YEDİTEPE UNIVERSITY
FACULTY of MEDICINE

PHASE II

ACADEMIC PROGRAM BOOK
2014 – 2015

Student's;

Name :……
Nr :……

YEDİTEPE UNIVERSITY

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YEDİTEPE UNIVERSITY FACULTY OF MEDICINE

AIM and OUTCOMES OF MEDICAL EDUCATION PROGRAM*,**

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

AIM

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

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

OUTCOMES

Graduate should be able to:

1) *practice* as a physician,

- **oriented towards**
  - **individual and non-individual factors affecting health**
  - **sustainment and improvement of healthy condition**
  - **clinical conditions which**
    - **are frequent in community**

    and/or
    - **pose high risk for individual or community health**

    and/or
    - **life-threatening or constitute an emergency**

- **at a competency level appropriate to deliver primary health care services compatible with surrounding context of health determinants.**

1.1 ***explain*** normal structural components of human body, their functions and operational mechanisms at organismal, multisystem, system, organ, tissue, cellular and molecular levels.

1.2 ***explain*** healthy condition and factors affecting health.

1.3 ***explain*** and ***relates*** causes of clinical conditions, courses of effect and outcomes.

1.4 ***explain*** changes (*i.e. physiological and pathological*) in structural components of body, their functions and operational mechanisms under healthy and clinical conditions.

1.5 ***explain*** most frequently occurring or most important clinical complaints (*i.e. chief complaint*), symptoms, signs, laboratory and imaging findings and their emergence mechanisms in clinical conditions.

1.6 ***explain*** current medical and surgical methods used in interventions directed towards health conditions.

1.7 ***use*** contextually appropriate medical history taking method, out of different types (*e.g. comprehensive, focused or hypothetico-deductive*) and systematically, to gather medical information from healthy individual, patient or patient's companions (*i.e. heteroanamnesis*), in case of an encounter with a healthy person or a patient who seeks health care service for a health condition.

1.8 ***employ*** physical examination methods for systems in case of an encounter with a healthy person or a patient who seeks health care service for a health condition.

1.9 accurately ***interpret*** findings in medical history and physical examination, in case of an encounter with a healthy person or a patient who seeks health care service for a health condition.

1.10 ***implement*** diagnostic procedures (*e.g. point of care testing, physician office testing*) required for primary health care, in case of an encounter with a healthy person or a patient who seeks health care service for a health condition.

1.11 ***select*** (***utilize***) tests shown to be highly effective in clinical decision making by evidence-based medicine from the aspects of reliability, practicality and outcome measures, in case of an encounter with a healthy person or a patient who seeks health care service for a health condition, and ***interpret*** results.

1.12 ***make*** clinical decisions (*e.g. benefit estimation, risk estimation, prevention, screening, test requisition, diagnosis, triage, staging, consultation, prognosis, watchful-waiting, intervention, monitoring, end of intervention, discharge, control, end of follow-up*) shown to be highly effective from the aspects of outcome measures by evidence-based medicine, in case of an encounter with a healthy person or a patient who seeks health care service for a health condition.

1.13 accurately ***perform*** interventional procedures (*i.e. interventional clinical skills, competencies and proficiencies*) required for primary health care, in case of an encounter with a healthy person or a patient who seeks health care service for a clinical condition.

1.14 ***coordinate*** referral or transport of patient, when necessary and with patient-centered approach, to secondary health care institution, without posing any risk to patient's health, security and confidentiality, in case of an encounter with a patient who seeks health care service for a clinical condition.

1.15 ***manage*** request or symptom, healthy or clinical condition, and healthy individual or patient, with beneficiary-centered approach, and with clinical decisions made by analytical and critical thinking, clinical reasoning and problem solving methods, in case of an encounter with a patient who seeks health care service for a health condition.

1.16 ***execute*** protective and therapeutic medical practices that are individual, family and community-oriented, easily accessible, integrated and coordinated, continuous, comprehensive, and based on the principles of confidentiality, in primary health care services.

1.17 ***identify*** factors that pose a high risk to individual and community health, and ***determine*** individuals or populations at risk in advance or at an early stage and implement the necessary measures.

1.18 ***value*** preventive health services, ***offer*** primary prevention (*i.e. prevention of diseases for the protection of health*), secondary prevention (*i.e. early diagnosis and treatment*) and tertiary prevention (*i.e. rehabilitation*) services, and ***provide*** consultancy on these issues.

1.19 ***provide*** life-style consultancy and design services to sustain and improve individual and community health.

2) *manage* primary health care services.

2.1 ***manage*** health care team in primary health care organization.

2.2. ***lead*** community with sense of responsibility, good behavior and manners in consideration of individual behaviors and social dynamics of community, and if there is a necessity, ***develop*** projects directed towards health care services.

2.3 ***define*** health management and economics principles, models for organization and finance of health care services.

2.4 ***use*** health care resources with cost-effective manners.

3) *advocate* individual and community health under all circumstances.

3.1. ***provide*** consultancy services to sustain and promote the health of individual and community.

3.2. ***explain*** epidemiology of clinical conditions, and ***define*** measures to reduce frequencies.

3.3. ***describe*** completely all high risk factors for the community health (*e.g. natural disasters, nuclear accidents, fire, war, bio-terrorism, etc.*), and ***implement*** necessary measures in order to prevent effects on health.

3.4. ***explain*** health determinants completely (*e.g. physical environment, social environment, genetic background, individual response -behavior, biology-, health care services, welfare, etc.*), including conditions that prevent access to health care.

4) *perform* medical practices according to regulatory and ethical principles and in consideration of behavioral sciences, social sciences, and humanities.

4.1 ***recognize*** determinants affecting individual behaviors and attitudes, and social dynamics.

4.2 ***recognize*** basic ethical principles completely, and ***distinguish*** ethical and legal problems.

4.3 ***recognize*** regulations concerning national and international health systems.

4.4 ***employ*** safety, security and confidentiality principles completely for beneficiaries of health care services, companions and visitors, and health care workers.

4.5 ***use*** medical record and information systems according to regulations and ethical principles.

4.6 ***value*** informed consent taking in the framework of patients' rights, and ***employ*** fully.

4.7 ***interpret*** historical, anthropological and philosophical evolution of medicine, health and disease concepts, and ***relate*** to current medical practice

5) *establish* correct and effective communication with all stakeholders of health care services and collaborate.

5.1. ***communicate*** by using problem solving abilities during all of professional life with health care beneficiaries, co-workers, accompanying persons, visitors, patient's relatives, care givers, colleagues, other individuals and organizations.

5.2. ***collaborate*** with related organizations and institutions, with other professionals and health care workers as a team member through using problem solving abilities.

5.3. ***communicate*** with all stakeholders with consideration of socio-cultural differences.

6) *promote* self medical knowledge and skills in view of the current scientific developments throughout own career.

6.1. ***adopt*** and ***implement*** the importance of lifelong self-learning.

6.2. ***recognize*** importance of updating knowledge and skills; ***search*** current advancements and improve own knowledge and skills.

6.3. ***speak*** at least one foreign language at advanced level to follow the international literature and communicate with colleagues.

6.4. ***recognize*** methods to reach current scientific knowledge, and ***use*** available technology.

6.5. ***recognize*** principles of evidence-based medicine, and ***implement*** in health care services.

6.6. ***develop*** and ***present*** research projects.

7) *manage* own postgraduate career.

7.1. ***recognize*** and ***investigate*** postgraduate work domains and job opportunities.

7.2. ***determine*** postgraduate work domains, job opportunities and requirements for application, ***distinguish*** and ***plan*** requirements for further training and work experience.

7.3. ***prepare*** a resume, and **recognize** job interview methods.

7.4***. recognize*** health technologies expected to be implemented in near future and emerging work areas.

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PHASE II COORDINATION COMMITTEE
(TEACHING YEAR 2014 – 2015)

Ece GENÇ, PhD Prof. (Coordinator)
Alev CUMBUL, PhD Assist. Prof. (Co-Coordinator)
Burcu ŞEKER, PhD Assist. Prof. (Co-Coordinator)
Soner DOĞAN, PhD Assist. Prof. (Co-Coordinator)

ICP-II COORDINATION COMMITTEE

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

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DESCRIPTION OF THE PHASE II

Normal structure and function at system and multi-system level, introduction to pathology.

PHASE CONTENT

Cardiovascular System, Respiratory System, Gastrointestinal System, Endocrine and Urogenital System, Nervous System, Tissue Damage and Neoplasia, Introduction to Clinical Practice- II (ICP- II), Scientific Projects-II.

EXECUTIVES of ACADEMIC YEAR

Anatomy, Physiology, Biochemistry, Histology & Embryology, Microbiology, Immunology, Biophysics, Medical Biology, Pathology, Pharmacology, Biostatistics, Family Medicine, Medical Education.

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AIM and LEARNING OBJECTIVES of PHASE II

AIM OF PHASE II

1. **To convey** knowledge on biophysical, biological, anatomical, embryological, histological, physiological, biochemical, microbiological and immunological conditions of systems,
2. **To convey** introductory information on tissue damage and neoplasis related to systems,
3. **To convey** basic knowledge at the introductory level for clinics**,**
4. **To equip with** basic clinical skills (interventional or non-interventional) required for the practice of medical profession,
5. **To equip with** skills for scientific project preparation**.**

LEARNING OBJECTIVES OF PHASE II

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

KNOWLEDGE

1.0. explain basic medical knowledge for cardiovascular system, respiratory system, circulation, hemodynamics, urogenital system, gastrointestinal system, nervous system, endocrine system, immune system and immunologic response, biostatistics subjects.
2.0. explain the operational principles, interactions and relation of the systems in the body.
3.0. of clinical conditions;
3.1. explain mechanisms of damages formed at molecular, cell, tissue, organ, system and multi-system level,
3.2. describe the structural changes caused,
3.3. list developmental progress in time.
4.0. Among factors that pose risk to individual and community health;
4.1. list biological agents,
4.2. explain their mechanisms of action and outcomes.
5.0. explain basic principles of evidence-based medicine applications.
6.0. describe writing, reporting, presentation and submission to publication phases of a research project.

SKILLS

7.0. apply basic interventional and non-interventional processes for taking individual preventive measures, drug application and diagnosis or treatment.

