6	24
19.0	Dr. B. Yılmaz	2	1	1	4
	TOTAL	**90**	**46/200#**	**46/200#**	**182**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of EMQs
		CS
1.0, 2.0	BIOPHYSICS	3
3.0 – 7.0	HISTOLOGY & EMBRYOLOGY	2
8.0 – 13.0	MEDICAL BIOLOGY	5
	TOTAL	**10**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of ASSESSMENT METHODS	
		CS	
		DOPS	LPE
3.0 – 7.0	HISTOLOGY & EMBRYOLOGY	1	-
8.0 – 13.0	MEDICAL BIOLOGY	-	4
	TOTAL	**5**	

Total number of MCQs are **90**, equal to **90** pts,
Each MCQ has a value equal to **1** pt,
DOPS and LPE have value equal to **10** pts.

MCQ: Multiple Choice Question
EMQ: Extending Matching Question
DOPS: Direct Observation of Procedural Skills
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
pts: Points
46 out of 200 FE and ICE MCQs will be from the Committee (Each question is of worth **0.5** pts).

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

I. WEEK / 14 – 18 Sep 2015

	Monday 14-Sep-2015	Tuesday 15-Sep-2015	Wednesday 16-Sep-2015	Thursday 17-Sep-2014	Friday 18-Sep-2015
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture / ICP I** Basic Human Body *Arzu Akalın*	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Introductory Session** Introduction to Faculty *Dean*		**Lecture** History and Scope of Microbiology *Gülden Çelik*	**Lecture** Origin of Life *Turgay İsbir*	**Lecture** Microscopy (Brightfield, Fluorescent, Confocal) *Alev Cumbul*
11.00- 11.50	**Introductory Session** Introduction to Commitee I *Head of Commitee*		**Lecture** History and Scope of Microbiology *Gülden Çelik*	**Lecture** Origin of Life *Turgay İsbir*	**Lecture** Electronmicroscopy *Alev Cumbul*
12.00- 12.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lecture / ICP I** Introduction to the First Aid Programmes *Arzu Akalın*	**Lecture** Introduction to Histology; Basic Terminology *Unal Uslu*	**Lecture / ICP I** Scene Assessment *Arzu Akalın*	**Lecture** Statics (Mass And Weight), Gravitation Law *Bilge Güvenç Tuna*
		Common Compulsory Course Anatomical Drawing *Refik Aziz*	**Lecture** Introduction to Medical Biology *Turgay İsbir*	**Lecture** Introduction to Physiology and Homeostasis *Bayram Yılmaz*	**Lecture** Cellular Organization of Life *Turgay İsbir*
15.00- 15.50	**Common Compulsory Course** Atatürk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*		**Lecture** Introduction to Biophysics; Medicine, Science or Art *Bilge Güvenç Tuna*	**Lecture** Introduction to Physiology and Homeostasis *Bayram Yılmaz*	**Lecture** Cellular Organization of Life *Turgay İsbir*
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Lecture** Physical Measurements and Units, Unit Standards *Bilge Güvenç Tuna*	**Lecture / ICP I** Legal Aspect of First Aid *Elif Vatanoğlu Lutz*	**Lecture** Introduction to Medicinal Organic Chemistry *Esra Önen Bayram*
17.00-17.50	**Independent Learning**		**Independent Learning**	**Lecture / ICP I** Legal Aspect of First Aid *Elif Vatanoğlu Lutz*	**Lecture** Bonding Theory *Esra Önen Bayram*

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

RELIGIOUS HOLIDAY

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
II. WEEK / 28 Sep – 2 Oct 2015

	Monday 28-Sep-2015	Tuesday 29-Sep-2015	Wednesday 30-Sep-2015	Thursday 01-Oct-2015	Friday 02-Oct-2015
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Lecture** Energy Protection Principle *Bilge Güvenç Tuna*	**Independent Learning**
10.00- 10.50	**Lecture / ICP I** Basic Life Support *Arzu Akalın*		**Lecture** Cellular Organization of Life *Turgay İsbir*	**Lecture** Energy, Work and Power, Mechanical efficiency *Bilge Güvenç Tuna*	**Lecture** Nature of Light, Electromagnetic Spectrum *Bilge Güvenç Tuna*
11.00- 11.50	**Lecture / ICP I** Basic Life Support *Arzu Akalın*		**Lecture** Cellular Organization of Life *Turgay İsbir*	**Lecture** Methods of Histology; Immunohistochemistry *Alev Cumbul*	**Lecture** Cytoskeleton *Turgay İsbir*
12.00- 12.50	**Lunch Break**		**Lecture** Newton's Laws of Motion *Bilge Güvenç Tuna*	**Lecture** History and Scope of Microbiology *Gülden Çelik*	**Lecture** Cytoskeleton *Turgay İsbir*
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Center Of Mass, Moment *Bilge Güvenç Tuna*	**Independent Learning**	**Laboratory / Med. Biology** Introduction to Medical Biology *Turgay İsbir* *Soner Doğan & Deniz Kıraç* ***Group A*** ***Group B*** ***Group C***
15.00- 15.50	**Lecture** **Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*		**Lecture** Methods of Histology; Tissue Processing *Alev Cumbul*		
16.00- 16.50		**Common Compulsory Course** Humanities Conferences *Instructor* **16.00-19.50**	**Leture** Organic reactions *Esra Önen Bayram*	**Independent Learning**	**Lecture** Approaches to Medicine/ Medicine in Prehistoric Times *Elif Vatanoğlu Lutz*
17.00-17.50	**Independent Learning**				**Lecture** Approaches to Medicine/ Medicine in Prehistoric Times *Elif Vatanoğlu Lutz*

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
III. WEEK / 5 – 9 Oct 2015

	Monday 05-Oct-2014	Tuesday 06-Oct-2015	Wednesday 07-Oct-2015	Thursday 08-Oct-2015	Friday 09-Oct-2015
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture / ICP I** Shock and bleeding control *Hülya Akan*	**Lecture** Cell Membrane Structure *Alev Cumbul*	**Lecture** Assyro-Babylon Medicine *Elif Vatanoğlu Lutz*
10.00- 10.50	**Lecture** Cellular Organization of Life *Turgay İsbir*		**Lecture / ICP I** Injuries *Arzu Akalın*	**Lecture** Approaches to Medicine/ Medicine in Prehistoric Times *Elif Vatanoğlu Lutz*	**Lecture** Assyro-Babylon Medicine *Elif Vatanoğlu Lutz*
11.00- 11.50	**Lecture** Cytoskeleton *Turgay İsbir*		**Lecture / ICP I** Burns, Freezing, Frostbite *Hülya Akan*	**Lecture** Approaches to Medicine/ Medicine in Prehistoric Times *Elif Vatanoğlu Lutz*	**Lecture** Cell Signalling Events *Turgay İsbir*
12.00- 12.50	**Lunch Break**		**Lecture** Other Histologic Methods *Alev Cumbul*	**Lecture** Cell Adhesion *Turgay İsbir*	**Lecture** Cell Signalling Events *Turgay İsbir*
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Cytoskeleton *Turgay İsbir*	**Lecture** Cell Adhesion *Turgay İsbir*	**Laboratory / Histology Assessment (DOPs)** Microscopy *Ünal Uslu & Alev Cumbul*
15.00- 15.50	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*		**Lecture** Cell Adhesion *Turgay İsbir*	**Lecture** Cell Signalling Events *Turgay İsbir*	***Group A*** **Independent Learning** **Group B**
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Lecture** Cell; General Specification *Unal Uslu*	**Laboratory / Histology Assessment** Microscopy *Ünal Uslu & Alev Cumbul*	**Lecture** Stereochemistry *Esra Önen Bayram*
17.00-17.50	**Independent Learning**		**Lecture** Reflection and refraction of light *Bilge Güvenç Tuna*	***Group A*** **Group B Independent Learning**	**Lecture** Stereochemistry *Esra Önen Bayram*

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

IV. WEEK / 12 – 16 Oct 2015

	Monday 12-Oct-2015	Tuesday 13-Oct-2015	Wednesday 14-Oct-2015	Thursday 15-Oct-2015	Friday 16-Oct-2015
09.00- 09.50	**Lecture / ICP I** Foreign objects *Hülya Akan*	**Independent Learning**	**Lecture** Lenses; Lens-maker Equation *Bilge Güvenç Tuna*	**Lecture** Optical Aberrations *Bilge Güvenç Tuna*	**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
10.00- 10.50	**Lecture** Cell Signalling Events *Turgay İsbir*		**Lecture** Alkanes *Esra Önen Bayram*	**Lecture** Bio-optics: Vision and Eye, Refraction errors *Bilge Güvenç Tuna*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50	**Lecture** Cell Signalling Events *Turgay İsbir*		**Lecture** Halides *Esra Önen Bayram*	**Lecture** Intercellular Cell Signalling *Turgay İsbir*	**Laboratory / Med. Biology** The Preparation of Aqueous Solutions *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
12.00- 12.50	**Lunch Break**		**Lecture** Cell Signalling Events *Turgay İsbir*	**Lecture** Programmed Cell Death *Turgay İsbir*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Intercellular Cell Signalling *Turgay İsbir*	**Lecture** Programmed Cell Death *Turgay İsbir*	**Laboratory** The Preparation of Aqueous Solutions *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*		**Lecture** Intercellular Cell Signalling *Turgay İsbir*	**Lecture** Cell Membrane Transport *Unal Uslu*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Lecture** Cellular Organization of Life *Soner Doğan*	**Lecture** Signal Transduction *Unal Uslu*	**Independent Learning**
17.00-17.50	**Independent Learning**		**Lecture** Cell Membrane *Soner Doğan*	**Lecture / ICP I** Fractures and dislocation *Hülya Akan*	

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

V. WEEK / 19 – 23 Oct 2015

	Monday 19-Oct-2015	Tuesday 20-Oct-2015	Wednesday 21-Oct-2015	Thursday 22-Oct-2015	Friday 23-Oct-2015
09.00- 09.50	**Lecture** Optical properties of Microscopes *Bilge Güvenç Tuna*	**Independent Learning**	**Lecture** Halides *Esra Önen Bayram*	**Lecture** Halides *Esra Önen Bayram*	**Lecture** Alcohols *Esra Önen Bayram*
10.00- 10.50	**Lecture** Programmed Cell Death *Turgay İsbir*		**Lecture** Cellular Organization of Life *Soner Doğan*	**Lecture** Assyro-Babylon Medicine *Elif Vatanoğlu Lutz*	**Lecture** Alcohols *Esra Önen Bayram*
11.00- 11.50	**Lecture** Programmed Cell Death *Turgay İsbir*		**Lecture** Optical properties of Microscopes *Bilge Güvenç Tuna*	**Lecture** Assyro-Babylon Medicine *Elif Vatanoğlu Lutz*	**Lecture** Egyptian Medicine *Elif Vatanoğlu Lutz*
12.00- 12.50	**Lunch Break**	**Lunch Break**	**Lecture** Electric Charges, Electric Field *Bilge Güvenç Tuna*	**Lecture** Membrane Impedance, Bioelectrical Activity *Bilge Güvenç Tuna*	**Lecture** Egyptian Medicine *Elif Vatanoğlu Lutz*
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lecture / ICP I** Poisoning *A.A.Akalın*	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Organalles; Protein Synthesis; ER, Golgi and Ribosomes *Alev Cumbul*	**Lecture** Cytoskeleton; Gn Specification & Microtubules *Unal Uslu*	**Independent Learning**
15.00- 15.50	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*		**Lecture** Organalles; Cell Digestion & Powerhouse *Alev Cumbul*	**Lecture** Cytoskeleton; Microfilament & Intermediate Filament *Unal Uslu*	
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Lecture** Cell Membrane *Soner Doğan*	**Lecture** Cell Cycle and Mitosis-Meiosis *Deniz Kıraç*
17.00-17.50	**Lecture / ICP I** The unconscious causalty *Güldal İzbırak*		**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Lecture** Cell Membrane *Soner Doğan*	**Lecture** Cell Cycle and Mitosis-Meiosis *Deniz Kıraç*