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INTRODUCTION TO CLINICAL PRACTICE - II (MD 242)

ICP- II Modules

Hand Washing and Wearing Sterile Gloves

Measuring Vital Signs

Nasogastric Catheterization

Bladder Catheterization

Intramuscular, Intradermal and Subcutaneous Injections

AIM and LEARNING OBJECTIVES of INTRODUCTION to CLINICAL PRACTICE- II

AIM

1. **To convey** hygienic skills (hand washing, sterile glove wearing) in working environment**,**
2. **To convey** measurement skills for basic vital findings**,**
3. **To equip with** basic interventional skills (nasogastric tube and urinary catheter application; intramuscular, intradermal and subcutaneous injection)**.**

LEARNING OBJECTIVES

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

KNOWLEDGE

1. **describe** the techniques of hand washing and sterile glove wearing in accordance with the skill procedure**.**
2. **describe** measurement of blood pressure with sphygmomanometer in adults in accordance with the skill procedure**.**
3. **count** nasogastric probe types, application indications, contraindications and the steps in application procedure**.**
4. **count** urinary catheter types, application indications, contraindications and the steps in application**.**
5. **count** application indications, contraindications and the steps in application procedure of intramuscular, intradermal and subcutaneous injections**.**

SKILLS

1. **apply** hand washing and sterile glove wearing skill completely in accordance with the skill procedure**.**
2. **measure** blood pressure by adult sphygmomanometer completely in accordance with the skill procedure**.**
3. **perform** nasogastric probe application on an adult model in accordance with the skill procedure**.**
4. **perform** urinary catheter application in an adult woman and male model in accordance with the skill procedure**.**
5. **perform** intramuscular, intradermal and subcutaneous injection applications in an adult model in accordance with the skill procedure**.**
6. **describe** the process to be carried out to the patient before any intervention**.**

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ACADEMIC CALENDAR 2014 – 2015

Basic Medical Sciences II

COMMITTEE I	**CARDIOVASCULAR and RESPIRATORY SYSTEMS (9 Weeks)**
Beginning of Committee	: September 8, 2014 Monday
End of Committee	: November 7, 2014 Friday
Committee Exam	: November 13-14, 2014 (Theoretical and Practical Exams)
Coordination Committee Meeting	**: September 29, 2014 Monday**
COMMITTEE II	**GASTROINTESTINAL SYSTEM (6 Weeks)**
Beginning of Committee	: November 17, 2014 Monday
End of Committee	: December 19, 2014 Friday
Committee Exam	: December 25-26 (Theoretical and Practical Exams)
New Year	**: January 1, 2015 Thursday**
Coordination Committee Meeting	**: January 5, 2015 Monday**
COMMITTEE III	**ENDOCRINE and UROGENITAL SYSTEMS (6 Weeks)**
Beginning of Committee	: December 29, 2014 Monday
End of Committee	: February 13, 2015 Friday
Committee Exam	: February 19-20, 2015 (Theoretical and Practical Exams)
MIDTERM BREAK	**: 19 JANUARY – 1 FEBRUARY, 2015**
COMMITTEE IV	**NERVOUS SYSTEM (7 Weeks)**
Beginning of Committee	: February 23, 2015 Monday
End of Committee	: April 3, 2015 Friday
Committee Exam	: April 9-10, 2015 (Theoretical and Practical Exams)
Physicians' Day	**: March 14, 2014, Saturday**
COMMITTEE V	**TISSUE DAMAGE and NEOPLASM (7 Weeks)**
Beginning of Committee	: April 13, 2015 Monday
End of Committee	: May 22, 2015 Friday
Committee Exam	: May 29, 2015 (Theoretical Exam)

National Holiday	**: April 23, 2015 Thursday**
Coordination Committee Meeting	**: April 27, 2015 Monday**
Labor's Day	**: May 1, 2015 Friday**
National Holiday	**: May 19, 2015 Tuesday**
Coordination Committee Meeting	**: July 1, 2015 Wednesday**
Make-up Exam	**:** June 4-5, 2015 Thursday, Friday
Final Exam	**:** June 22, 2015 Monday
Incomplete Exam	**:** July 23, 2015 Thursday

ICP II

Midterm Exam	**:** January 9, 2015 Friday
Make-up Exam	**:** June 8-9, 2015 Monday, Tuesday
Final Exam	**:** June 23-24, 2015 Tuesday, Wednesday
Incomplete Exam	**:** July 15, 2015 Wednesday

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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

LIST OF STUDENT COUNSELING
PHASE II

NAME	SURNAME	STUDENT COUNSELOR
MUSTAPHA	ABU RACHED	DOÇ. DR. ÜNAL USLU
YASHAR	ADİBNİA	DOÇ. DR. ÜNAL USLU
ALİ ERDİ	AFACAN	DOÇ. DR. ÜNAL USLU
SEDA	AKKIZ	YRD. DOÇ. DR. DENİZ KIRAÇ
YİĞİT	AKSOY	YRD. DOÇ. DR. DENİZ KIRAÇ
SENA	AKYILDIZ	YRD. DOÇ. DR. DENİZ KIRAÇ
DAMLA	ALTUNOK	YRD. DOÇ. DR. ÇİĞDEM KASPAR
CEMRE	ARDIÇ	YRD. DOÇ. DR. ÇİĞDEM KASPAR
DOĞUKAN	ARSLAN	PROF. DR. BAYRAM YILMAZ
ALARA	ATAACAR	PROF. DR. BAYRAM YILMAZ
ABDULLAHI	BASHI ABSHIR	YRD. DOÇ. DR. KAAN YÜCEL
GALİP EKİN	BENLİ	PROF DR GÜLDEN ÇELİK
DENİZ OZAN	BENLİ	PROF DR GÜLDEN ÇELİK
BEYZA	BÜYÜKÖREN	YRD. DOÇ. DR. AKİF MAHARRAMOV
BORA	ÇAĞAN	YRD. DOÇ. DR. AKİF MAHARRAMOV
CANER	ÇECE	YRD. DOÇ. DR. AKİF MAHARRAMOV
BEHİÇ	ÇELİK	PROF DR GÜLDEN ÇELİK
SEÇKİN	ÇELİK	PROF. DR. TURGAY İSBİR
ÖZGÜL GİZEM	DİKENCİK	PROF. DR. TURGAY İSBİR
LUDWIG ALBERT	EBERT	PROF. DR. TURGAY İSBİR
MELİS	ERDAL	YRD. DOÇ. DR. ELİF VATANOĞLU
MELİKE SABA	ERDİNÇ	YRD. DOÇ. DR. ELİF VATANOĞLU
MERVE	ERİŞ	YRD. DOÇ. DR. ELİF VATANOĞLU
İZGİ AYÇIL	GENCAN	DOÇ. DR. YEŞİM GÜROL
NAZ	GÜÇLÜ	DOÇ. DR. YEŞİM GÜROL
DİLARA	GÜLŞAN	DOÇ. DR. YEŞİM GÜROL
GİZEM	GÜNGÖR	DOÇ. DR. YEŞİM GÜROL
AYSAN	HAMİDİ	DOÇ. DR. ÇAĞATAY ACUNER
METEHAN	HERGÜNER	DOÇ. DR. ÇAĞATAY ACUNER
MÜNİRE NAZLI	HÖBEK	DOÇ. DR. ÇAĞATAY ACUNER
ELİF RABİA	İÇÖZ	DOÇ. DR. ÇAĞATAY ACUNER
ALPERCAN	İLKER	YRD. DOÇ. DR. BURCU ŞEKER
ECE	İLTÜMÜR	YRD. DOÇ. DR. BURCU ŞEKER
AYDIN	İŞLETME	YRD. DOÇ. DR. BURCU ŞEKER
ECEM	KAHRAMAN	YRD. DOÇ. DR. ALEV CUMBUL
GİZEM NAZ	KAHRAMAN	YRD. DOÇ. DR. ALEV CUMBUL
MÜGE	KALAYCIOĞLU	YRD. DOÇ. DR. ALEV CUMBUL
NESİBE GÖKÇE	KALYONCU	YRD. DOÇ. DR. ALEV CUMBUL
FATMA CANAN	KARABAŞ	DOÇ. DR. ÖZLEM TANRIÖVER
İREM BUSE	KARAKUM	DOÇ. DR. ÖZLEM TANRIÖVER
DEFNE CANSU	KARAMANLI	DOÇ. DR. ÖZLEM TANRIÖVER
ÇAĞDAŞ ROBİN	KIRAN	DOÇ. DR. HÜLYA AKAN
İREM NUR	KİRAZ	DOÇ. DR. HÜLYA AKAN
UMUT	KOÇ	DOÇ. DR. HÜLYA AKAN

ZEYNEP	KÖKSAL	DOÇ. DR. HÜLYA AKAN
BİLGE	KÖYLÜ	PROF. DR. İNCİ ÖZDEN
DOĞA	KURUOĞLU	PROF. DR. İNCİ ÖZDEN
ETKİN BENGİSU	KUTSAL	PROF. DR. İNCİ ÖZDEN
JOSEPF FURKAN	KÜÇÜKTAŞ	DOÇ. DR. JALE ÇOBAN
ABDISAMAD	M. ISSACK	DOÇ. DR. JALE ÇOBAN
DİLARA	MEDET	DOÇ. DR. JALE ÇOBAN
FATMA SARAAD	MOHAMUD	YRD. DOÇ. DR. ARZU AKALIN
TANSU ŞUA	ÖKTEM	YRD. DOÇ. DR. ARZU AKALIN
MELİS	ÖZGER	YRD. DOÇ. DR. ARZU AKALIN
HELİN DİCLE	ÖZBEK	YRD. DOÇ. DR. ARZU AKALIN
OĞUZ GÖKBERK	ÖZHAN	PROF. DR. ECE GENÇ
BURHAN OSMAN	ÖZTÜRK	PROF. DR. ECE GENÇ
HAZAL	SAĞKOL	PROF. DR. ECE GENÇ
KONURALP	SAĞLAM	DOÇ. DR. FERDA KALEAGASIOĞLU
MUSTAFA	SELİMOĞLU	DOÇ. DR. FERDA KALEAĞASIOĞLU
OĞUZCAN	SERNİKLİ	DOÇ. DR. FERDA KALEAĞASIOĞLU
MEHMET İLHAN	SESİGÜZEL	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
MUHAMMET SAİT	SEVİNDİK	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
IRMAK	SINAL	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
LEVENT AKMAN	SOLİM	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
UFUK	ŞANKO	PROF. DR. FERDA ÖZKAN
MÜMİN BERKAY	ŞEN	PROF. DR. FERDA ÖZKAN
EGEMEN	TAVRAK	PROF. DR. FERDA ÖZKAN
ZEYNEP BİRKE	TOKSÖZ	DOÇ. DR. IŞIN DOĞAN EKİCİ
MİRAÇ BERFU	TOKUÇ	DOÇ. DR. IŞIN DOĞAN EKİCİ
ECE	TOPRAKÇI	DOÇ. DR. IŞIN DOĞAN EKİCİ
ZEHRA	TORUN	DOÇ. DR. IŞIN DOĞAN EKİCİ
ASUDE	TURA	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
TALAT TAYGUN	TURAN	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
AYKUT	UÇAR	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
ÖYKÜ	UMUT	DOÇ. DR. GÜLDEREN YANIKKAYA DEMİREL
EZGİ	URTEKİN	YRD. DOÇ. DR. SONER DOĞAN
GÖKALP ARİF	UTKUGÜN	YRD. DOÇ. DR. SONER DOĞAN
SEZİN	ÜNVER	YRD. DOÇ. DR. SONER DOĞAN
YELİZ	YANIKOĞLU	YRD. DOÇ. DR. SONER DOĞAN
İREM	YAPAR	YRD. DOÇ. DR. DENİZ KIRAÇ
YAĞMUR	YAVUZ	YRD. DOÇ. DR. ÇİĞDEM KASPAR
MEHMET YAĞIZ	YENİGÜN	YRD. DOÇ. DR. ÇİĞDEM KASPAR
EZGİ	YILDIZ	YRD. DOÇ. DR. KAAN YÜCEL
BÜŞRA	YILDIZ	YRD. DOÇ. DR. BURCU ŞEKER
İLKİM ECE	YILDIZ	YRD. DOÇ. DR. ÜNAL USLU
ŞERİFE DİLARA	YOZGATLI	DOÇ. DR. JALE ÇOBAN
BÜŞRA	ZENGİN	PROF. DR. İNCİ ÖZDEN

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ASSESSMENTS

Assessments table will be made with consideration of each learning objective for each committee and will be announced and explained in introductory lectures at the beginning of each committee.

EXAMINATION MATRIX

For Basic Medical Sciences II

Committee Exams : WE + OSPE

Written Exam:
Number of Questions : 100 - 200
Question Type : 10% Extended Matching Questions*
about 80% MCQ and 10% laboratory exam scores
Final Exam : WE
Number of Questions :100 - 200
Question Type : 96% MCQ and 4% Evaluation of Scientific Projects Reports

The mean of committee examinations and the final examination will form 60% and 40% of the end of the year grade, respectively.

Incomplete Exam : WE
Number of Questions : 100 - 200
Question Type : 96% MCQ, and 4% Scientific Projects Reports

MCQ: Multiple Choice Questions
EMQ: Extended Matching Questions
OSPE: Objective Structured Practical Exam
WE: Written Examination (WE)

***Percentage that will be reflected in total points of written exam does not comply with the exact number of questions.**

For ICP- II
During the Fall semester ICP- II consists of "Basic Invasive Procedures- I" both theoretically and practically using simulators. Midterm exam will be MCQ style. In the Spring semester ICP- II consists of "Basic Invasive Procedures- II" both theoretically and mainly practically using simulators. The Final examination will be Objective Structured Clinical Exam (OSCE) measuring the skills to perform Basic Invasive Procedures.
The Midterm exam will be MCQ style affecting the 40% of the end of the year grade.
The Final exam will be OSCE affecting the 60% of the end of the year grade.

SCIENTIFIC PROJECTS - II

The purpose of Scientific Projects class is to teach the medical students how to write and run a scientific project. Throughout the year, each Phase Two student is expected to prepare a scientific project proposal. Students are free to choose their research area and advisor for their prospective research project. Students who wish to apply for a "TUBITAK 2209-A National Grant Program for University Students" has to send in their proposals before February 2015, the rest should hand in their proposals before the end of March. All projects will be presented as posters at Scientific Day of Yeditepe School of Medicine, during May, 2015. Scientific Projects have four points contribution to final exam results, evaluation scale for projects is as follows:

CRITERIA	**EVALUATION POINTS**				
	Very Good	Good	Acceptable	Weak	Bad
Is the question/ problem presented clearly?	**0.5**	**0.4**	**0.3**	**0.2**	**0.1**
Creativity/originality of the Project	**0.5**	**0.4**	**0.3**	**0.2**	**0.1**
Is set up of the Project suitable to obtain aims?	**0.5**	**0.4**	**0.3**	**0.2**	**0.1**
Presentation of aims in an easy to understand format	**0.5**	**0.4**	**0.3**	**0.2**	**0.1**
Review of project proposal in light of literature	**0.5**	**0.4**	**0.3**	**0.2**	**0.1**
Proposal presentation in correct format	**0.5**	**0.4**	**0.3**	**0.2**	**0.1**
Does proposal explain the project's significance and contributions well?	**0.5**	**0.4**	**0.3**	**0.2**	**0.1**
Project calendar presentation	**0.5**	**0.4**	**0.3**	**0.2**	**0.1**
TOTAL POINTS	**4.0**				

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

CARDIOVASCULAR and RESPIRATORY SYSTEMS
COMMITTEE I
DISTRIBUTION of LECTURE HOURS
September 8 - November 7, 2014
COMMITTEE DURATION: 9 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MD 220	**BASIC MEDICAL SCIENCES II**	**194**	**39**	**233**
	DISCIPLINE			
	ANATOMY	35	2Grx11H	46
	BIOCHEMISTRY	17	2Grx4H	21
	BIOPHYSICS	15	0	15
	BIOSTATISTICS	10	3Grx2H	12
	HISTOLOGY & EMBRYOLOGY	23	2Grx5H	28
	IMMUNOLOGY	25	0	25
	MEDICAL BIOLOGY	4	0	4
	PATHOLOGY	16	2H	18
	PHYSIOLOGY	47	3Grx15H	62
	SCIENTIFIC PROJECTS-II	2	0	2

MD 242	**INTRODUCTION TO CLINICAL PRACTICE- II**	8	16	24

I. Coordination Committee	Head	Bayram Yılmaz, PhD Prof.
	Secretary	Alev Cumbul, PhD Assist. Prof.
	Member	Çiğdem Kaspar, PhD Assist. Prof.
	Member	Soner Doğan, PhD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE I
CARDIOVASCULAR and RESPIRATORY SYSTEMS

LECTURERS

BASIC MEDICAL SCIENCES II	
DISCIPLINE	**FACULTY**
ANATOMY	Ioannis SIATITSAS, MD PhD Prof. Yüksel AYDAR, PhD Prof. Kaan YÜCEL, MD PhD Assist. Prof. LAB: Sinem GERGİN, MD
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof.
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assist. Prof.
BIOSTATISTICS	Çiğdem KASPAR, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc.. Prof. Alev CUMBUL, PhD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD PhD Assoc. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof.
PATHOLOGY	Ferda ÖZKAN, MD Assoc. Prof. Işın DOĞAN EKİCİ, MD Assoc. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR KOÇAK, MD PhD Assist Prof. Burcu ŞEKER, PhD Assist. Prof.
SCIENTIFIC PROJECTS	Gülderen YANIKKAYA DEMİREL, MD PhD Assoc. Prof.
INTRODUCTION TO CLINICAL PRACTICE- II	Güldal İZBIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assoc. Prof. A. Arzu AKALIN, MD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE I
CARDIOVASCULAR and RESPIRATORY SYSTEMS

AIM and LEARNING OBJECTIVES

AIM

1. To convey knowledge about biophysical, biological, anatomical, embryological, histological, physiological and biochemical properties of cardiovascular and respiratory systems,
2. To convey knowledge on hemodynamics of cardiovascular system,
3. To convey information about electrical activity of heart and functional activity of lungs by defining all basic parameters,
4. To convey information about head-neck anatomy,
5. To convey basic, general knowledge about immunology,
6. To convey basic knowledge about biostatistics.

LEARNING OBJECTIVES

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

1.0. For cardiovascular and respiratory systems;
  1.1. explain biophysical changes,
  1.2. associate with the clinical reflections.
2.0. For cardiovascular system;
  2.1. explain biological characteristics of the system,
  2.2. associate with the clinical reflections.
3.0. For nose, paranasal sinus, heart, lung, pharynx, larynx;
  3.1. describe their anatomy,
  3.2. associate with adjacent tissues and organs,
  3.3. explain their functional and clinical reflections.
4.0. For nervous, vascular structures and the cavities surrounding these structures in head-neck anatomy;
  4.1. describe these structures,
  4.2. associate with their clinical reflections.
5.0. For thorax and diaphragm; including breasts
  5.1. describe their anatomy,
  5.2. associate with adjacent tissue and organs,
  5.3. explain their functional and clinical reflections.
6.0. For cardiovascular and respiratory system;
  6.1. explain developmental stages,
  6.2. list embryological origins of organs,
  6.3. associate the relation between major birth abnormalities and developmental process.
7.0. list lymphatic organs of cardiovascular system and histological properties of blood.
8.0. explain hemodynamics of cardiovascular system and electrical activity of heart by biophysical mechanisms.
9.0. describe the structure, functions, synthesis and degradation of hemoglobin.
10.0. describe erythrocyte-specific metabolisms.
11.0. describe formation, differentiation and functions of blood cells.
12.0. describe physiopathology of diseases, such as anemia, leukemia, hemophilia.

13.0. describe heart rhythm, cardiac output and cardiac cycle.
14.0. explain functions of pulmonary system.
15.0. explain mechanisms of oxygen and carbon dioxide exchange and transportation.
16.0. associate the relation between muscle contractions with the structures affecting contraction.
17.0. describe nervous (autonomous) control of cardiovascular and pulmonary systems.
18.0. describe dynamics of microcirculation together with general and pulmonary circulation.
19.0. describe measurements of hematocrit and blood pressure; blood group analysis; ECG and spirometry methods.
20.0. For immune system;
    20.1. explain development and differentiation of immune cells,
    20.2. relate changes with diseases,
    20.3. describe the properties of immune response.
21.0. For hemodynamic changes;
    21.1. explain mechanisms of development,
    21.2. describe mechanisms for cellular damage,
    21.3. describe pathologies occurring due to cell and tissue damage.
22.0. list disorders resulting from hemodynamic changes.
23.0. For endogenous and exogenous harmful agents;
    23.1. describe their mechanisms of cell and tissue damage,
    23.2. describe adaptation process of cells.
24.0. list pathologies resulting from endogenous and exogenous harmful agents and consequently emerging diseases.
25.0. count biostatistical sampling methods.
26.0. count significance tests in biostatistics.
27.0. choose significance tests according to the properties of biostatistical data.
28.0. prepare a research project draft.
29.0. explain hematocrit and blood pressure measurements; blood type analysis; ECG and spirometry methods.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