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VI. WEEK / 26 – 30 Oct 2015

	Monday 26-Oct-2015	Tuesday 27-Oct-2015	Wednesday 28-Oct-2015	Thursday 29-Oct-2015	Friday 30-Oct-2015
09.00- 09.50	**Lecture / ICP I** Insect bite *Özlem Tanrıöver*	**Independent Learning**	**Independent Learning**	**OCTOBER 29 REPUBLIC DAY**	**Independent Learning**
10.00- 10.50	**Lecture** Cell Cycle and Mitosis-Meiosis *Turgay İsbir*				
11.00- 11.50	**Lecture** Cell Cycle and Mitosis-Meiosis *Turgay İsbir*				**Lecture** Problem Solving *Esra Önen Bayram*
12.00- 12.50	**Lunch Break**	**Lunch Break**			**Lecture** Problem Solving *Esra Önen Bayram*
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lecture / ICP I** Drowning *Güldal İzbırak*	**Lunch Break**		**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**REPUBLIC DAY HOLIDAY**		**Lecture** Cellular Homoestosis and Cell Growth *Turgay İsbir*
15.00- 15.50	**Lecture** Electric Current Effects on Human Tissue *Bilge Güvenç Tuna*				**Lecture** Cellular Homoestosis and Cell Growth *Turgay İsbir*
16.00- 16.50	**Lecture** Electrical Security Systems *Bilge Güvenç Tuna*	**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**			**Independent Learning**
17.00-17.50	**Lecture / ICP I** Patient-Causalty Transportation techniques *Özlem Tanrıöver*				

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES
VII. WEEK / 02 – 06 Nov 2015

	Monday 02-Nov-2015	Tuesday 03-Nov-2015	Wednesday 04-Nov-2015	Thursday 05-Nov-2015	Friday 06-Nov-2015
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Assessment Session** **Medical Biology** (Practical Exam)	**Independent Learning**
10.00- 10.50					**Assessment Session** **Committee I** (MCQ-EMQ)
11.00- 11.50					
12.00- 12.50	**Lunch Break**				
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Independent Learning**	**Assessment Session** **Medical Biology** (Practical Exam)	**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Commitee I Program *Head of Commitee*
15.00- 15.50	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*				
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**			**Independent Learning**
17.00-17.50	**Independent Learning**				

COMMITTEE II - CELL

DISTRIBUTION of LECTURE HOURS

November 09, 2015 - December 29, 2015

COMMITTEE DURATION: 8 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	TOTAL
	DISCIPLINE	***110***	***12***	***122***
	ANATOMY	15	2Grx4H	19
	BIOPHYSICS	15	0	15
	HISTOLOGY and EMBRYOLOGY	12	0	12
	MEDICAL BIOLOGY	33	3Grx6H	39
	MEDICAL HISTORY & ETHICS	6	0	6
	MICROBIOLOGY	8	0	8
	ORGANIC CHEMISTRY	14	0	14
	PHYSIOLOGY	5	3Grx2H	7
	SCIENTIFIC PROJECT I	2	0	2

MED 103	**ANATOMICAL DRAWING**	0	14	14
MED 102	**ICP-I**	0	4Grx6H	6
HTR 301-302	**ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY**	14	0	14
HUM 101-102	**HUMANITIES**	21	7	28
TKL 201-202	**TURKISH LANGUAGE & LITERATURE**	14	0	14

TOTAL	**149**	**27**	**186**

Coordination Committee	Head	ÜNAL USLU, Assoc. Prof.
	Secretary	ELİF VATANOĞLU LUTZ, Assoc. Prof
	Member	SERDAR ÖZDEMİR, Assist. Prof.
	Member	KAAN YÜCEL, Assoc. Prof.

COMMITTEE II – CELL

LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**FACULTY**
ANATOMY	Kaan YÜCEL, MD, PhD Assoc. Prof.
	Yüksel AYDAR, PhD Prof.
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof.
	Bilge GÜVENÇ TUNA, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof.
	Alev CUMBUL, PhD Assist. Prof.
	Oya ALAGÖZ, MD Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof.
	Deniz KIRAÇ, PhD Assist. Prof.
	Soner DOĞAN, PhD Assoc. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU, MD Assist. Prof.
MICROBIOLOGY	Gülden ÇELİK, MD Prof.
	Yeşim GÜROL, MD Assoc. Prof.
	Çağatay ACUNER, MD Assoc. Prof.
ORGANIC CHEMISTRY	Esra Önen BAYRAM, PhD Assist. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof.
	Mehtap KAÇAR, MD, PhD Assoc. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD Assoc. Prof.

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

COMMITTEE II – CELL

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*** knowledge on cellular structure and functions**.**
3. **to convey** knowledge on system-specific (bones, skull, vertebra, and thorax) anatomy and its clinical applications.

LEARNING OBJECTIVES

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

1.0. define fundamental concepts of anatomy
  1.1. define anatomy, its historical development and basic anatomical terms.
  1.2. *explain basic concepts related to regional and* systemic *anatomy, and osteology.*
2.0. define anatomical properties and clinical implications for bones of the upper and lower limbs, pelvis, thorax and vertebral column
3.0. explain basic terms and concepts about radiation biophysics, radiation safety and use of lasers.
4.0. list effects of radiation to the organism, its evaluation methods on the cellular basis and protection approaches.
5.0. explain histological characteristics of cell nucleus.
6.0. list the difference between mitosis and meiosis.
7.0. list the difference between male and female gametogenesis.
8.0. list developmental events respectively from zygote to nerulation.
9.0. define basic ions that are diffused in intracellular and extracellular fluids and their concentrated regions.
10.0. explain transfer mechanisms of cellular membrane and the connection of these mechanisms with material and energy requirements.
11.0. explain the roles of DNA and RNA in the maintenance of living organism.
12.0. list the protein synthesis steps and define the mechanisms of regulation of gene expression.
13.0. define types of mutations and emphasize the importance of gene polymorphisms in human health and variability.
14.0. define plasmids and their use in molecular biology,
15.0. explain the identification methods of chromosomes and their use in medical clinics.
16.0. Define the correlation of medicine,art and philosophy from prehistoric ages to date.
17.0. for microorganisms;
  17.1. classify
  17.2. list general characteristics.
18.0. define structure of organic compounds and their chemical reactions
19.0. define structures and reactions of macromolecules such as amino acid, protein, lipid and carbohydrate.

COMMITTEE II – CELL

COMMITTEE EXAM ASSESSMENT TABLE

LEARNING OBJECTIVES	LECTURER / INSTRUCTOR	NUMBER OF MCQs			
		CE	FE	IE	TOTAL
1.0, 2.0	Dr. K.Yücel	6	3	3	12
	Dr. Y. Aydar	7	4	4	15
3.0, 4.0	Dr. B.Güvenç Tuna	12	7	7	26
5.0 – 8.0	Dr. U. Uslu	4	2	2	8
	Dr. A. Cumbul	6	4	4	14
11.0 -15.0	Dr. T. Isbir	25	14	14	53
	Dr. D. Kıraç	2	1	1	4
16.0	Dr. E. Vatanoğlu	5	3	3	11
17.1, 17.2	Dr. G. Çelik	4	2	2	8
	Dr. Y. Gurol	3	2	2	7
18.0, 19.0	Dr. E.O. Bayram	12	6	6	24
9.0, 10.0	Dr. B. Yilmaz	4	2	2	8
	TOTAL	**90**	**50/200#**	**50/200#**	**190**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of EMQs
		CS
1.0, 2.0	ANATOMY	2
3.0 – 7.0	BIOPHYSICS	2
8.0 – 13.0	MEDICAL BIOLOGY	4
	TOTAL	**8**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of ASSESSMENT METHODS	
		CS	
		DOPS	LPE
1.0, 2.0	ANATOMY	-	4
3.0 – 7.0	HISTOLOGY & EMBRYOLOGY	2	-
8.0 – 13.0	MEDICAL BIOLOGY	-	4
9.0, 10.0	PHYSIOLOGY		2
	TOTAL	**10**	

Total number of MCQs are **90**, equal to **90** pts,
Each MCQ has a value equal to **1** pt,
DOPS and LPE have value equal to **10** pts.

MCQ: Multiple Choice Question
EMQ: Extending Matching Question
DOPS: Direct Observation of Procedural Skills
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
pts: Points
50 out of 200 FE and ICE MCQs will be from the Committee (Each question is of worth **0.5** pts).

COMMITTEE II – CELL
I. WEEK / 09 – 13 Nov 2015

	Monday 09-Nov-2015	Tuesday 10-Nov-2015	Wednesday 11-Nov-2015	Thursday 12-Nov-2015	Friday 13-Nov-2015
09.00- 09.50	**Clinical Skills Learning** **ICP I** Basic life support *Güldal İzbırak & Arzu Akalın*	**Commemoration of Atatürk**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Group A** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D Independent Learning**		**Introductory Session** Introduction to Commitee II *Head of Commitee*	**Lecture** Alkenes *Esra Önen Bayram*	**Lecture** Biosynthesis of Nucleotides *Turgay İsbir*
11.00- 11.50			**Lecture** Deoxyribonucleic Acid and Ribonucleic Acid *Turgay İsbir*	**Lecture** Alkenes *Esra Önen Bayram*	**Lecture** Radiation Biophysics: Nucleus and Radioactivity *Bilge Güvenç Tuna*
12.00- 12.50	**Lunch Break**		**Lecture** Deoxyribonucleic Acid and Ribonucleic Acid *Turgay İsbir*	**Lecture** Deoxyribonucleic Acid and Ribonucleic Acid *Turgay İsbir*	**Lecture** Nuclear stability *Bilge Güvenç Tuna*
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Cell Nucleus and Cell Cycle *Alev Cumbul*	**Lecture** Deoxyribonucleic Acid and Ribonucleic Acid *Turgay İsbir*	**Lecture** Protein Synthesis and Turnover *Turgay İsbir*
15.00- 15.50	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*		**Lecture** Mitosis & Meiosis *Alev Cumbul*	**Lecture** Biosynthesis of Nucleotides *Turgay İsbir*	**Lecture** Protein Synthesis and Turnover *Turgay İsbir*
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Independent Learning**	**Independent Learning**	**Independent Learning**
17.00-17.50	**Independent Learning**				