CARDIOVASCULAR and RESPIRATORY SYSTEMS COMMITTEE I

COMMITTEE EXAM ASSESSMENT TABLE

LEARNING OBJECTIVES	FACULTY DEPARTMENT	LECTURER / INSTRUCTOR	NUMBER OF QUESTIONS MCQ*			
			CE	FE	IE	TOTAL
3.0-5.0	ANATOMY	Dr. I. Siatitsas Dr. Y. Aydar Dr. K. Yücel	15	9	5	29
9.0-11.0, 15.0-16.0, 29.0	BIOCHEMISTRY	Dr. İ. Özden	6	5	3	14
1.0, 8.0	BIOPHYSICS	Dr. A. Maharramov	4	4	2	10
25-28	BIOSTATISTICS	Dr. Ç. Kaspar	-	3	2	5
6.0,7.0	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu Dr. A. Cumbul	6 4	5 2	2 1	13 7
20	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	10	7	3	20
21	MEDICAL BIOLOGY	Dr. T. İsbir	1	1	0	2
21-24	PATHOLOGY	Dr. F. Özkan Dr. I. D. Ekici	3 2	3 2	1 1	7 5
1.0,2.0,11.0-14.0, 17.0-19.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Koçak Dr. B. Şeker	24	16	8	48
28	SCIENTIFIC PROJECTS	Dr. G. Yanıkkaya Demirel	-	-	-	-
	TOTAL		75	57#	28##	160
LEARNING OBJECTIVES	FACULTY DEPARTMENT	LECTURER / INSTRUCTOR	POINT OF QUESTIONS EMQ**, OSPE***, WE****			
			EMQ	OSPE	WE	TOTAL (pts)
3.0-5.0	ANATOMY	Dr. I. Siatitsas Dr. Y. Aydar Dr. K. YücelL	2	3	-	5
9.0-11.0, 15.0-16.0, 29.0	BIOCHEMISTRY	Dr.İ. Özden	2	0.5	-	2.5
6.0,7.0	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu	2	1.5	-	3.5
20	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	2	-	-	2
21-24	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Koçak Dr. B. Şeker	2	5	-	7
25-28	BIOSTATISTICS	Dr. Ç. Kaspar	-	-	5	5

COMMITTEE ASSESSMENT TABLE DESCRIPTION

Total number of multiple choice questions is 75, equal to 75 pts,
Each multiple choise question has a value equal to 1 pt,
Objective structured practical exams have value equal to 10 pts.
Written exam of Biostatistics has equal value 5 pts.
MCQ*: Multiple Choice Question
EMQ**: Extending Matching Question
OSPE***: Objective Structured Practical Exam
WE****: Writing Exam
CE: Committee Exam
FE: Final Exam

57 out of 192 final exam questions will be from Committee I; 4 pts will be added from the scientific project report to the final grade, completing the points to 100. (Each Final Exam Question is worth 0.5 pts)
28 out of 96 incomplete exam questions will be from Committee I; 4 pts will be added from the scientific project report to the final grade, completing the points to 100. (Each Incomplete Exam Question is worth 1 pt)

PHASE II I. WEEK DAY	HOUR	CARDIOVASCULAR and RESPIRATORY SYSTEMS SUBJECT	COMMITTEE I LECTURER
8-Sep-2014	09.00-09.50	Introduction to Committee I	
MONDAY	10.00-10.50	Functions of Blood	B. Yılmaz
	11.00-11.50	Erythrocytes	B. Yılmaz
	12.00-12.50	Erythrocytes	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Histology of Blood; RBC and Platelets	Ü. Uslu
	15.00-15.50	Histology of Blood; WBC and Blood Smear	Ü. Uslu
	16.00-16.50	Major vessels of the body	I. Siatitsas
	17.00-17.50	Independent Study Hours	
9-Sep-2014	09.00-09.50	Leukocytes	B. Yılmaz
TUESDAY	10.00-10.50	Leukocytes	B. Yılmaz
	11.00-11.50	Lymphocytes and the Immune System	B. Yılmaz
	12.00-12.50		
	13.00-13.50	Porphin, Porphyrins, Heme, Hemoglobin	İ. Özden
	14.00-14.50	Structure of Hemoglobin	İ. Özden
	15.00-15.50	**LAB:** Hematocrit Determination **Gr A**	PHYSIOLOGY
	16.00-16.50	**LAB:** Hematocrit Determination **Gr A** / Biochem. **Gr C**	PHYSIO./ BIOCHEM.
	17.00-17.50	**LAB:** Biochemistry **Gr C**	BIOCHEMISTRY
10-Sep-2014	09.00-09.50	Thoracic Wall	Y. Aydar
WEDNESDAY	10.00-10.50	Thoracic Cavity	Y. Aydar
	11.00-11.50	Hemopoiesis	Ü. Uslu
	12.00-12.50	Histology of Lymph Organs; General Specification	Ü. Uslu
	13.00-13.50		
	14.00-14.50	**LAB:** Thoracic Wall and Cavity A	ANATOMY
	15.00-15.50	**LAB:** Thoracic Wall and Cavity B	ANATOMY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
11-Sep-2014	09.00-09.50	Pericardium and Heart	I. Siatitsas
THURSDAY	10.00-10.50	Pericardium and Heart	I. Siatitsas
	11.00-11.50	Porphin, Porphyrins, Heme, Hemoglobin	İ. Özden
	12.00-12.50	Structure of Hemoglobin	İ. Özden
	13.00-13.50		
	14.00-14.50	**LAB:** Hematocrit Determination **Gr B**	PHYSIOLOGY
	15.00-15.50	**LAB:** Hematocrit Determination **Gr B** /Biochem. **Gr A**	PHYSIO./ BIOCHEM.
	16.00-16.50	**LAB:** Hematocrit Determination **Gr C /**Biochem. **Gr A**	PHYSIO./ BIOCHEM
	17.00-17.50	**LAB:** Hematocrit Determination **Gr C** /Biochem. **Gr A**	PHYSIO./ BIOCHEM
12-Sep-2014	09.00-09.50	Histology and Dev. of Thymus and Lymph Node	Ü. Uslu
FRIDAY	10.00-10.50	Histology and Development of Spleen	Ü. Uslu
	11.00-11.50	Introduction to Immunology	G. Yanıkkaya Demirel
	12.00-12.50	Hematopoesis and Development of Immune System	G. Yanıkkaya Demirel
	13.00-13.50		
	14.00-14.50	**CSL*:** Hand Washing & Wearing Sterile Gloves Gr. I	G. İzbırak /Ö.Tanrıöver
	15.00-15.50	**CSL:** Hand Washing & Wearing Sterile Gloves Gr. I	G. İzbırak /Ö.Tanrıöver
	16.00-16.50	**CSL:** Hand Washing & Wearing Sterile Gloves Gr. I	G. İzbırak /Ö.Tanrıöver
	17.00-17.50	Independent Study Hours	

CSL: Clinical Skills Laboratory

II. WEEK

DAY	HOUR	SUBJECT	LECTURER
15-Sep-2014	09.00-09.50	Pericardium and Heart	I. Siatitsas
MONDAY	10.00-10.50	Great vessels of the heart	I. Siatitsas
	11.00-11.50	Functions of Hemoglobin	İ. Özden
	12.00-12.50	Functions of Hemoglobin	İ. Özden
	13.00-13.50		
	14.00-14.50	Platelets and Coagulation	B. Yılmaz
	15.00-15.50	Platelets and Coagulation	B. Yılmaz
	16.00-16.50	**LAB:** Pericardium and Heart Gr. A	ANATOMY
	17.00-17.50	**LAB:** Vessels of the Heart Gr. A	ANATOMY
16-Sep-2014	09.00-09.50	Synthesis of Hemoglobin	İ. Özden
TUESDAY	10.00-10.50	Disorders Concerning Hemoglobin Synthesis	İ. Özden
	11.00-11.50	Lymphatic Circulation	
	12.00-12.50	Fetal Circulation	I. Siatitsas
	13.00-13.50		
	14.00-14.50	Blood Types and Transfusion Reactions	B. Yılmaz
	15.00-15.50	Blood Types and Transfusion Reactions	B. Yılmaz
	16.00-16.50	**LAB:** Pericardium and Heart Gr. B	ANATOMY
	17.00-17.50	**LAB:** Vessels of the Heart Gr. B	ANATOMY
17-Sep-2014	09.00-09.50	Regulation of Cardiac Function	B. Yılmaz
WEDNESDAY	10.00-10.50	Regulation of Cardiac Function	B. Yılmaz
	11.00-11.50	Introduction to Bioelectromagnetics: Electric Field	A. Maharramov
	12.00-12.50	Introduction to Bioelectromagnetics: Magnetic Field	A. Maharramov
	13.00-13.50		
	14.00-14.50	**LAB:** Histology of Lymph Organs **Gr A**	HISTOLOGY
	15.00-15.50	**LAB:** Histology of Lymph Organs **Gr A**	HISTOLOGY
	16.00-16.50	**LAB:** Blood Typing & Bleeding Time **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Blood Typing & Bleeding Time **Gr C**	PHYSIOLOGY
18-Sep-2014	09.00-09.50	Rhythmical Excitation of the Heart	B. Yılmaz
THURSDAY	10.00-10.50	Rhythmical Excitation of the Heart	B. Yılmaz
	11.00-11.50	**LAB:** Histology of Lymph Organs **Gr B**	HISTOLOGY
	12.00-12.50	**LAB:** Histology of Lymph Organs **Gr B**	HISTOLOGY
	13.00-13.50		
	14.00-14.50	**LAB:** Blood Typing & Bleeding Time **Gr B**	PHYSIOLOGY
	15.00-15.50	**LAB:** Blood Typing & Bleeding Time **Gr B**	PHYSIOLOGY
	16.00-16.50	**LAB:** Blood Typing & Bleeding Time **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Blood Typing & Bleeding Time **Gr A**	PHYSIOLOGY
19-Sep-2014	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Injury by Endogenous Substances	I. Doğan Ekici
	11.00-11.50	Cellular Injury and Necrosis	I. Doğan Ekici
	12.00-12.50	Cellular Injury and Necrosis	I. Doğan Ekici
	13.00-13.50		
	14.00-14.50	**CSL:** Hand Washing and Wearing Sterile Gloves Gr. II	G. İzbırak / Ö.Tanrıöver
	15.00-15.50	**CSL:** Hand Washing and Wearing Sterile Gloves Gr. II	G. İzbırak / Ö.Tanrıöver
	16.00-16.50	**CSL:** Hand Washing and Wearing Sterile Gloves Gr. II	G. İzbırak / Ö.Tanrıöver
	17.00-17.50	Independent Study Hours	