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

COMMITTEE II – CELL
II. WEEK / 16 – 20 Nov 2015

	Monday 16-Nov-2015	Tuesday 17-Nov-2015	Wednesday 18-Nov-2015	Thursday 19-Nov-2015	Friday 20-Nov-2015
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture** Distribution of substances in body fluids *Bayram Yılmaz*	**Independent Learning**	**Laboratory / Med. Biology** Mitosis and Meiosis *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
10.00- 10.50	**Lecture** Introduction to Anatomy *Yüksel Aydar*	**Clinical Skills Learning** **ICP I** Basic life support *Güldal İzbırak & Arzu Akalın*	**Lecture** Cell Membrane *Bayram Yılmaz*	**Lecture** Aromaticity *Esra Önen Bayram*	**Group A** **Group B Independent Learning** **Group C Independent Learning**
11.00- 11.50	**Lecture** Terminology in Anatomy *Yüksel Aydar*	**Group A Independent Learning** **Group B** **Group C Independent Learning** **Group D Independent Learning**	**Lecture** Regulation of Gene Expression *Turgay İsbir*	**Lecture** Aromaticity *Esra Önen Bayram*	**Laboratory / Med. Biology** Mitosis and Meiosis *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
12.00- 12.50	**Lunch Break**		**Lecture** Regulation of Gene Expression *Turgay İsbir*	**Lecture** Interaction of radiation with matter *Bilge Güvenç Tuna*	**Group A Independent Learning** **Group B** **Group C Independent Learning**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Introduction to Embryology *Ünal Uslu*	**Lecture** Regulation of Gene Expression *Turgay İsbir*	**Laboratory / Med. Biology** Mitosis and Meiosis *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50	**Common Compulsory Course** Ataturk's Principles & History Of Modern Turkey		**Lecture** Gametogenesis; Spermatogenesis *Alev Cumbul*	**Lecture** Regulation of Gene Expression *Turgay İsbir*	**Group A Independent Learning** **Group B Independent Learning** **Group C**
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Lecture** Decay Law of Radioactivity *Bilge Güvenç Tuna*	**Independent Learning**	**Lecture** Protein Synthesis and Turnover *Turgay İsbir*
17.00-17.50	**Independent Learning**		**Independent Learning**		**Lecture** Protein Synthesis and Turnover *Turgay İsbir*

COMMITTEE II – CELL
III. WEEK / 23 – 27 Nov 2015

	Monday 23-Nov-2015	Tuesday 24-Nov-2015	Wednesday 25-Nov-2015	Thursday 26-Nov-2015	Friday 27-Nov-2015
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Lecture** Introduction to Osteology *Yüksel Aydar*	**Clinical Skills Learning** **ICP I** Basic life support *Güldal İzbırak & Arzu Akalın*	**Lecture** General structures of bacteria, mycoplasma, chlamydia and rickettsiae *Gülden Çelik*	**Lecture** Carbonyl function *Esra Önen Bayram*	**Lecture** Chinese Medicine *Elif Vatanoğlu Lutz*
11.00- 11.50	**Lecture** Bones of the Upper Limb *Yüksel Aydar*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C** / **Group D Independent Learning**	**Lecture** General structures of bacteria, mycoplasma, chlamydia and rickettsiae *Gülden Çelik*	**Lecture** Carbonyl function *Esra Önen Bayram*	**Lecture** Chinese Medicine *Elif Vatanoğlu Lutz*
12.00- 12.50	**Lunch Break**		**Lecture** Tools in Medical Biology *Deniz Kıraç*	**Lecture** Osmotic pressure and permeability of the cell membrane *Bayram Yılmaz*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Oogenesis; Ovarian Cycle *Ünal Uslu*	**Lecture** Genomics, Proteomics and Metabolomics *Turgay İsbir*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
15.00- 15.50	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*		**Lecture** Follicular and Menstruel Cycle *Ünal Uslu*	**Lecture** Genomics, Proteomics and Metabolomics *Turgay İsbir*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Lecture** Interaction of X or gamma rays with matter *Bilge Güvenç Tuna*	**Lecture** Photoelectric Action, Compton Action *Bilge Güvenç Tuna*	**Lecture** Tools in Medical Biology *Deniz Kıraç*
17.00-17.50	**Independent Learning**		**Independent Learning**	**Independent Learning**	**Lecture** Tools in Medical Biology *Deniz Kıraç*

COMMITTEE II – CELL
IV. WEEK / 30 Nov – 04 Dec 2015

	Monday 30-Nov-2015	Tuesday 01-Dec-2015	Wednesday 02-Dec-2015	Thursday 03-Dec-2015	Friday 04-Dec-2015
09.00- 09.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Basic life support *Güldal İzbırak & Arzu Akalın*	**Lecture** General structure of viruses *Gülden Çelik*	**Lecture** Carboxylic acid and Derivatives *Esra Önen Bayram*	**Lecture** Carboxylic acid and Derivatives *Esra Önen Bayram*
10.00- 10.50	**Lecture** Bones of the Upper Limb *Yüksel Aydar*	**Group A Independent Learning** **Group B Independent Learning** **Group C Independent Learning** **Group D**	**Lecture** General structure of viruses *Gülden Çelik*	**Lecture** Bones of the Lower Limb *Kaan Yücel*	**Lecture** Chromosome Structure and Function, Plasmids, Transposable Genetic Elements *Turgay İsbir*
11.00- 11.50	**Lecture** Bones of the Upper Limb *Yüksel Aydar*		**Laboratory** Bones of the upper limb *Yüksel Aydar* **Group A** / **Group B Lunch Break**	**Lecture** Bones of the Lower Limb *Kaan Yücel*	**Lecture** DNA Damage and Repair Mechanism *Turgay İsbir*
12.00- 12.50	**Lunch Break**	**Lunch Break**	**Group A Lunch Break** / **Group B**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Independent Learning**	**Lecture** Fertilization *Alev Cumbul*	**Lecture** Bones of the Lower Limb *Kaan Yücel*	**Lecture** DNA Damage and Repair Mechanism *Turgay İsbir*
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Blastulation *Alev Cumbul*	**Lecture** Transport of Substances Through the Cell Membrane *Bayram Yılmaz*	**Lecture** Half Value Layer, Attenuation *Bilge Güvenç Tuna*
15.00- 15.50	**Common Compulsory Course** Ataturk's Principles & History Of Modern Turkey *Davut Ekşi*		**Independe Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Lecture** Transport of Substances Through the Cell Membrane *Bayram Yılmaz*	**Lecture** Units of Radioactivity *Bilge Güvenç Tuna*
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Independent Learning**	**Independent Learning**
17.00-17.50	**Independent Learning**		**Independent Learning**		

COMMITTEE II – CELL
V. WEEK / 07 – 11 Dec 2015

	Monday 07-Dec-2015	Tuesday 08-Dec-2015	Wednesday 09-Dec-2015	Thursday 10-Dec-2015	Friday 11-Dec-2015
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Laboratory / Med. Biology** Epigenetics *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
10.00- 10.50	**Lecture** Radioisotopes in Medicine *Bilge Güvenç Tuna* **Lecture**	**Clinical Skills Learning** **ICP I** Patient-Causalty Transportation / Bandaging techniques *Özlem Tanrıöver & Hülya Akan*	**Lecture** General structure of fungi *Yeşim Gürol*	**Lecture** Amines *Esra Önen Bayram*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50	Biological mechanisms of Radiation *Bilge Güvenç Tuna*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D Independent Learning**	**Lecture** General structure of fungi *Yeşim Gürol*	**Lecture** Carbohydrates *Esra Önen Bayram*	**Laboratory / Med. Biology** Epigenetics *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
12.00- 12.50	**Lunch Break**		**Lecture** Radiation Protection (Safety) *Bilge Güvenç Tuna*	**Independent Learning**	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Implantation *Alev Cumbul*	**Lecture** Mutation and Polymorphism *Turgay İsbir*	**Laboratory / Med. Biology** Epigenetics *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50	**Common Compulsory Course** Ataturk's Principles & History Of Modern Turkey *Davut Ekşi*		**Lecture** Gastrulation *Alev Cumbul*	**Lecture** Mutation and Polymorphism *Turgay İsbir*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Laboratory** Bones of the lower limb *Kaan Yücel* **Group A Independent Learning** / **Group B**	**Lecture** Indian Medicine *Elif Vatanoğlu Lutz*	**Independent Learning**
17.00-17.50	**Independent Learning**		**Group A** / **Group B Independent Learning**	**Lecture** Indian Medicine *Elif Vatanoğlu Lutz*	

COMMITTEE II – CELL
VI. WEEK / 14 – 18 Dec 2015

	Monday 14-Dec-2015	Tuesday 15-Dec-2015	Wednesday 16-Dec-2015	Thursday 17-Dec-2015	Friday 18-Dec-2015
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture** Vertebral column, ribs and sternum *Kaan Yücel*	**Independent Learning**	**Laboratory / Med. Biology** Nucleic Acid Purification *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
10.00- 10.50	**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Clinical Skills Learning** **ICP I** Patient-Causalty Transportation /Bandaging techniques *Özlem Tanrıöver & Hülya Akan*	**Lecture** General structure of parasites *Yeşim Gürol*	**Lecture** Lipids *Esra Önen Bayram*	**Group A** / **Group B Indep.endent Learning** / **Group C Independent Learning**
11.00- 11.50	**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning** / **Group D Independent Learning**	**Lecture** General structure of parasites *Yeşim Gürol*	**Lecture** Proteins *Esra Önen Bayram*	**Laboratory / Med. Biology** Nucleic Acid Purification *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
12.00- 12.50	**Lunch Break**		**Lecture** Medical Imaging: Applications of X-ray attenuation & detection *Bilge Güvenç Tuna*	**Independent Learning**	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Somitogenesis; Mesoderm Orgnization *Ünal Uslu*	**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Laboratory / Med. Biology** Nucleic Acid Purification *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*		**Lecture** Neurulation; Neuroectoderm Orgnization *Ünal Uslu*	**Lecture** Mendelian Laws and Inheritance *Turgay İsbir*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50		**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Laboratory** Vertebral column, ribs & sternum *Kaan Yücel* **Group A** / **Group B Independent Learning**	**Lecture** Greek Medicine and Contemporary Medicine *Elif Vatanoğlu Lutz*	**Independent Learning**
17.00-17.50	**Lecture** Vertebral column, ribs and sternum *Kaan Yücel*		**Group A Independent Learning** / **Group B**	**Lecture** Greek Medicine and Contemporary Medicine *Elif Vatanoğlu Lutz*	