III. WEEK

DAY	HOUR	SUBJECT	LECTURER
22-Sep-2014	09.00-09.50	Principles of Electrocardiography	B. Yılmaz
MONDAY	10.00-10.50	Electrocardiographic Interpretation of Cardiac Abnormalities	B. Yılmaz
	11.00-11.50	Histology of Vascular Sys. General Spec. & Arteries	A. Cumbul
	12.00-12.50	Histology of Vascular System; Capillaries and Veins	A. Cumbul
	13.00-13.50		
	14.00-14.50	Mediastinum	Y. Aydar
	15.00-15.50	Mediastinum	Y. Aydar
	16.00-16.50	**LAB:** Electrocardiography **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Electrocardiography **Gr A**	PHYSIOLOGY
23-Sep-2014	09.00-09.50	Hematopoesis and Development of Immune System	G. Yanıkkaya Demirel
TUESDAY	10.00-10.50	Innate Immunity	G. Yanıkkaya Demirel
	11.00-11.50	LAB: Mediastinum Gr. A	ANATOMY
	12.00-12.50	LAB: Mediastenum Gr. B	ANATOMY
	13.00-13.50		
	14.00-14.50	Histology of Heart	A. Cumbul
	15.00-15.50	Development of Circulatory System; General Aspect	Ü. Uslu
	16.00-16.50	LAB: Electrocardiography Gr B	PHYSIOLOGY
	17.00-17.50	LAB: Electrocardiography Gr B	PHYSIOLOGY
24-Sep-2014	09.00-09.50	Innate Immunity	G. Yanıkkaya Demirel
WEDNESDAY	10.00-10.50	Adaptive Immunity	G. Yanıkkaya Demirel
	11.00-11.50	Introduction to Bioelectromagnetics: Electromagnetic Field	A. Maharramov
	12.00-12.50	Bioelectromagnetic Effects on the Heart	A. Maharramov
	13.00-13.50		
	14.00-14.50	Neck: The muscles and triangles	I. Siatitsas
	15.00-15.50	Neck: The muscles and triangles	I. Siatitsas
	16.00-16.50	**LAB:** Electrocardiography **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Electrocardiography **Gr C**	PHYSIOLOGY
25-Sep-2014	09.00-09.50	Adaptive Immunity	G. Yanıkkaya Demirel
THURSDAY	10.00-10.50	Immune Cell Trafficking	G. Yanıkkaya Demirel
	11.00-11.50	Biophysics of Cardiac Muscle Contraction	A. Maharramov
	12.00-12.50	Biophysics of Blood Pressure	A. Maharramov
	13.00-13.50		
	14.00-14.50	Introduction to Pathology	F. Özkan
	15.00-15.50	**LAB:** Biochemistry **Gr B**	BIOCHEMISTRY
	16.00-16.50	**LAB:** Biochemistry **Gr B**	BIOCHEMISTRY
	17.00-17.50	**LAB:** Biochemistry **Gr B**	BIOCHEMISTRY
26-Sep-2014	09.00-09.50	Degradation of Hemoglobin	İ. Özden
FRIDAY	10.00-10.50	Degradation of Hemoglobin	İ. Özden
	11.00-11.50	Antigen Antibody Interaction	G. Yanıkkaya Demirel
	12.00-12.50	Antigen Antibody Interaction	G. Yanıkkaya Demirel
	13.00-13.50		
	14.00-14.50	Development of the Heart	Ü. Uslu
	15.00-15.50	**CSL:** Hand Washing and Wearing Sterile Gloves Gr. III	G. İzbırak /Ö.Tanrıöver
	16.00-16.50	**CSL:** Hand Washing and Wearing Sterile Gloves Gr. III	G. İzbırak /Ö.Tanrıöver
	17.00-17.50	**CSL:** Hand Washing and Wearing Sterile Gloves Gr. III	G. İzbırak /Ö.Tanrıöver

IV. WEEK

DAY	HOUR	SUBJECT	LECTURER
29-Sep-2014	09.00-09.50	Development of the Heart	Ü. Uslu
MONDAY	10.00-10.50	Clinical Correlation: Congenital Heart Disease	Ü. Uslu
	11.00-11.50	Cardiac Arrhythmias	B. Yılmaz
	12.00-12.50	Cardiac Arrhythmias	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Adaptations	F. Özkan
	15.00-15.50	Adaptations	F. Özkan
	16.00-16.50	**LAB:** ECG-II **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** ECG-II **Gr A**	PHYSIOLOGY
30-Sep-2014	09.00-09.50	Clinical Correlation: Congenital Heart Disease	Ü. Uslu
TUESDAY	10.00-10.50	Development of Arteries and Anomalies	Ü. Uslu
	11.00-11.50	Neck: The muscles and triangles	I. Siatitsas
	12.00-12.50	Neck: The muscles and triangles	I. Siatitsas
	13.00-13.50		
	14.00-14.50	Principles of Hemodynamics	B. Yılmaz
	15.00-15.50	Principles of Hemodynamics	B. Yılmaz
	16.00-16.50	**LAB:** ECG-II **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** ECG-II **Gr B**	PHYSIOLOGY
1-Oct-2014	09.00-09.50	Biophysics of Hemodynamics	A. Maharramov
WEDNESDAY	10.00-10.50	Measurements of Different Hemodynamic Parameters	A. Maharramov
	11.00-11.50	Vascular Distensibility and Functions of Arterial and Venous Systems	B. Yılmaz
	12.00-12.50	Vascular Distensibility and Functions of Arterial and Venous Systems	B. Yılmaz
	13.00-13.50		
	14.00-14.50	LAB: Neck: The muscles and triangles Gr. A	ANATOMY
	15.00-15.50	LAB: Neck: The muscles and triangles Gr. B	ANATOMY
	16.00-16.50	**LAB:** ECG-II **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** ECG-II **Gr C**	PHYSIOLOGY
2-Oct-2014	09.00-09.50	Sampling, Data Collection and Data Processing	Ç. Kaspar
THURSDAY	10.00-10.50	Statistical Decision Theory, Test of Hypothesis and Significance	Ç. Kaspar
	11.00-11.50	Humoral Immunity	G. Yanıkkaya Demirel
	12.00-12.50	Humoral Immunity	G. Yanıkkaya Demirel
	13.00-13.50		
	14.00-14.50	Disorders Concerning Hemoglobin Metabolism	İ. Özden
	15.00-15.50	Disorders Concerning Hemoglobin Metabolism	İ. Özden
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	

OCTOBER 3 - OCTOBER 7 RELIGIOUS HOLIDAY

V. WEEK

DAY	HOUR	SUBJECT	LECTURER
8-Oct-2014	09.00-09.50	Independent Study Hour	
WEDNESDAY	10.00-10.50	Regulation of Blood Pressure	B. Yılmaz
	11.00-11.50	Regulation of Blood Pressure	B. Yılmaz
	12.00-12.50	Coronary Circulation	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Signal Transduction in Immune System	G. Yanıkkaya Demirel
	15.00-15.50	Scalp and Face	K. Yücel
	16.00-16.50	Scalp and Face	K. Yücel
	17.00-17.50	Scalp and Face	K. Yücel
DAY	**HOUR**	**SUBJECT**	**LECTURER**
9-Oct-2014	09.00-09.50	LAB: Scalp and Face Gr. B	ANATOMY
THURSDAY	10.00-10.50	LAB: Scalp and Face Gr. B	ANATOMY
	11.00-11.50	Hyperemia & Congestion	F. Özkan
	12.00-12.50	Hyperemia & Congestion	F. Özkan
	13.00-13.50		
	14.00-14.50	LAB: Scalp and Face Gr. A	ANATOMY
	15.00-15.50	LAB: Scalp and Face Gr. A	ANATOMY
	16.00-16.50	**LAB:** Blood Pressure **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Blood Pressure **Gr A**	PHYSIOLOGY
10-Oct-2014	09.00-09.50	Test Hypotheses and Significance in Large Samples	Ç. Kaspar
FRIDAY	10.00-10.50	Test Hypotheses and Significance in Large Samples	Ç. Kaspar
	11.00-11.50	**CSL:** Hand Washing and Wearing Sterile Gloves Gr. IV	G. İzbırak /Ö.Tanrıöver
	12.00-12.50	**CSL:** Hand Washing and Wearing Sterile Gloves Gr. IV	G. İzbırak /Ö.Tanrıöver
	13.00-13.50	**CSL:** Hand Washing and Wearing Sterile Gloves Gr. IV	G. İzbırak /Ö.Tanrıöver
	14.00-14.50	Overview of the Face and Neck	K. Yücel
	15.00-15.50	Overview of the Face and Neck	K. Yücel
	16.00-16.50	**LAB:** Blood Pressure **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Blood Pressure **Gr B**	PHYSIOLOGY

VI. WEEK

DAY	HOUR	SUBJECT	LECTURER
13-Oct-2014	09.00-09.50	Microcirculation and the Lymphatic System	B. Yılmaz
MONDAY	10.00-10.50	Capillary Fluid Exchange, Interstitial Fluid, and Lymph Flow	B. Yılmaz
	11.00-11.50	The Nose and Paranasal Sinuses	K. Yücel
	12.00-12.50	The Nose and Paranasal Sinuses	K. Yücel
	13.00-13.50		
	14.00-14.50	Hemodynamics	F. Özkan
	15.00-15.50	Hemodynamics	F. Özkan
	16.00-16.50	**LAB:** Nose and Paranasal Sinuses Gr A	ANATOMY
	17.00-17.50	**LAB:** Nose and Paranasal Sinuses Gr B	ANATOMY
14-Oct-2014	09.00-09.50	The Larynx	I. Siatitsas
TUESDAY	10.00-10.50	The Larynx	I. Siatitsas
	11.00-11.50	Local and Humoral Control of Blood Flow by the Tissues	B. Yılmaz
	12.00-12.50	Local and Humoral Control of Blood Flow by the Tissues	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Oxygen, Oxidative Stress, NO, Redox Disequilibrium in the Failing Heart and CVS	T. İsbir
	15.00-15.50	Oxygen, Oxidative Stress, NO, Redox Disequilibrium in the Failing Heart and Cardiovascular System	T. İsbir
	16.00-16.50	**LAB:** Hemodynamics Lab	PATHOLOGY
	17.00-17.50	**LAB:** Hemodynamics Lab	PATHOLOGY
15-Oct-2014	09.00-09.50	Hemorheology	A. Maharramov
WEDNESDAY	10.00-10.50	Hemorheology	A. Maharramov
	11.00-11.50	Development of Veins and Anomalies	Ü. Uslu
	12.00-12.50	Histology of the Upper Respiratory Tracts	A. Cumbul
	13.00-13.50		
	14.00-14.50	Trachea, pleura and lungs	I. Siatitsas
	15.00-15.50	Functional anatomy of breathing & diaphragm	I. Siatitsas
	16.00-16.50	**LAB:** Blood Pressure **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Blood Pressure **Gr C**	PHYSIOLOGY
16-Oct-2014	09.00-09.50	Heart Valves and Heart Sounds	B. Yılmaz
THURSDAY	10.00-10.50	Heart Valves and Heart Sounds	B. Yılmaz
	11.00-11.50	**LAB:** Larynx, Trachea, pleura and lungs Gr B	ANATOMY
	12.00-12.50	**LAB:** Larynx, Trachea, pleura and lungs Gr B	ANATOMY
	13.00-13.50		
	14.00-14.50	**LAB:** Larynx, Trachea, pleura and lungs Gr A	ANATOMY
	15.00-15.50	**LAB:** Larynx, Trachea, pleura and lungs Gr A	ANATOMY
	16.00-16.50	Cellular Immunity	G. Yanıkkaya Demirel
	17.00-17.50	Cellular Immunity	G. Yanıkkaya Demirel
17-Oct-2014	09.00-09.50	Immunodeficiencies	G. Yanıkkaya Demirel
FRIDAY	10.00-10.50	Immunodeficiencies	G. Yanıkkaya Demirel
	11.00-11.50	Clinical & Surface Anatomy of the Respiratory Sys.	I. Siatitsas
	12.00-12.50	Suboccipital region and Deep muscles of the back	I. Siatitsas
	13.00-13.50		
	14.00-14.50	**CSL:** Vital Signs Group I	Ö.Tanrıöver./ H. Akan
	15.00-15.50	**CSL:** Vital Signs Group I	Ö.Tanrıöver./ H. Akan
	16.00-16.50	**CSL:** Vital Signs Group I	Ö.Tanrıöver./ H. Akan
	17.00-17.50	**Independent Study Hours**	