COMMITTEE II – CELL
VII. WEEK / 21 – 24 Dec 2015

	Monday 21-Dec-2015	Tuesday 22-Dec-2015	Wednesday 23-Dec-2015	Thursday 24-Dec-2015	Friday 25-Dec-2015
09.00- 09.50	**Independent Learning**	**Clinical Skills Learning** **ICP I** Patient-Causalty Transportation / Bandaging techniques *Özlem Tanrıöver & Hülya Akan*	**Lecture** Problem Solving *Esra Önen Bayram*	**Independent Learning**	**Laboratory / Physiology** Osmosis & Diffusion *Mehtap Kaçar*
10.00- 10.50	**Lecture** Skeleton of the pelvis *Yüksel Aydar*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C** / **Group D Independent Learning**	**Lecture** Problem Solving *Esra Önen Bayram*		**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50	**Lecture** Skeleton of the pelvis *Yüksel Aydar*		**Lecture** Medical Imaging: Nuclear Medicine *Bilge Güvenç Tuna*		**Laboratory / Physiology** Osmosis & Diffusion *Mehtap Kaçar*
12.00- 12.50	**Lunch Break**	**Laboratory** Skeleton of the pelvis *Yüksel Aydar* **Group B** / **Group A Lunch Break**	**Lecture** Lasers in Medicine *Bilge Güvenç Tuna*	**Lunch Break**	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Group B Lunch Break** / **Group A**	**Lunch Break**	**Independent Learning**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Biological Aspects of Development *Turgay İsbir*	**Lecture** Transport of Substances Through the Cell Membrane *Bayram Yılmaz*	**Laboratory / Physiology** Osmosis & Diffusion *Mehtap Kaçar*
15.00- 15.50	**Discussion (Large Group)** Owerview *Kaan Yücel*		**Lecture** Biological Aspects of Development *Turgay İsbir*	**Lecture** Lasers in Medicine *Bilge Güvenç Tuna*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Discussion (Large Group)** Owerview *Kaan Yücel*	**Common Compulsory Course** Humanities *Instructor* **16.00-19.50**	**Independent Learning**	**Independent Learning**	**Independent Learning**
17.00-17.50	**Independent Learning**				

COMMITTEE II – CELL
VIII. WEEK / 28 – 30 Dec 2015

<table>
<tr><th></th><th>Monday
28-Dec-2015</th><th>Tuesday
29-Dec-2015</th><th>Wednesday
30-Dec-2015</th><th>Thursday
31-Dec-2015</th><th>Friday
01-Jan-2016</th></tr>
<tr><td>09.00- 09.50</td><td colspan="2" rowspan="3">Clinical Skills Learning
ICP I
Patient-Causalty Transportation / Bandaging techniques
Özlem Tanrıöver & Hülya Akan
Group A Independent Learning
Group B Independent Learning
Group C Independent Learning
Group D</td><td rowspan="3">Independent Learning</td><td>Independent Learning</td><td rowspan="4">Independent Learning</td><td rowspan="4">NEW YEAR HOLIDAY</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Assessment Session
Committee II
(MCQ-EMQ)</td></tr>
<tr><td>11.00- 11.50</td></tr>
<tr><td>12.00- 12.50</td><td colspan="2">Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>13.00- 13.50</td><td colspan="2" rowspan="3">Assessment Session
Anatomy
(Practical Exam)</td><td rowspan="6">Independent Learning</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Program Evaluation Session
Review of the Exam Questions, Evaluation of the Commitee II Program
Head of Commitee</td><td rowspan="5">Independent Learning</td><td rowspan="5">NEW YEAR HOLIDAY</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td colspan="2" rowspan="3">Assessment Session
Medical Biology
(Practical Exam)</td><td rowspan="3">Independent Learning</td></tr>
<tr><td>17.00-17.50</td></tr>
</table>

COMMITTEE III - TISSUE I

DISTRIBUTION of LECTURE HOURS

January 04, 2016 - February 12, 2015

COMMITTEE DURATION: 6 WEEKS

MED 104	**BASIC MEDICAL SCIENCES I**	**THEO.**	**PRAC.**	**TOTAL**
	DISCIPLINE	***51***	***18***	***69***
	ANATOMY	16	2Grx5H	21
	BIOPHYSICS	8	0	8
	HISTOLOGY & EMBRYOLOGY	13	2Grx5H	18
	MEDICAL HISTORY & ETHICS	6	0	6
	PHYSIOLOGY	10	3Grx8H	18
	SCIENTIFIC PROJECT I	2	0	2
MD 102	**ICP-I**	9	1Grx3H	9
	TOTAL	**60**	**21**	**81**

Coordination Committee	Head	CIGDEM KASPAR, Assist. Prof.
	Secretary	SERDAR OZDEMIR, Assist. Prof.
	Member	BİLGE GÜVENÇ TUNA, Assist. Prof.
	Member	HALE A. TASYIKAN, Assist. Prof.

COMMITTEE III –TISSUE I
LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**FACULTY**
ANATOMY	Kaan YÜCEL, MD, PhD Assoc. Prof.
	Yüksel AYDAR, PhD Prof.
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof.
	Bilge GÜVENÇ TUNA, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof.
	Alev CUMBUL PhD Assist. Prof.
	Oya ALAGÖZ, MD Assist. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU, MD Assoc. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof.
	Mehtap KAÇAR, MD, PhD Assoc. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD Assoc. Prof.

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

COMMITTEE III –TISSUE I
AIM AND LEARNING OBJECTIVES

AIM

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

LEARNING OBJECTIVES

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

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

COMMITTEE III –TISSUE I
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	LECTURER / INSTRUCTOR	NUMBER OF MCQs			
		CE	FE	IE	TOTAL
1.0, 2.0, 3.0	Dr. K. Yücel	10	3	3	16
	Dr. Y. Aydar	12	3	3	18
5.0, 6.0	Dr. B.Güvenç Tuna	15	4	4	23
7.0, -11.0	Dr. Ü. Uslu	11	3	3	17
	Dr. A. Cumbul	13	3	3	19
12.0	Dr. E. Vatanoğlu	11	3	3	17
13.0 -16.0	Dr. B. Yılmaz	18	4	4	26
		90	**23/200#**	**23/200#**	**136**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of EMQs*
		CS
1.0 - 2.0 - 3.0	ANATOMY	3
3.0 – 7.0	HISTOLOGY & EMBRYOLOGY	3
11.0 -14.0	PHYSIOLOGY	4
	TOTAL	**10**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of ASSESSMENT TOOLS	
		CS	
		DOPS	LPE
1.0 - 2.0 - 3.0	ANATOMY	-	3
3.0 – 7.0	HISTOLOGY & EMBRYOLOGY	3	-
11.0 -14.0	PHYSIOLOGY	-	4
	TOTAL	**10**	

Total number of MCQs are **90**, equal to **90** pts,
Each MCQ has a value equal to **1** pt,
DOPS and LPE have value equal to **10** pts.

MCQ: Multiple Choice Question
EMQ: Extending Matching Question
DOPS: Direct Observation of Procedural Skills
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
pts: Points
23 out of 200 FE and ICE MCQs will be from the Committee (Each question is of worth **0.5** pts).

COMMITTEE III - TISSUE I
I. WEEK / 04 – 08 Jan 2016

	Monday 04-Jan-2016	Tuesday 05-Jan-2016	Wednesday 06-Jan-2016	Thursday 07-Jan-2016	Friday 08-Jan-2016
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture** Greek Medicine and Contemporary Medicine *Elif Vatanoğlu Lutz*	**Lecture** Skeletal Muscle Physiology *Bayram Yılmaz*	**Independent Learning**
10.00- 10.50	**Lecture / ICP I** Introduction to Communication Skills *Özlem Tanrıöver*		**Lecture** Greek Medicine and Contemporary Medicine *Elif Vatanoğlu Lutz*	**Lecture** Skeletal Muscle Physiology *Bayram Yılmaz*	
11.00- 11.50	**Lecture / ICP I** Basic Communication Skills *Arzu Akalın*		**Lecture** Membrane Potentials and Action Potentials *Bayram Yılmaz*	**Lecture** Contractile Machinery; Sliding Filament Theory *Bilge Güvenç Tuna*	**Laboratory / Histology Assessment (DOPs)** Histology of Epithel Tissue *Ünal Uslu & Alev Cumbul*
12.00- 12.50	**Lecture / ICP I** Basic Communication Skills *Arzu Akalın*		**Lecture** Membrane Potentials and Action Potentials *Bayram Yılmaz*	**Lecture** Contractile Machinery; Sliding Filament Theory *Bilge Güvenç Tuna*	**Group A Independent Learning** / **Group B**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Introductory Session** Introduction to Commitee III *Head of Commitee*	**Lecture** Skull (Neurocranium) *Kaan Yücel*	**Independent Learning**	**Lecture** Histology of Covering Epithelium; Surface Specification *Ünal Uslu*	**Laboratory / Histology Assessment (DOPs)** Histology of Epithel Tissue *Ünal Uslu & Alev Cumbul*
15.00- 15.50	**Independent Learning**	**Lecture** Skull (Neurocranium) *Kaan Yücel*	**Lecture** Histology of Covering Epithelium; Structure, Classification *Ünal Uslu*	**Lecture** Histology of Glandular Epithelium *Ünal Uslu*	**Group A** / **Group B Independent Learning**
16.00- 16.50	**Independent Learning**	**Independent Learning**	**Laboratory** Skull (Neurocranium) *Kaan Yücel* **Group A** / **Group B Independent Learning**	**Independent Learning**	**Independent Learning**
17.00-17.50			**Group A Independent Learning** / **Group B**		

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

COMMITTEE III - TISSUE I
II. WEEK / 11 – 15 Jan 2016

	Monday 11-Jan-2016	Tuesday 12-Jan-2016	Wednesday 13-Jan-2016	Thursday 14-Jan-2016	Friday 15-Jan-2016
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Laboratory / Physiology** EMG I *Bayram Yılmaz*
10.00- 10.50	**Lecture / ICP I** The Medical Interview *Güldal İzbırak*				**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50	**Lecture / ICP I** The Medical Interview *Güldal İzbırak*		**Lecture** Contraction of Skeletal Muscle *Bayram Yılmaz*	**Lecture** Norma Cranii *Kaan Yücel*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
12.00- 12.50	**Lecture / ICP I** Interviewing Techniques *Güldal İzbırak*		**Lecture** Neuromuscular Transmission *Bayram Yılmaz*	**Lecture** Norma Cranii *Kaan Yücel*	
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Histology of Muscle Tissue; General Specification *Alev Cumbul*	**Lecture** Histology of Heart & Smooth Muscle *Alev Cumbul*	**Laboratory / Histology Assessment (DOPs)** Histology of Muscle Tissue *Ünal Uslu & Alev Cumbul*	**Laboratory / Histology Assessment (DOPs)** Histology of Muscle Tissue *Ünal Uslu & Alev Cumbul*	**Laboratory / Physiology** EMG I *Bayram Yılmaz*
15.00- 15.50	**Lecture** Histology of Striated Skeletal Muscle *Alev Cumbul*	**Lecture** Development of the Muscular System *Alev Cumbul*	**Group A** / **Group B Independent Learning**	**Group A Independent Learning** / **Group B**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Independent Learning**	**Lecture** Skull (Splanchocranium) *Kaan Yücel*	**Laboratory** Skull (Splanchocranium) *Kaan Yücel* **Group A Independent Learning** / **Group B**	**Independent Learning**	**Independent Learning**
17.00-17.50		**Lecture** Skull (Splanchocranium) *Kaan Yücel*	**Group A** / **Group B Independent Learning**		

COMMITTEE III - TISSUE I
III. WEEK / 18 – 22 Jan 2016

	Monday 18-Jan-2016	Tuesday 19-Jan-2016	Wednesday 20-Jan-2016	Thursday 21-Jan-2016	Friday 22-Jan-2016
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Laboratory / Physiology** EMG II *Bayram Yılmaz*
10.00- 10.50	**Lecture** Introduction to Arthrology *Yüksel Aydar*			**Lecture / ICP I** The Medical History *Hülya Akan*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50	**Lecture** Joints of the Upper limb *Yüksel Aydar*	**Laboratory** Joints of the Upper limb *Yüksel Aydar* **Group A** / **Group B Independent Learning**		**Lecture / ICP I** The Medical History *Hülya Akan*	**Laboratory / Physiology** EMG II *Bayram Yılmaz*
12.00- 12.50	**Independent Learning**	**Group A Independent Learning** / **Group B**	**Lecture** Histology of Connective Tissue Proper; Types *Ünal Uslu*	**Lecture / ICP I** Giving Information *Özlem Tanrıöver*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Joints of the Upper limb *Yüksel Aydar*	**Lecture** Muscle Mechanics; Muscular Force *Bilge Güvenç Tuna*	**Lecture** Histology of Connective Tissue; Extracellular Matrix *Ünal Uslu*	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Laboratory / Physiology** EMG II *Bayram Yılmaz*
15.00- 15.50	**Lecture** Joints of the Upper limb *Yüksel Aydar*	**Lecture** Mechanical Powers of Cardiac and Skeletal Muscles *Bilge Güvenç Tuna*	**Lecture** Histology of Connective Tissue; Cells *Ünal Uslu*	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
17.00-17.50					

COMMITTEE III - TISSUE I
IV. WEEK / 25 – 29 Jan 2016

	Monday 25-Jan-2016	Tuesday 26-Jan-2016	Wednesday 27-Jan-2016	Thursday 28-Jan-2016	Friday 29-Jan-2016
09.00- 09.50	**Assessment Session** **ICP I** (MCQ-EMQ)	**Laboratory** Joints of the lower limb *Yüksel Aydar* **Group A Independent Learning** / **Group B**	**Lecture** Digital recording of biomedical signals *Bilge Güvenç Tuna*	**Independent Learning**	**Laboratory / Physiology** Smooth Muscle Contractility *Bayram Yılmaz* **Group A** / **Group B Independent Learning** / **Group C Independent Learning**
10.00- 10.50		**Laboratory** Joints of the lower limb *Yüksel Aydar* **Group A** / **Group B Independent Learning**	**Lecture** Digital recording of biomedical signals *Bilge Güvenç Tuna*	**Lecture** Blood WBC, Blood Smear *Alev Cumbul*	
11.00- 11.50		**Independent Learning**	**Lecture** Smooth Muscle Physiology *Bayram Yılmaz*	**Lecture** Introduction to Ethics *Elif Vatanoğlu Lutz*	**Laboratory / Physiology** Smooth Muscle Contractility *Bayram Yılmaz*
12.00- 12.50	**Lunch Break**		**Lecture** Smooth Muscle Physiology *Bayram Yılmaz*	**Lecture** Introduction to Ethics *Elif Vatanoğlu Lutz*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
13.00- 13.50	**Lecture** Joints of the Lower Limb *Yüksel Aydar*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**Lecture** Joints of the Lower Limb *Yüksel Aydar*	**Lecture** Introduction to Ethics *Elif Vatanoğlu Lutz*	**Lecture** Blood; RBC and Platelets *Alev Cumbul*	**Lecture** Biophysics of Smooth Muscle Contraction *Bilge Güvenç Tuna*	**Laboratory / Physiology** Smooth Muscle Contractility *Bayram Yılmaz*
15.00- 15.50	**Lecture** Joints of the Lower Limb *Yüksel Aydar*	**Lecture** Introduction to Ethics *Elif Vatanoğlu Lutz*	**Lecture** Blood WBC, Blood Smear *Alev Cumbul*	**Lecture** Biophysics of Smooth Muscle Contraction *Bilge Güvenç Tuna*	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Independent Learning**	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*	**Independent Learning**	**Independent Learning**	**Independent Learning**
17.00-17.50					

COMMITTEE III - TISSUE I
V. WEEK / 01 – 05 Feb 2016

	Monday 01-Feb-2016	Tuesday 02-Feb-2016	Wednesday 03-Feb-2016	Thursday 04-Feb-2016	Friday 05-Feb-2016
09.00- 09.50	**Clinical Skills Learning** **ICP I** Patient-doctor communication skills General approach *Özlem Tanrıöver & Hülya Akan*	**Independent Learning**	**Lecture** Physiology of Cardiac Muscle *Bayram Yılmaz*	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Group A** **Group B Independent Learning** **Group C Independent Learning** **Group D Independent Learning**		**Lecture** Physiology of Cardiac Muscle *Bayram Yılmaz*	**Discussion (Large Group)** Owerview *Kaan Yücel*	
11.00- 11.50		**Laboratory** Joints of the vertebral column *Yüksel Aydar* **Group A** **Group B Independent Learning**	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Bayram Yılmaz*	**Independent Learning**	
12.00- 12.50	**Lunch Break**	**Group A Independent Learning** **Group B**	**Group A** **Group B Independent Learning** **Group C Independent Learning**		**Independent Learning**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Laboratory / Physiology** Cardiac Muscle with PhysioEx *Bayram Yılmaz*	**Laboratory / Histology Assessment (DOPs)** Make up Session *Ünal Uslu & Alev Cumbul* **Independent Learning**	**Independent Learning**
15.00- 15.50	**Lecture** Joints of the vertebral column *Yüksel Aydar*		**Group A Independent Learning** **Group B** **Group C Independent Learning**		
16.00- 16.50	**Lecture** Joints of the vertebral column *Yüksel Aydar*	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*	**Group A Independent Learning** **Group B Independent Learning** **Group C**	**Independent Learning**	
17.00-17.50	**Independent Learning**				

COMMITTEE III - TISSUE I
VI. WEEK / 11 – 15 Feb 2016

	Monday 08-Feb-2016	Tuesday 09-Feb-2016	Wednesday 10 -Feb-2016	Thursday 11-Feb-2016	Friday 12-Feb-2016
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50				**Assessment Session** Anatomy (Practical Exam)	**Assessment Session** **Committee III** (MCQ-EMQ)
11.00- 11.50					
12.00- 12.50	**Lunch Break**				
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Independent Learning**	**Assessment Session** Physiology (Practical Exam)	**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Commitee III Program *Head of Commitee*
15.00- 15.50	**Independent Learning**				
16.00- 16.50		**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*		**Independent Learning**	**Independent Learning**
17.00-17.50					

MIDTERM BREAK 15 FEB 2015 - 26 FEB 2016

COMMITTEE IV - TISSUE II

DISTRIBUTION of LECTURE HOURS

February 29, 2016 - April 22, 2016

COMMITTEE DURATION: 8 WEEKS

MED 104	**BASIC MEDICAL SCIENCES I**	**THEO.**	**PRAC.**	**TOTAL**
	DISCIPLINE	***95***	***16***	***113***
	ANATOMY	18	2Grx7H	25
	BEHAVIORAL SCIENCES	12	0	14
	BIOCHEMISTRY	30	3Grx2H	32
	BIOPHYSICS	4	0	4
	BIOSTATISTICS	12	0	12
	HISTOLOGY & EMBRYOLOGY	9	2Grx5H	14
	MEDICAL BIOLOGY	8	3Grx2H	10
	SCIENTIFIC PROJECT I	2	0	2

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

TOTAL	**153**	**32**	**185**

Coordination Committee	Head	DENİZ KIRAÇ, PhD, Assist. Prof.
	Secretary	SONER DOĞAN, PhD Assoc. Prof.
	Member	Elif VATANOĞLU LUTZ, Assoc. Prof
	Member	AKİF MAHAMAROV, Assist. Prof.

COMMITTEE IV – TISSUE II
LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**FACULTY**
ANATOMY	Kaan YÜCEL, MD, PhD Assoc. Prof.
	Yüksel AYDAR, PhD Prof.
BEHAVIORAL SCIENCES	
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof.
	Jale ÇOBAN MD Prof.
BIOPHYSICS	Bilge GÜVENÇ TUNA PhD Assist. Prof.
	Akif Mahamarov PhD Assist. Prof.
BIOSTATISTICS	Çiğdem KASPAR, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof.
	Alev CUMBUL PhD Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof.
	Soner DOĞAN, PhD Assoc. Prof.
	Deniz KIRAÇ, PhD, Assist. Prof.
SCIENTIFIC PROJECT I	Gülderen YANIKKAYA DEMİREL, MD Assoc. Prof.

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

COMMITTEE IV – TISSUE II
AIM AND LEARNING OBJECTIVES

AIM

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

LEARNING OBJECTIVES

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

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

COMMITTEE IV – TISSUE II
COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	LECTURER / INSTRUCTOR	NUMBER OF MCQs*			
		CE	FE	IE	TOTAL
1.0, 2.0, 3.0	Dr. K. Yücel	9	4	4	17
	Dr. Y. Aydar	8	4	4	16
4.0, - 7.0		11	5	5	21
8.0 – 10.0	Dr. İ. Özden	29	14	14	57
11.0	Dr. B.G. Tuna	4	2	2	8
12.0	Dr. Ç. Kaspar	-	6	6	12
13.0 – 14.0	Dr. Ü. Uslu	4	2	2	8
	Dr. A. Cumbul	5	2	2	9
15.0	Dr. T. İsbir	8	4	4	16
		78	**43/200#**	**43/200#**	**164**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of EMQs and MEQs	
		CS	
		EMQ	MEQ*
1.0 - 2.0 - 3.0	ANATOMY	4	-
7.0 – 9.0	BIOCHEMISTRY	4	-
10.0	BIOSTATISTICS	-	12
3.0 – 7.0	HISTOLOGY & EMBRYOLOGY	2	-
	TOTAL	**10**	**12**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of ASSESSMENT TOOLS	
		CS	
		DOPS	LPE
1.0 - 2.0 - 3.0	ANATOMY	-	3
7.0 – 9.0	BIOCHEMISTRY	-	2
3.0 – 7.0	HISTOLOGY & EMBRYOLOGY	3	-
14.0	MEDICAL BIOLOGY	-	2
	TOTAL	**10**	

Total number of MCQs are **78**, equal to **90 pts,**
Each MCQ has a value equal to **1,153 pts,**
DOPS and LPE have value equal to **10 pts.**

MCQ: Multiple Choice Question
EMQ: Extending Matching Question
MEQ: Modified Essay Questions *Bioistatistic exam will be given separately after the committee exam.
DOPS: Direct Observation of Procedural Skills
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
pts: Points
43 out of 200 FE and ICE MCQs will be from the Committee (Each question is of worth **0.5** pts).