VII. WEEK

DAY	HOUR	SUBJECT	LECTURER
20-Oct-2014	09.00-09.50	Cardiac Failure	B. Yılmaz
MONDAY	10.00-10.50	Circulatory Shock and Physiology of Its Treatment	B. Yılmaz
	11.00-11.50	Hypersensitivity Reactions, Allergy	G. Yanıkkaya Demirel
	12.00-12.50	Hypersensitivity Reactions, Allergy	G. Yanıkkaya Demirel
	13.00-13.50		
	14.00-14.50	Histology of the Respiratory Systems; Conducting Part	A. Cumbul
	15.00-15.50	Histology of the Respiratory Systems; Respiratory Part	A. Cumbul
	16.00-16.50	Cancer Immunology	G. Yanıkkaya Demirel
	17.00-17.50	Cancer Immunology	G. Yanıkkaya Demirel
21-Oct-2014	09.00-09.50	Nervous Regulation of the Circulation	B. Yılmaz
TUESDAY	10.00-10.50	Nervous Regulation of the Circulation	B. Yılmaz
	11.00-11.50	Biological Basis of Cardiovascular Diseases; Death Begets Failure in the Heart	T. Isbir
	12.00-12.50	Biological Basis of Cardiovascular Diseases; Death Begets Failure in the Heart	T. Isbir
	13.00-13.50		
	14.00-14.50	**LAB:** Heart Sounds **Gr A**	PHYSIOLOGY
	15.00-15.50	**LAB:** Heart Sounds **Gr A**	PHYSIOLOGY
	16.00-16.50	**LAB:** Heart Sounds **Gr B /** Biostatistics **Gr C**	PHYSIOL/BIOSTAT
	17.00-17.50	**LAB:** Heart Sounds **Gr B /** Biostatistics **Gr C**	PHYSIOL/BIOSTAT
22-Oct-2014	09.00-09.50	Pulmonary Ventilation	B. Yılmaz
WEDNESDAY	10.00-10.50	Pulmonary Ventilation	B. Yılmaz
	11.00-11.50	Infection and Immunity	G. Yanıkkaya Demirel
	12.00-12.50	Infection and Immunity	G. Yanıkkaya Demirel
	13.00-13.50		
	14.00-14.50	Biophysics of Respiration	A.Maharramov
	15.00-15.50	How to Write a Scientific Project	G. Yanıkkaya Demirel
	16.00-16.50	How to Write a Scientific Project	G. Yanıkkaya Demirel
	16.00-17.50	Suboccipital region and Deep muscles of the back	I. Siatitsas
23-Oct-2014	09.00-09.50	Pulmonary Circulation, Pulmonary Edema, Pleural Fluid	B. Yılmaz
THURSDAY	10.00-10.50	Pulmonary Circulation, Pulmonary Edema, Pleural Fluid	B. Yılmaz
	11.00-11.50	Injury by Toxic Substances and Pneumoconiosis	I. Doğan Ekici
	12.00-12.50	Injury by Toxic Substances and Pneumoconiosis	I. Doğan Ekici
	13.00-13.50		
	14.00-14.50	Principle of Surface Tension & Alveolar Mechanics	A. Maharramov
	15.00-15.50	Surfactant and Its Effect on Surface Tension	A. Maharramov
	16.00-16.50	**LAB:** Spirometry **Gr B** / Biostatistics **Gr A**	PHYSIOL/BIOSTAT
	17.00-17.50	**LAB:** Spirometry **Gr B** / Biostatistics **Gr A**	PHYSIOL/BIOSTAT
24-Oct-2014	09.00-09.50	Diffusion of Blood Gases	B. Yılmaz
FRIDAY	10.00-10.50	Diffusion of Blood Gases	B. Yılmaz
	11.00-11.50	Erythrocytes	İ. Özden
	12.00-12.50	Erythrocytes	İ. Özden
	13.00-13.50		
	14.00-14.50	Immunological Laboratory Tests	G. Yanıkkaya Demirel
	15.00-15.50	Immunological Laboratory Tests	G. Yanıkkaya Demirel
	16.00-16.50	LAB: Spirometry **Gr C** / Biostatistics **Gr B**	PHYSIOL/BIOSTAT
	17.00-17.50	LAB: Spirometry **Gr C** / Biostatistics **Gr B**	PHYSIOL/BIOSTAT

VIII. WEEK

DAY	HOUR	SUBJECT	LECTURER
27-Oct-2014	09.00-09.50	Transport of Blood Gases	B. Yılmaz
MONDAY	10.00-10.50	Transport of Blood Gases	B. Yılmaz
	11.00-11.50	Test Hypotheses and Significance in Large Samples	Ç. Kaspar
	12.00-12.50	Test Hypotheses and Significance in Large Samples	Ç. Kaspar
	13.00-13.50		
	14.00-14.50	Calcification and Amyloidosis	I. Doğan Ekici
	15.00-15.50	CSL: Vital Signs Group III / LAB: Spirometry Gr A	H. Akan / A. Akalın
	16.00-16.50	CSL: Vital Signs Group III / LAB: Spirometry Gr A	H. Akan /A. Akalın
	17.00-17.50	CSL: Vital Signs Group III	H. Akan / A. Akalın
28-Oct-2014	09.00-09.50	Regulation of Respiration	B. Yılmaz
TUESDAY	10.00-10.50	Regulation of Respiration	B. Yılmaz
	11.00-11.50	Overview of the Respiratory System	I. Siatitsas
	12.00-12.50	Overview of the Respiratory System	I. Siatitsas
	13.00-13.50		
	14.00-14.50	LAB: Suboccipital region and Deep muscles of the back Gr. A	ANATOMY
	15.00-15.50	LAB: Suboccipital region and Deep muscles of the back Gr. B	ANATOMY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
		29 OCTOBER NATIONAL HOLIDAY	
30-Oct-2014	09.00-09.50	Aviation, High-Altitude and Space Physiology	B. Yılmaz
THURSDAY	10.00-10.50	Physiology of Deep-Sea Diving and Hyperbaric Conditions	B. Yılmaz
	11.00-11.50	Head Development; Splanchocranium, Neurocranium	A.Cumbul
	12.00-12.50	Development of Neck; Pharyngeal Arches & Anomalies	A.Cumbul
	13.00-13.50		
	14.00-14.50	Invited Speaker	
	15.00-15.50	LAB: Visit to Hyperbaric Medicine Clinic & Seminar	PHYSIOLOGY
	16.00-16.50	LAB: Visit to Hyperbaric Medicine Clinic & Seminar	PHYSIOLOGY
	17.00-17.50	LAB: Visit to Hyperbaric Medicine Clinic	PHYSIOLOGY
31 -Oct-2014	09.00-09.50	Test Hypotheses and Significance in Small Samples	Ç. Kaspar
FRIDAY	10.00-10.50	Test Hypotheses and Significance in Small Samples	Ç. Kaspar
	11.00-11.50	Case Studies in Cardiovascular and Respiratory Systems	I. Siatitsas
	12.00-12.50	Case Studies in Cardiovascular and Respiratory Systems	I. Siatitsas
	13.00-13.50		
	14.00-14.50	**CSL:** Vital Signs Group II / **LAB:** Heart Sounds Gr C	Ö.Tanrıöver./ H. Akan
	15.00-15.50	**CSL:** Vital Signs Group II / **LAB:** Heart Sounds Gr C	Ö.Tanrıöver./ H. Akan
	16.00-16.50	**CSL:** Vital Signs Group II	Ö.Tanrıöver./ H. Akan
	17.00-17.50	Independent Study Hours	

IX. WEEK

DAY	HOUR	SUBJECT	LECTURER
3-Nov-2014	09.00-09.50	Development of the Respiratory Systems	A. Cumbul
MONDAY	10.00-10.50	Congenital Anomalies of Respiratory Systems	A. Cumbul
	11.00-11.50	Modeling in Circulatory & Respiratory Systems	A.Maharramov
	12.00-12.50	Modeling in Circulatory & Respiratory Systems	A.Maharramov
	13.00-13.50		
	14.00-14.50	Independent Study Hours	
	15.00-15.50	**LAB:** Histology of the CVS & Respiratory Sys. **Gr B**	HISTOLOGY
	16.00-16.50	**LAB:** Histology of the CVS & Respiratory Sys. **Gr B**	HISTOLOGY
	17.00-17.50	Independent Studu Hour	
4-Nov-2014	09.00-09.50	Test Hypotheses and Significance in Small Samples	Ç. Kaspar
TUESDAY	10.00-10.50	Test Hypotheses and Significance in Small Samples	Ç. Kaspar
	11.00-11.50	Functions of Hemoglobin	İ. Özden
	12.00-12.50	Functions of Hemoglobin	İ. Özden
	13.00-13.50		
	14.00-14.50	**LAB:** Histology of the CVS & Respiratory Sys. **Gr A**	HISTOLOGY
	15.00-15.50	**LAB:** Histology of the CVS & Respiratory Sys. **Gr A**	HISTOLOGY
	16.00-16.50	Hemorrhage and Thrombosis	F. Özkan
	17.00-17.50	Hemorrhage and Thrombosis	F. Özkan
5-Nov-2014	09.00-09.50	Ischemia and Infarction	F. Özkan
WEDNESDAY	10.00-10.50	Biochemistry of the Muscle Tissue	S. Öztezcan
	11.00-11.50	**LAB:** Discussion	HISTOLOGY
	12.00-12.50	**LAB:** Discussion	HISTOLOGY
	13.00-13.50		
	14.00-14.50	CSL: Vital Signs Group IV	H. Akan / A.Akalın
	15.00-15.50	CSL: Vital Signs Group IV	H. Akan / A.Akalın
	16.00-16.50	CSL: Vital Signs Group IV	H. Akan / A.Akalın
	17.00-17.50	Independent Study Hours	
6-Nov-2014	09.00-09.50	Independent Study Hours	
THURSDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Independent Study Hours	
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	Independent Study Hours	
	15.00-15.50	Independent Study Hours	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
7-Nov-2014	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Independent Study Hours	
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	Independent Study Hours	
	15.00-15.50	Independent Study Hours	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	