COMMITTEE IV -TISSUE II
I. WEEK / 29 Feb – 04 Mar 2016

	Monday 29-Feb-2016	Tuesday 01-Mar-2016	Wednesday 02-Mar-2016	Thursday 03-Mar-2016	Friday 04-Mar-2016
09.00- 09.50	**Clinical Skills Learning** **ICP I** Patient-doctor communication skills General approach *Özlem Tanrıöver & Hülya Akan*	**Independent Learning**	**PROGRAM IMPROVEMENT SESSION** *Phase Coordinator*	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Group A Independent Learning** / **Group B** / **Group C Independent Learning** / **Group D Independent Learning**		**Lecture** Classification of carbohydrates, their general features *İnci Özden*	**Lecture** Monosaccharide derivatives *İnci Özden*	**Lecture** Disaccharides *İnci Özden*
11.00- 11.50		**Laboratory** Muscles of the Back *Yüksel Aydar* **Group B** / **Group A Independent Learning**	**Lecture** Classification of carbohydrates, their general features *İnci Özden*	**Lecture** Monosaccharide derivatives *İnci Özden*	**Lecture** Polysaccharides: glycogen, starch *İnci Özden*
12.00- 12.50	**Lunch Break**	**Group B Independent Learning** / **Group A**	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lecture** Histology of Adipose Tissue *Ünal Uslu*	**Lecture** Types of Cartilage Tissue *Ünal Uslu*	**Laboratory / Histology Assessment (DOPs)** Connective & Cartilage Tissue *Ünal Uslu & Alev Cumbul*
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Histology of Cartilage Tissue General Specification *Ünal Uslu*	**Behavioral Science / Lecture** Life Cycle: Pregnancy through Preschool *Instructors*	**Group A Independent Learning** / **Group B**
15.00- 15.50	**Lecture** Introduction to Myology *Yüksel Aydar*		**Lecture** Extracellular Matrix *Turgay İsbir*	**Behavioral Science / Lecture** Life Cycle; School age, Adolescence and Adulthood *Instructors*	**Group A** / **Group B Independent Learning**
16.00- 16.50	**Lecture** Muscles of the Back *Yüksel Aydar*	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*	**Lecture** Extracellular Matrix *Turgay İsbir*	**ELECTIVE WEEK I**	
17.00-17.50	**Lecture** Muscles of the Back *Yüksel Aydar*		**Independent Learning**		**Independent Learning**

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

COMMITTEE IV - TISSUE II
II. WEEK / 7 – 11 Mar 2016

	Monday 07-Mar-2016	Tuesday 08-Mar-2016	Wednesday 09-Mar-2016	Thursday 10-Mar-2016	Friday 11-Mar-2016
09.00- 09.50	**Clinical Skills Learning** **ICP I** Patient-doctor communication skills General approach *Özlem Tanrıöver & Hülya Akan*	**Independent Learning**	**Lecture** Muscles of the Shoulder & Arm *Kaan Yücel*	**Independent Learning**	**Lecture** Mechanical Properties of Biomaterials *Bilge Güvenç Tuna*
10.00- 10.50	**Group A Independent Learning** / **Group B Independent Learning** / **Group C** / **Group D Independent Learning**		**Lecture** Classification of lipids, general features *İnci Özden*	**Lecture** Extracellular Matrix *Turgay İsbir*	**Lecture** Triacylglycerols, phospholipids *İnci Özden*
11.00- 11.50			**Lecture** Saturated and unsaturated fatty acids, essential fatty acids *İnci Özden*	**Lecture** Extracellular Matrix *Turgay İsbir*	**Lecture** Isoprene derivatives, steroids, eicosanoids *İnci Özden*
12.00- 12.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Independent Learning**	**Lecture** Histology of Bone Tissue; Microscopic Structure *Alev Cumbul*	**Behavioral Science / Lecture** Life Cycle; Aging, Death and Bereavement *Instructors*	**Lecture** Main concepts in biostatistics *Çiğdem Kaspar*
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Histology of Bone Tissue; Ossification *Alev Cumbul*	**Behavioral Science / Lecture** Life Cycle; Aging, Death and Bereavement *Instructors*	**Lecture** Main concepts in biostatistics *Çiğdem Kaspar*
15.00- 15.50	**Lecture** Glycosaminoglycans: Structures and functions *İnci Özden*		**Lecture** Muscles of the Shoulder & Arm *Kaan Yücel*	**Independent Learning**	**Lecture** Extracellular Matrix *Turgay İsbir*
16.00- 16.50	**Lecture** Glycosaminoglycans: Structures and functions *İnci Özden*	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*	**Laboratory** Muscles of the Shoulder & Arm *Kaan Yücel* **Group B Independent Learning** / **Group A**	**ELECTIVE WEEK II**	**Lecture** Extracellular Matrix *Turgay İsbir*
17.00-17.50	**Independent Learning**		**Group B** / **Group A Independent Learning**		**Independent Learning**

COMMITTEE IV - TISSUE II
III. WEEK / 14 – 18 Mar 2016

	Monday 14-Mar-2016	Tuesday 15-Mar-2016	Wednesday 16-Mar-2016	Thursday 17-Mar-2016	Friday 18-Mar-2016
09.00- 09.50	PHYSICIAN'S DAY	Independent Learning	Independent Learning	Independent Learning	Independent Learning
10.00- 10.50			**Lecture** Classification of lipids, general features *İnci Özden*	**Lecture** Frequency distributions *Çiğdem Kaspar*	**Lecture** Triacylglycerols, phospholipids *İnci Özden*
11.00- 11.50			**Lecture** Saturated and unsaturated fatty acids, essential fatty acids *İnci Özden*	**Lecture** Frequency distributions *Çiğdem Kaspar*	**Lecture** Isoprene derivatives, steroids, eicosanoids *İnci Özden*
12.00- 12.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lecture** Elasticity *Bilge Güvenç Tuna*	**Lecture** Development of the Axial Skeleton and Limb *Ünal Uslu*	**Behavioral Science / Lecture** The Biological Bases of Behavior *Instructors*	**Lecture** Graphics *Çiğdem Kaspar*
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Histology of Nervous Tissue; General Specification *Alev Cumbul*	**Behavioral Science / Lecture** The Biological Bases of Behavior *Instructors*	**Lecture** Measures of central tendency *Çiğdem Kaspar*
15.00- 15.50	WHITE COAT CEREMONY		**Independent Learning**	**Lecture** Stress-Strain, Stiffness *Bilge Güvenç Tuna*	**Lecture** Shear stress, Poisson's Law *Bilge Güvenç Tuna*
16.00- 16.50		**Lecture** Glycosaminoglycans: Structures and functions *İnci Özden*	**Lecture** Muscles of the Forarm & Hand *Kaan Yücel*	ELECTIVE WEEK III	Independent Learning
17.00-17.50		**Lecture** Glycosaminoglycans: Structures and functions *İnci Özden*	**Lecture** Muscles of the Forarm & Hand *Kaan Yücel*		

COMMITTEE IV - TISSUE II
IV. WEEK / 21 – 25 Mar 2016

	Monday 21-Mar-2016	Tuesday 22-Mar-2016	Wednesday 23-Mar-2016	Thursday 24-Mar-2016	Friday 25-Mar-2016
09.00- 09.50	**Clinical Skills Learning** **ICP I** Patient-doctor communication skills, General approach *Özlem Tanrıöver & Hülya Akan*	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Group A Independent Learning** **Group B Independent Learning** **Group C Independent Learning** **Group D**	**Laboratory** Muscles of the Forarm & Hand *Kaan Yücel* **Group A Independent Learning** / **Group B**	**Lecture** Steroides, eicosanoids *İnci Özden*	**Lecture** Proteins: classification, general features *İnci Özden*	**Lecture** Amino acids, amino acid derivatives *İnci Özden*
11.00- 11.50		**Group A** / **Group B Independent Learning**	**Lecture** Steroides, eicosanoids *İnci Özden*	**Lecture** Proteins: classification, general features *İnci Özden*	**Lecture** Glutathione: structure and functions *İnci Özden*
12.00- 12.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Independent Learning**	**Lecture** Neuron Types *Alev Cumbul*	**Behavioral Science / Lecture** Sleep and Sleep Disorders *Instructors*	**Lecture** Measures of central dispersion *Çiğdem Kaspar*
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Glia Types *Alev Cumbul*	**Behavioral Science / Lecture** Substance Releated Disorders *Instructors*	**Lecture** Measures of central dispersion *Çiğdem Kaspar*
15.00- 15.50	**Independent Learning**		**Lecture** Introduction to Peripheral Neurovascular Structures *Kaan Yücel*	**Independent Learning**	**Lecture** Biology of oxidative stress *Turgay İsbir*
16.00- 16.50	**Lecture** Muscles of the Forarm & Hand *Kaan Yücel*	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*	**Laboratory** Introduction to Peripheral Neurovascular Structures *Kaan Yücel* **Group B Independent Learning** / **Group A**	**ELECTIVE WEEK IV**	**Lecture** Biology of oxidative stress *Turgay İsbir*
17.00-17.50	**Independent Learning**		**Group B** / **Group A Independent Learning**		**Independent Learning**

COMMITTEE IV - TISSUE II
V. WEEK / 28 Mar– 01 Apr 2016

	Monday 28-Mar-2016	Tuesday 29-Mar-2016	Wednesday 30-Mar-2016	Thursday 31-Mar-2016	Friday 01-Apr-2016
09.00- 09.50	**Clinical Skills Learning ICP I** Patient-doctor communication skills using SPs *Güldal İzbırak & Arzu Akalın*	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Laboratory / Med. Biology** Oxidative Stress and Antioxidant System *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
10.00- 10.50	**Group A** / **Group B Independent Learning** / **Group C Independent Learning** / **Group D Independent Learning**	**Independent Learning**	**Lecture** Glycoproteins: structure and function *İnci Özden*	**Lecture** Structures of proteins *İnci Özden*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
11.00- 11.50		**Laboratory** Brachial Plexus *Yüksel Aydar* **Group B** / **Group A Independent Learning**	**Lecture** Glycoproteins: structure and function *İnci Özden*	**Lecture** Fibrous and globular proteins *İnci Özden*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
12.00- 12.50	**Lunch Break**	**Group B Independent Learning** / **Group A**	**Lunch Break**	**Lunch Break**	
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lecture** Measures of central tendency *Çiğdem Kaspar*	**Behavioral Science / Lecture** Psychoanalythic Theory and Defense Mechanism *Instructors*	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Measures of central tendency *Çiğdem Kaspar*	**Behavioral Science / Lecture** Psychoanalythic Theory and Defense Mechanism *Instructors*	**Laboratory / Med. Biology** Oxidative Stress and Antioxidant System *Turgay İsbir* *Soner Doğan & Deniz Kıraç*
15.00- 15.50	**Lecture** Brachial Plexus *Yüksel Aydar*		**Independent Learning**	**Independent Learning**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Lecture** Brachial Plexus *Yüksel Aydar*	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*		**ELECTIVE WEEK V**	**Independent Learning**
17.00-17.50	**Independent Learning**				

COMMITTEE IV - TISSUE II
VI. WEEK / 04 – 08 Apr 2016

	Monday 04-Apr-2016	Tuesday 05-Apr-2016	Wednesday 06-Apr-2016	Thursday 07-Apr-2016	Friday 08-Apr-2016
09.00- 09.50	**Clinical Skills Learning ICP I** Patient-doctor communication skills using SPs *Güldal İzbırak & Arzu Akalın*	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Group A Independent Learning** / **Group B** / **Group C Independent Learning** / **Group D Independent Learning**	**Independent Learning**	**Lecture** Nucleotides *İnci Özden*	**Lecture** Enzyme kinetics, regulatory enzymes *İnci Özden*	**Lecture** Rates and Ratios *Çiğdem Kaspar*
11.00- 11.50		**Laboratory** Nerves of the Upper Limb *Yüksel Aydar* — **Group A** / **Group B Independent Learning**	**Lecture** Enzymes: classification, general features *İnci Özden*	**Lecture** Enzymes of mitochondrial electron transport system *İnci Özden*	**Lecture** Standardization of disease rates *Çiğdem Kaspar*
12.00- 12.50	**Lunch Break**	**Group A Independent Learning** / **Group B**	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Assessment (DOPs)** Histology of Bone & Nerve Tissue *Ünal Uslu & Alev Cumbul* — **Group A** / **Group B Independent Learning**	**Behavioral Science / Lecture** Learning Theory *Instructors*	**Independent Learning**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*		**Behavioral Science / Lecture** Perception *Instructors*	
15.00- 15.50	**Lecture** Nerves of the Upper Limb *Yüksel Aydar*			**Independent Learning**	
16.00- 16.50	**Lecture** Nerves of the Upper Limb *Yüksel Aydar*	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*	**Group A Independent Learning** / **Group B**	**ELECTIVE WEEK VI**	
17.00-17.50	**Independent Learning**		**Independent Learning**		

COMMITTEE IV - TISSUE II
VII. WEEK / 11 – 15 Apr 2016

	Monday 11-Apr-2016	Tuesday 12-Apr-2016	Wednesday 13-Apr-2016	Thursday 14-Apr-2016	Friday 15-Apr-2016
09.00- 09.50	**Clinical Skills Learning ICP I** Patient-doctor communication skills using SPs *Güldal İzbırak & Arzu Akalın*	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Group A Independent Learning** / **Group B Independent Learning** / **Group C** / **Group D Independent Learning**	**Independent Learning**	**Lecture** Enzymes involved in detoxification of ROS *İnci Özden*	**Lecture** Lyases, isomerases, ligases *İnci Özden*	**Laboratory** Biochemistry *İnci Özden & Jale Çoban*
11.00- 11.50		**Laboratory** Vessels of the Upper Limb *Yüksel Aydar* **Group A Independent Learning** / **Group B**	**Lecture** Oxidoreductases, hydrolases, transferases *İnci Özden*	**Lecture** ATP production by substrate level phosphorylation *İnci Özden*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
12.00- 12.50	**Lunch Break**	**Group A** / **Group B Independent Learning**	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Discussion (Large Group)** Owerview *Kaan Yücel*	**Behavioral Science / Lecture** Perception *Instructors*	**Laboratory** Biochemistry *İnci Özden & Jale Çoban*
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Behavioral Science / Lecture** Emotion *Instructors*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
15.00- 15.50	**Lecture** Vessels of the Upper Limb *Yüksel Aydar*		**Lecture / Scientific Project I** How to Read and Write an Article *Gülderen Yanıkkaya Demirel*	**Independent Learning**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Lecture** Vessels of the Upper Limb *Yüksel Aydar*	**Lecture** Neurological Examination- Upper Limb *Kaan Yücel*	**Laboratory / Histology Assessment (DOPs)** Make up Session *Ünal Uslu & Alev Cumbul*	**ELECTIVE WEEK VII**	
17.00-17.50	**Independent Learning**	**Discussion (Large Group)** Owerview *Kaan Yücel*			**Independent Learning**

COMMITTEE IV - TISSUE II
VIII. WEEK / 18 – 22 Apr 2016

	Monday 18-Apr-2016	Tuesday 19-Apr-2016	Wednesday 20-Apr-2016	Thursday 21-Apr-2016	Friday 22-Apr-2016
09.00- 09.50	**Clinical Skills Learning** **ICP I** Patient-doctor communication skills using SPs *Güldal İzbırak & Arzu Akalın*	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Group A Independent Learning** **Group B Independent Learning** **Group C Independent Learning** **Group D**			**Assessment Session** Anatomy (Practical Exam)	**Assessment Session** **Committee IV** (MCQ-EMQ)
11.00- 11.50					
12.00- 12.50	**Lunch Break**				
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Independent Learning**	**Assessment Session** Biostatistics (Writing Exam)	**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Commitee IV Program *Head of Commitee*
15.00- 15.50	**ELECTIVE WEEK VIII**				
16.00- 16.50		**Independent Learning**		**Independent Learning**	**Independent Learning**
17.00-17.50	**Independent Learning**				

COMMITTEE V - ENERGY AND METABOLISM

DISTRIBUTION of LECTURE HOURS

April 25, 2016 - June 03, 2016

COMMITTEE DURATION: 6 WEEKS

MED 104	BASIC MEDICAL SCIENCES I	THEO.	PRAC.	TOTAL
	DISCIPLINE	**83**	**14**	**97**
	ANATOMY	17	2Grx8H	25
	BEHAVIORAL SCIENCES	12	0	12
	BIOCHEMISTRY	26	3Grx2H	28
	BIOSTATISTICS	12	3Grx2H	14
	HISTOLOGY and EMBRYOLOGY	8	2Grx2H	10
	MEDICAL BIOLOGY	7	0	7

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

TOTAL	**99**	**14**	**113**

Coordination Committee	Head	MEHTAP KACAR, Assoc. Prof.
	Secretary	Elif VATANOĞLU LUTZ, Assoc. Prof
	Member	BİLGE G. TUNA, Assist. Prof.,
	Member	AKİF MAHAMAROV, Assist. Prof.

COMMITTEE V - ENERGY AND METABOLISM

LECTURERS

BASIC MEDICAL SCIENCES I	
DISCIPLINE	**FACULTY**
ANATOMY	Kaan YÜCEL, MD, PhD Assoc. Prof.
	Yüksel AYDAR, PhD Prof.
BEHAVIORAL SCIENCES	
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof.
	Jale ÇOBAN, MD Assoc.Prof.
BIOSTATISTICS	Çiğdem KASPAR, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof.
	Alev CUMBUL, PhD Assist. Prof.
	Oya ALAGÖZ, MD Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof.
	Deniz KIRAÇ, PhD, Assist. Prof.
	Soner DOĞAN, PhD Assoc. Prof.

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

COMMITTEE V - ENERGY AND METABOLISM

AIMS AND LEARNING OBJECTIVES

AIM

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

LEARNING OBJECTIVES

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

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

COMMITTEE V - ENERGY AND METABOLISM

COMMITTEE ASSESSMENT TABLE

LEARNING OBJECTIVES	LECTURER / INSTRUCTOR	NUMBER OF MCQs			
		CE	FE	IE	TOTAL
1.0, 2.0	Dr. K. Yücel	10	4	4	18
	Dr. Y.Aydar	9	4	4	17
3.0, 4.0		12	5	5	22
5.0 - 8.0	Dr. İ. Özden	29	12	12	53
9.0, 10.0	Dr. Ç. Kaspar	-	6	6	12
11.0 - 13.0	Dr. Ü. Uslu	4	2	2	8
11.0 - 13.0	Dr. A. Cumbul	5	2	2	9
14.0	Dr. T. İsbir	8	3	3	14
		77	**38/200#**	**38/200#**	**153**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of EMQs and MEQs*	
		CS	
		EMQ	MEQ
1.0 - 2.0	ANATOMY	2	-
5.0 – 8.0	BIOCHEMISTRY	3	-
9.0 - 10.0	BIOSTATISTICS	-	12
11.0 - 13.0	HISTOLOGY & EMBRYOLOGY	1	-
	TOTAL	**6**	**12**

LEARNING OBJECTIVES	DISCIPLINE	POINTS of ASSESSMENT TOOLS	
		CS	
		DOPS	LPE
1.0 - 2.0	ANATOMY	-	3
5.0 - 8.0	BIOCHEMISTRY	-	1
11.0 - 13.0	HISTOLOGY & EMBRYOLOGY	1	-
	TOTAL	**5**	

Total number of MCQs are **77**, equal to **90 pts**,
Each MCQ has a value equal to **1,168 pts**,
DOPS and LPE have value equal to **10 pts**.

MCQ: Multiple Choice Question
EMQ: Extending Matching Question
MEQ: Modified Essay Questions *Bioistatistic exam will be given separately after the committee exam.
DOPS: Direct Observation of Procedural Skills
LPE: Practical Lecture Evaluation
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
pts: Points
38 out of 200 FE and ICE MCQs will be from the Committee (Each question is of worth **0.5** pts).

COMMITTEE V - ENERGY AND METABOLISM
I. WEEK / 26 – 29 Apr 2016

	Monday 25-Apr-2016	Tuesday 26-Apr-2016	Wednesday 27-Apr-2016	Thursday 28-Apr-2016	Friday 29-Apr-2016
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Lecture** ATP production by oxidative phosphorylation *İnci Özden*
10.00- 10.50	**Lecture** Abdominal Muscles & Abdominal Wall *Yüksel Aydar*		**Lecture** ATP production by oxidative phosphorylation *İnci Özden*	**Lecture** ATP production by oxidative phosphorylation *İnci Özden*	**Lecture** ATP production by oxidative phosphorylation *İnci Özden*
11.00- 11.50	**Lecture** Abdominal Muscles & Abdominal Wall *Yüksel Aydar*		**Lecture** ATP production by oxidative phosphorylation *İnci Özden*	**Lecture** ATP production by oxidative phosphorylation *İnci Özden*	**Independent Learning**
12.00- 12.50	**Lunch Break**		**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lecture** Folding and Angiogenesis *Alev Cumbul*	**Behavioral Science / Lecture** Culture and Illness *Instructors*	**Lecture** Probability *Çiğdem Kaspar*
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Organogenesis *Alev Cumbul*	**Behavioral Science / Lecture** Culture and Illness *Instructors*	**Lecture** Probability *Çiğdem Kaspar*
15.00- 15.50	**Lecture** Genome of Mithocondria *Turgay İsbir*		**Lecture** Genome of Mithocondria *Turgay İsbir*	**Lecture** Genome of Mithocondria *Turgay İsbir*	**Laboratory** Biostatistics *Çiğdem Kaspar*
16.00- 16.50	**Independent Learning**	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*	**Laboratory** Biostatistics *Çiğdem Kaspar* **Group A** / **Group B Independent Learning** / **Group C Independent Learning**	**ELECTIVE WEEK IX**	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
17.00-17.50					**Independent Learning**