IX. WEEK DAY	HOUR	SUBJECT IX. WEEK (EXAM WEEK)
10-Nov-2014 MONDAY	09.00-09.50	**COMMEMORATION OF ATATÜRK**
	10.00-10.50	
	11.00-11.50	
	12.00-12.50	
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
11-Nov-2014 TUESDAY	09.00-09.50	Independent Study Hours
	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
12-Nov-2014 WEDNESDAY	09.00-09.50	Independent Study Hours
	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
13-Nov-2014 THURSDAY		**PRACTICAL EXAM**
14-Nov-2014 FRIDAY		**THEORETICAL EXAM** **BIOSTASTISTICS EXAM**

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

GASTROINTESTINAL SYSTEM and METABOLISM
COMMITTEE II
DISTRIBUTION of LECTURE HOURS
November 17 – December 19, 2014
COMMITTEE DURATION: 6 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MD 220	**BASIC MEDICAL SCIENCES II**	**117**	***20***	***137***
	DISCIPLINE			
	ANATOMY	20	2Grx7H	27
	BIOCHEMISTRY	36	3Grx3H	39
	BIOPHYSICS	14	0	14
	BIOSTATISTICS	8	3Grx2H	10
	HISTOLOGY & EMBRYOLOGY	12	2Grx5H	17
	IMMUNOLOGY	2	0	2
	MEDICAL BIOLOGY	6	0	6
	PHYSIOLOGY	17	3Grx3H	20
	SCIENTIFIC PROJECTS-II	2	0	2

MD 242	**INTRODUCTION TO CLINICAL PRACTICE- II**	4	8	12

II. Coordination Committee	Head	İnci Özden, PhD Prof.
	Secretary	Alev Cumbul, PhD Assist. Prof.
	Member	Soner Doğan, PhD Assist. Prof.
	Member	Burcu Şeker, PhD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE II
GASTROINTESTINAL SYSTEM and METABOLISM
LECTURERS

BASIC MEDICAL SCIENCES II	**FACULTY**
DISCIPLINE	
ANATOMY	Ioannis SIATITSAS, MD PhD Prof. Yüksel AYDAR, PhD Prof.* Kaan YÜCEL, MD PhD Assist. Prof. LAB: Sinem GERGIN, MD
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof.
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assist. Prof.
BIOSTATISTICS	Çiğdem KASPAR, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc.. Prof. Alev CUMBUL, PhD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMIREL, MD, PhD Assoc. Prof.
MEDICAL BIOLOGY	Turgay İSBIR, PhD Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR KOÇAK, MD PhD Assist. Prof. Burcu ŞEKER, PhD Assist. Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMIREL, MD, PhD Assoc. Prof.
INTRODUCTION TO CLINICAL PRACTICE- II	Güldal İZDIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assoc. Prof. A. Arzu AKALIN, MD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE II
GASTROINTESTINAL SYSTEM and METABOLISM

AIM and LEARNING OBJECTIVES

AIM

1. To convey information about biophysical, biological, anatomical, embryological, histological, physiological and biochemical properties of gastrointestinal system,
2. To convey knowledge on metabolic events in human organism and their clinical reflections.
3. To convey information about good laboratory and clinical practices in research projects.

LEARNING OBJECTIVES

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

KNOWLEDGE

1.0. describe metabolic events in human organism, using concepts of internal energy, work, temperature, entropy, free energy and enthalpy.
2.0. describe gastrointestinal system biology and basics of proper alimentation.
3.0. For oral cavity, temporomandibular joint, chewing muscles, pharynx, esophagus, stomach, small intestine, large intestine, liver, gall bladder and tracts, pancreas, spleen and peritoneum;
  3.1. describe the anatomy,
  3.2. associate with adjacent tissue and organs,
  3.3. explain their functional and clinical reflections.
4.0. For abdominal wall, inguinal canal and portal system;
  4.1. describe anatomy,
  4.2. associate with adjacent tissue and organs,
  4.3. explain their functional and clinical reflections.
5.0. For digestive system and related glands;
  5.1. classify embryological origins, developmental stages and histological properties,
  5.2. associate the relation between birth abnormalities and developmental processes.
6.0. For lipid, protein and carbohydrate metabolisms;
  6.1. describe physiological mechanisms,
  6.2. explain the relation to each other,
  6.3. associate the changes of these relations at fasting and postprandial phase.
7.0 In digestive system;
  7.1. list exocrine glands secreting acid-neutralizing fluids,
  7.2. explain their secretion mechanisms,
  7.3. explain hormonal and neural factors.
8.0 classify the roles of enzymes and hormones in digestion and absorption of lipids and proteins.
9.0 explain types and roles of lipoproteins.
10.0 explain metabolisms of fatty acids, cholesterol, ketone bodies.
11.0 explain amino acid metabolisms, synthesis of urea and control mechanism of the synthesis.
12.0 explain good laboratory (GLP) and clinical (GCP) practice for research projects.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

GASTROINTESTINAL SYSTEM and METABOLISM COMMITTEE II

COMMITTEE EXAM ASSESSMENT TABLE

LEARNING OBJECTIVES	**FACULTY DEPARTMENT**	**LECTURER / INSTRUCTOR**	**NUMBER OF QUESTIONS MCQ***			
			CE	**FE**	**IE**	**TOTAL**
3.0, 3.1, 4.0-4.2	ANATOMY	Dr. I. Siatitsas Dr. Y. Aydar Dr. K. Yücel	**16**	**7**	**3**	**26**
2.0, 6.0-6.3, 8.0-11.0	BIOCHEMISTRY	Dr. İ. Özden	**28**	**10**	**5**	**43**
1	BIOPHYSICS	Dr. A. Maharramov	**9**	**4**	**2**	**15**
12	BIOSTATISTICS	Dr. Ç. Kaspar	**-**	**2**	**1**	**3**
5.0-5.2	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu	**5**	**3**	**1**	**9**
		Dr. A. Cumbul	**4**	**1**	**1**	**6**
3,3	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	**1**	**1**	**1**	**3**
3.3,4.3	MEDICAL BIOLOGY	Dr. T.İsbir	**3**	**2**	**1**	**6**
7.0-7.3	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Koçak Dr. B. Şeker	**14**	**5**	**3**	**22**
12	SCIENTIFIC PROJECTS	Dr. G. Yanıkkaya Demirel	**-**	**-**	**-**	**-**
	TOTAL		**80**	**35#**	**18##**	**133**
LEARNING OBJECTIVES	**FACULTY DEPARTMENT**	**LECTURER / INSTRUCTOR**	**POINT OF QUESTIONS EMQ**, OSPE***, WE****			
			EMQ	**OSPE**	**WE**	**TOTAL (pts)**
3.0, 3.1, 4.0-4.2	ANATOMY	Dr. I. Siatitsas Dr. Y. Aydar Dr. K. Yücel	**2.5**	**2.5**	**-**	**5**
2.0, 6.0-6.3, 8.0-11.0	BIOCHEMISTRY	Dr. İ. Özden	**2.5**	**0.5**	**-**	**3**
12	BIOSTATISTICS	Dr. Ç. Kaspar	**-**	**-**	**5**	**5**
5.0-5.2	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu	**2.5**	**2**	**-**	**4.5**
7.0-7.3	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Koçak Dr. B. Şeker	**2.5**	**-**	**-**	**2.5**

COMMITTEE ASSESSMENT TABLE DESCRIPTION

Total number of multiple choice questions is **80**, equal to **80** pts,
Each multiple choice question has a value equal to **1** pt,
Extending matching questions have value equal to **10** pts and this question type will only be used for the Committee Exam (CE).
MCQ*: Multiple Choice Question
EMQ:** Extending Matching Question
OSPE*:** Objective Structured Practical Exam
WE**:** Writing Exam
CE: Committee Exam
FE: Final Exam
IE: Incomplete Exam
pts: Points

35 out of 192 final exam questions will be from Committee II; 4 pts will be added from the scientific project report to the final grade, completing the points to 100. (Each Final Exam Question is worth 0.5 pts)
18 out of 96 incomplete exam questions will be from Committee II; 4 pts will be added from the scientific project report to the final grade, completing the points to 100. (Each Incomplete Exam Question is worth 1 pt)

PHASE II		**GASTROINTESTINAL SYSTEM and**	**COMMITTEE II**
I. WEEK		**METABOLISM**	
DAY	**HOUR**	**SUBJECT**	**LECTURER**
17-Nov-2014	09.00-09.50	Independent Study Hours	
MONDAY	10.00-10.50	Introduction to Committee II	
	11.00-11.50	Abdominal Wall	Y. Aydar
	12.00-12.50	Inguinal canal	Y. Aydar
	13.00-13.50		
	14.00-14.50	Digestion and Absorptions of Lipids	İ. Özden
	15.00-15.50	Fate of Absorbed Lipids	İ. Özden
	16.00-16.50	**LAB:** Abdominal wall and inguinal canal Gr. A	ANATOMY
	17.00-17.50	**LAB:** Abdominal wall and inguinal canal Gr. B	ANATOMY
18-Nov-2014	09.00-09.50	Oral Cavity	Y. Aydar
TUESDAY	10.00-10.50	Oral Cavity	Y. Aydar
	11.00-11.50	Gastrointestinal Functions	B. Yılmaz
	12.00-12.50	Gastrointestinal Functions	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Bio-thermodynamics, Laws of Thermodynamics	A. Maharramov
	15.00-15.50	The Zeroth and First Laws of Thermodynamics	A. Maharramov
	16.00-16.50	**LAB**: Oral Cavity Gr. B	ANATOMY
	17.00-17.50	**LAB**: Oral Cavity Gr. A	ANATOMY
19-Nov-2014	09.00-09.50	Transport of Lipids in Blood	İ. Özden
WEDNESDAY	10.00-10.50	Transport of Lipids in Blood	İ. Özden
	11.00-11.50	Pharynx and Esophagus	K. Yücel
	12.00-12.50	Pharynx and Esophagus	K. Yücel
	13.00-13.50		
	14.00-14.50	Propulsion and Mixing Movements in the GI tract	B. Yılmaz
	15.00-15.50	Gastrointestinal Motility and Nervous Control	B. Yılmaz
	16.00-16.50	**LAB**: Pharynx and Esophagus Gr. B	ANATOMY
	17.00-17.50	**LAB**: Pharynx and Esophagus Gr. A	ANATOMY
20-Nov-2014	09.00-09.50	Histology of Upper GI Tract; Oral Cavity	U. Uslu
THURSDAY	10.00-10.50	Histology of Upper GI Tract; Tongue, Esophagus	U. Uslu
	11.00-11.50	Synthesis of Fatty Acids	İ. Özden
	12.00-12.50	Synthesis of Triacylglycerols	İ. Özden
	13.00-13.50		
	14.00-14.50	LAB: GrA	BIOCHEMISTRY
	15.00-15.50	LAB: GrA	BIOCHEMISTRY
	16.00-16.50	LAB: GrA	BIOCHEMISTRY
	17.00-17.50	Independent Study Hours	
21-Nov-2014	09.00-09.50	Analysis of Variance and Multiple Comparisons	Ç. Kaspar
FRIDAY	10.00-10.50	Analysis of Variance and Multiple Comparisons	Ç. Kaspar
	11.00-11.50	Oxidation of Fatty Acids	İ. Özden
	12.00-12.50	Oxidation of Fatty Acids	İ. Özden
	13.00-13.50		
	14.00-14.50	Histology of Lower GIT; Esophagus, Stomach	A.Cumbul Ö.Tanrıöver/
	15.00-15.50	CSL: Nasogastric Administration Group I	A. Akalın Ö.Tanrıöver/
	16.00-16.50	CSL: Nasogastric Administration Group I	A. Akalın Ö.Tanrıöver/
	17.00-17.50	CSL: Nasogastric Administration Group I	A. Akalın