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

COMMITTEE V - ENERGY AND METABOLISM
II. WEEK / 02 – 06 May 2016

<table>
<tr><th></th><th>Monday
02-May-2016</th><th>Tuesday
03-May-2016</th><th>Wednesday
04-May-2016</th><th>Thursday
05-May-2016</th><th>Friday
06-May-2016</th></tr>
<tr><td>09.00- 09.50</td><td>Independent Learning</td><td rowspan="2">Independent Learning</td><td>Independent Learning</td><td>Independent Learning</td><td>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td>Lecture
Lumbosacral plexus
Yüksel Aydar</td><td>Lecture
Transport through biological membranes
İnci Özden</td><td>SPRING FEST</td><td>SPRING FEST</td></tr>
<tr><td>11.00- 11.50</td><td>Lecture
Gluteal region
Yüksel Aydar</td><td>Laboratory
Lumbosacral Plexus & Gluteal Region
Yüksel Aydar
Group B Independent Learning | Group A</td><td>Lecture
Transport through biological membranes
İnci Özden</td><td>Independent Learning</td><td>Independent Learning</td></tr>
<tr><td>12.00- 12.50</td><td>Lunch Break</td><td>Group B | Group A Independent Learning</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>13.00- 13.50</td><td rowspan="2">Common Compulsory Course
Turkish Language & Literature
Bedri Selimhocaoğlu</td><td>Lunch Break</td><td>Lecture
Fetal Period
Alev Cumbul</td><td rowspan="3">Independent Learning</td><td rowspan="6">Independent Learning</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="2">Common Compulsory Course
Anatomical Drawing
Refik Aziz</td><td>Lecture
Extraembryoner Structures: Placenta, Chorion, Amnion
Alev Cumbul</td></tr>
<tr><td>15.00- 15.50</td><td rowspan="3">Independent Learning</td><td>Behavioral Science / Lecture
Human Sexuality
Instructors</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Common Compulsory Course
Ataturk's Principles & Hıstory Of Modern Turkey
Davut Ekşi</td><td>Behavioral Science / Lecture
Violence and Abuse
Instructors</td><td rowspan="2">ELECTIVE WEEK X</td></tr>
<tr><td>17.00-17.50</td><td>Independent Learning</td></tr>
</table>

COMMITTEE V - ENERGY AND METABOLISM
III. WEEK / 09 – 13 May 2016

	Monday 09-May-2016	Tuesday 10-May-2016	Wednesday 11-May-2016	Thursday 12-May-2016	Friday 13-May-2016
09.00- 09.50	**Lecture** Theoretical distributions *Çiğdem Kaspar*	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Lecture** Theoretical distributions *Çiğdem Kaspar*		**Lecture** Transport through biological membranes *İnci Özden*	**Lecture** Transport of monosaccharides through enterocytes *İnci Özden*	**Lecture** Theoretical distributions *Çiğdem Kaspar*
11.00- 11.50	**Lecture** Biology of Enery and Energy Balance *Turgay İsbir*		**Lecture** Transport through biological membranes *İnci Özden*	**Lecture** Glucose uptake by different types of tissues *İnci Özden*	**Lecture** Theoretical distributions *Çiğdem Kaspar*
12.00- 12.50	**Lunch Break**		**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Lecture** Thigh and Popliteal fossa *Kaan Yücel*	**Behavioral Science / Lecture** The Physician-Patient Relationship *Instructors*	**Assessment (DOPs)** Developing Human *Ünal Uslu & Alev Cumbul*
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Lecture** Thigh and Popliteal fossa *Kaan Yücel*	**Behavioral Science / Lecture** The Physician-Patient Relationship *Instructors*	**Group A** **Independent Learning** **Group B**
15.00- 15.50	**Lecture** Infertility and Contraception *Ünal Uslu*		**Laboratory** Thigh and Popliteal fossa *Kaan Yücel* **Group B** / **Group A Independent Learning**	**Lecture** Biology of Enery and Energy Balance *Turgay İsbir*	**Group A** **Group B Independent Learning**
16.00- 16.50	**Lecture** Twins and Partrution *Ünal Uslu*	**Common Compulsory Course** Ataturk's Principles & Hıstory Of Modern Turkey *Davut Ekşi*	**Group B Independent Learning** / **Group A**	**ELECTIVE WEEK XI**	
17.00-17.50	**Lecture** Thigh and Popliteal fossa *Kaan Yücel*		**Independent Learning**		**Independent Learning**

COMMITTEE V - ENERGY AND METABOLISM
IV. WEEK / 16 – 20 May 2016

	Monday 16-May-2016	Tuesday 17-May-2016	Wednesday 18-May-2016	Thursday 19-May-2016	Friday 20-May-2016
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**May 19** **Commemoration of Ataturk, Youth and Sports Day**	**Independent Learning**
10.00- 10.50	**Lecture** Enzymes involved in digestion of starch, lactose, sucrose *İnci Özden*	**Independent Learning**	**Lecture** Glycogenesis, glycogenolysis *İnci Özden*		**Lecture** Energy of aerobic and anaerobic *İnci Özden*
11.00- 11.50	**Lecture** Enzymes involved in digestion of starch, lactose, sucrose *İnci Özden*	**Laboratory** Leg *Yüksel Aydar* **Group B Independent Learning** / **Group A**	**Lecture** Regulation of glycogenesis, glycogenolysis *İnci Özden*		**Lecture** Shuttle systems related to energy production in glycolysis *İnci Özden*
12.00- 12.50	**Lunch Break**	**Group B** / **Group A Independent Learning**	**Lunch Break**		**Lunch Break**
13.00- 13.50	**Common Compulsory Course** Turkish Language & Literature *Bedri Selimhocaoğlu*	**Lunch Break**	**Behavioral Science / Lecture** Legal and Ethical Issues in Medicine *Instructors*		**Lecture** Biology of life span *Turgay İsbir*
14.00- 14.50		**Common Compulsory Course** Anatomical Drawing *Refik Aziz*	**Behavioral Science / Lecture** Legal and Ethical Issues in Medicine *Instructors*		**Lecture** Biology of life span *Turgay İsbir*
15.00- 15.50	**Lecture** Leg *Yüksel Aydar*		**Lecture** Diognostic Testing *Çiğdem Kaspar*		**Lecture** The description of epidemiology *Çiğdem Kaspar*
16.00- 16.50	**Lecture** Leg *Yüksel Aydar*	**Independent Learning**	**Lecture** Diognostic Testing *Çiğdem Kaspar*		**Lecture** Sampling in epidemiology *Çiğdem Kaspar*
17.00-17.50	**Independent Learning**		**Independent Learning**		**Independent Learning**

COMMITTEE V - ENERGY AND METABOLISM
V. WEEK / 23 – 27 May 2016

	Monday 23-May-2016	Tuesday 24-May-2016	Wednesday 25-May-2016	Thursday 26-May-2016	Friday 27-May-2016
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Lecture** Nerves and Vasculature of the Lower Limb *Kaan Yücel*	**Lecture** Neurological Examination- Lower Limb *Kaan Yücel*	**Independent Learning**
10.00- 10.50	**Lecture** Gluconeogenesis: enzymes of the pathway *İnci Özden*		**Lecture** Primary hemostasis *İnci Özden*	**Lecture** Anticoagulation *İnci Özden*	**Laboratory** Biochemistry *İnci Özden & Jale Çoban*
11.00- 11.50	**Lecture** Regulation of gluconeogenesis *İnci Özden*	**Laboratory** Foot *Yüksel Aydar* **Group B** / **Group A Independent Learning**	**Lecture** Secondary hemostasis *İnci Özden*	**Lecture** Fibrinolysis *İnci Özden*	**Group A** / **Group B Independent Learning** / **Group C Independent Learning**
12.00- 12.50	**Lunch Break**	**Group B Independent Learning** / **Group A**	**Lunch Break**	**Lunch Break**	**Lunch Break**
13.00- 13.50	**Lecture** Anatomy of the foot *Yüksel Aydar*	**Lunch Break**	**Lecture** Nerves and Vasculature of the Lower Limb *Kaan Yücel*	**Behavioral Science / Lecture** Introduction to Psychopathology *Instructors*	**Laboratory** Biochemistry *İnci Özden & Jale Çoban*
14.00- 14.50	**Lecture** Anatomy of the foot *Yüksel Aydar*	**Lecture** Glycolysis: Enzymes of the pathway *İnci Özden*	**Lecture** Clinical Anatomy of the Lower Limb *Kaan Yücel*	**Behavioral Science / Lecture** Introduction to Psychopathology *Instructors*	**Group A Independent Learning** / **Group B** / **Group C Independent Learning**
15.00- 15.50	**Independent Learning**	**Lecture** Regulation of glycolysis by enzymes *İnci Özden*	**Lecture** Teratology *Ünal Uslu*	**ELECTIVE WEEK XII**	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**
16.00- 16.50	**Laboratory** Biostatistics *Çiğdem Kaspar*	**Lecture** Asissted Reproductive Technology *Ünal Uslu*	**Lecture** Epidemiological research methods and calculation of the risk *Çiğdem Kaspar*		
17.00-17.50	**Group A Independent Learning** / **Group B Independent Learning** / **Group C**	**Independent Learning**		**Independent Learning**	**Independent Learning**

COMMITTEE V - ENERGY AND METABOLISM
VI. WEEK / 30 May– 03 June 2015

	Monday 30-May-2016	Tuesday 31-May-2016	Wednesday 01-June-2016	Thursday 02-June-2016	Friday 03-June-2016
09.00- 09.50	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**	**Independent Learning**
10.00- 10.50	**Discussions** **(Small Groups)** Owerview *Kaan Yücel*			**Assessment Session** Anatomy (Practical Exam)	**Assessment Session** **Committee V** (MCQ-EMQ)
11.00- 11.50	**Discussions** **(Small Groups)** Owerview *Kaan Yücel*				
12.00- 12.50	**Independent Learning**				
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	**ELECTIVE** **WEEK XIII**	**Independent Learning**	**Independent Learning**	**Assessment Session** Physiology (Practical Exam)	**Program Evaluation Session** Review of the Exam Questions, Evaluation of the Commitee V Program *Head of Commitee*
15.00- 15.50					
16.00- 16.50	**ELECTIVE** **WEEK XIV**			**Independent Learning**	
17.00-17.50					

STUDENT COUNSELING

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

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

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

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

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

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

The expectations from the student are as follows:

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

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

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

Contact

Faculty Secretary :
Tel: +90 216 578 05 93

Dean Secretary:
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Fax: +90 216 578 05 75

Student Affairs :
Tel: 0216 578 06 86

Documents Affairs:
Tel: 0216 578 05 23

Coordinator/ Co-coordinator:
Soner Doğan PhD, Assoc. Prof. (Coordinator) 216 578 00 00

Elif Vatanoğlu Lutz MD, PhD, Assoc. Prof (Co-coordinator) 216 578 00 00

Serdar Özdemir MD,PhD, Assist. Prof. (Co-coordinator) 216 578 00 00

Bilge Güvenç TunaPhD, Assist. Prof. (Co-coordinator) 216 578 00 00 (1568) / dyat@yeditepe.edu.tr

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A.Arzu Akalın MD, Assist. Prof. (ICP Co-coordinator) 216 578 00 00 (1525) /arzu.akalin@yeditepe.edu.tr

Address:

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