II. WEEK

DAY	HOUR	SUBJECT	LECTURER
24-Nov-2013	09.00-09.50	Secretory Functions of the Alimentary Tract	B. Yılmaz
MONDAY	10.00-10.50	Secretory Functions of the Alimentary Tract	B. Yılmaz
	11.00-11.50	Cholesterol Synthesis	İ. Özden
	12.00-12.50	Lipolysis	İ. Özden
	13.00-13.50		
	14.00-14.50	Interrelationship of Biology of Major Organs	T. İsbir
	15.00-15.50	Interrelationship of Biology of Major Organs	T. İsbir
	16.00-16.50	Stomach and Intestines	I. Siatitsas
	17.00-17.50	Stomach and Intestines	I. Siatitsas
25-Nov-2013	09.00-09.50	Histology of Lower GIT; Small Intestine	A.Cumbul
TUESDAY	10.00-10.50	Histology of Lower GIT; Large Intestine	A.Cumbul
	11.00-11.50	Liver and Pancreas	I. Siatitsas
	12.00-12.50	Liver and Pancreas	I. Siatitsas
	13.00-13.50		
	14.00-14.50	Nonparametric Statistics	Ç. Kaspar
	15.00-15.50	Nonparametric Statistics	Ç. Kaspar
	16.00-16.50	LAB: Stomach, Intestines, Liver, and Pancreas Gr. A	ANATOMY
	17.00-17.50	LAB: Stomach, Intestines, Liver, and Pancreas Gr. B	ANATOMY
26-Nov-2014	09.00-09.50	Cholesterol Homeostasis in Liver	İ. Özden
WEDNESDAY	10.00-10.50	Cholesterol Homeostasis in Liver	İ. Özden
	11.00-11.50	Linear Regression and Correlation	Ç. Kaspar
	12.00-12.50	Linear Regression and Correlation	Ç. Kaspar
	13.00-13.50		
	14.00-14.50	Good Laboratory Practice (GLP) and Good Clinical Practice (GCP) in Research Projects	G. Yanıkkaya Demirel
	15.00-15.50	LAB: Gr B	BIOCHEMISTRY
	16.00-16.50	LAB: Gr B	BIOCHEMISTRY
	17.00-17.50	LAB: Gr B	BIOCHEMISTRY
27-Nov-2014	09.00-09.50	Applications of the First Law to Isochoric Process	A. Maharramov
THURSDAY	10.00-10.50	Applications of the First Law to Isobaric Process, Enthalpy	A. Maharramov
	11.00-11.50	Digestion and Absorption of Proteins	İ. Özden
	12.00-12.50	Digestion and Absorption of Proteins	İ. Özden
	13.00-13.50		
	14.00-14.50	Digestion and Absorption in the Gastrointestinal Tract	B. Yılmaz
	15.00-15.50	Digestion and Absorption in the Gastrointestinal Tract	B. Yılmaz
	16.00-16.50	**LAB**: Physiology **Gr A** / Biostatistics **Gr C**	PHYSIOL/BIOSTAT
	17.00-17.50	**LAB:** Physiology **Gr A** / Biostatistics **Gr C**	PHYSIOL/BIOSTAT
28-Nov-2014	09.00-09.50	Reactions Involved in Catabolism of Amino Acids	İ. Özden
FRIDAY	10.00-10.50	Catabolism of Amino Groups of Amino Acids	İ. Özden
	11.00-11.50	**LAB:** Physiology **Gr B**	PHYSIOLOGY
	12.00-12.50	**LAB:** Physiology **Gr B**	PHYSIOLOGY
	13.00-13.50		
	14.00-14.50	CSL: Nasogastric Administration Group II	Ö.Tanrıöver/ A. Akalın
	15.00-15.50	CSL: Nasogastric Administration Group II	Ö.Tanrıöver/ A. Akalın
	16.00-16.50	CSL: Nasogastric Administration Group II	Ö.Tanrıöver/ A. Akalın
	17.00-17.50	Independent Study Hours	

III. WEEK

DAY	HOUR	SUBJECT	LECTURER
1-Dec-2014	09.00-09.50	Individual Amino Acids (Metabolism, Features etc)	İ. Özden
MONDAY	10.00-10.50	Individual Amino Acids (Metabolism, Features etc)	İ. Özden
	11.00-11.50	Applications of the First Law to Isothermal Process	A. Maharramov
	12.00-12.50	Applications of the First Law to Adiabatic Process	A. Maharramov
	13.00-13.50		
	14.00-14.50	Evaluation of Scientific Research Projects	G. Yanıkkaya Demirel
	15.00-15.50	**LAB: Gr C**	BIOCHEMISTRY
	16.00-16.50	**LAB: Gr C**	BIOCHEM
	17.00-17.50	**LAB: Gr C**	BIOCHEM
2-Dec-2014	09.00-09.50	Individual Amino Acids (Metabolism, features etc)	İ. Özden
TUESDAY	10.00-10.50	Individual Amino Acids (Metabolism, features etc)	İ. Özden
	11.00-11.50	Peritoneum, Omenta, and Portal System	I. Siatitsas
	12.00-12.50	Peritoneum, Omenta, and Portal System	I. Siatitsas
	13.00-13.50		
	14.00-14.50	Salivary Glands	Ü. Uslu
	15.00-15.50	Glands Associated with the Digestive System; Liver	Ü. Uslu
	16.00-16.50	**LAB:** Physiology **Gr C /** Biostatistics **Gr A**	PHYSIOL/BIOSTAT
	17.00-17.50	**LAB:** Physiology **Gr C /** Biostatistics **Gr A**	PHYSIOL/BIOSTAT
3-Dec-2014	09.00-09.50	Energetics and Metabolic Rate	B. Yılmaz
WEDNESDAY	10.00-10.50	Energetics and Metabolic Rate	B. Yılmaz
	11.00-11.50	LAB: Peritoneum, Omenta, and Portal System Gr. B	ANATOMY
	12.00-12.50	LAB: Peritoneum, Omenta, and Portal System Gr. B	ANATOMY
	13.00-13.50		
	14.00-14.50	Invited Speaker	
	15.00-15.50	Invited Speaker	
	16.00-16.50	LAB: Peritoneum, Omenta, and Portal System Gr. A	ANATOMY
	17.00-17.50	LAB: Peritoneum, Omenta, and Portal System Gr. A	ANATOMY
4-Dec-2014	09.00-09.50	The Second Law of Thermodynamics	A. Maharramov
THURSDAY	10.00-10.50	Entropy, Free Energy, Enthalpy, Boltzmann Distribution	A. Maharramov
	11.00-11.50	Urea Cycle	İ. Özden
	12.00-12.50	Regulation of Urea Cycle	İ. Özden
	13.00-13.50		
	14.00-14.50	Liver as Organ	B. Yılmaz
	15.00-15.50	**LAB:** Hist.of Gastrointestinal System I **Gr A**	HISTOLOGY
	16.00-16.50	**LAB:** Hist.of Gastrointestinal System I **Gr A**	HISTOLOGY
	17.00-17.50	Independent Study Hours	
5-Dec-2014	09.00-09.50	Overview of Metabolism	İ. Özden
FRIDAY	10.00-10.50	Citric Acid (TCA) Cycle	İ. Özden
	11.00-11.50	Biological Energy-Mass Flow	A. Maharramov
	12.00-12.50	Diffusion and Electro-Diffusion	A. Maharramov
	13.00-13.50		
	14.00-14.50	**CSL:** Nasogastric Administration Group III	Ö.Tanrıöver/ A. Akalın
	15.00-15.50	**CSL:** Nasogastric Administration Group III	Ö.Tanrıöver/ A. Akalın
	16.00-16.50	**CSL:** Nasogastric Administration Group III	Ö.Tanrıöver/ A. Akalın
	17.00-17.50	Independent Study Hours	

IV. WEEK

DAY	HOUR	SUBJECT	LECTURER
8-Dec-2014	09.00-09.50	Glands Associated with the Digestive System; Liver	Ü. Uslu
MONDAY	10.00-10.50	Glands Associated with the Digestive System; APUD	Ü. Uslu
	11.00-11.50	Vessels and nerves of the gastrointestinal system	K. Yücel
	12.00-12.50	Vessels and nerves of the gastrointestinal system	K. Yücel
	13.00-13.50		
	14.00-14.50	Citric Acid (TCA) Cycle	İ. Özden
	15.00-15.50	Metabolic Interrelationships and Provision of Tissue Fuels	İ. Özden
	16.00-16.50	**LAB:** Hist.of Gastrointestinal System I **Gr B**	HISTOLOGY
	17.00-17.50	**LAB:** Hist.of Gastrointestinal System I **Gr B**	HISTOLOGY
9-Dec-2014	09.00-09.50	LAB: Vessels and nerves of the GIS Gr. B	ANATOMY
TUESDAY	10.00-10.50	LAB: Vessels and nerves of the GIS Gr. A	ANATOMY
	11.00-11.50	Regulation of Feeding and Obesity	B. Yılmaz
	12.00-12.50	Regulation of Feeding and Obesity	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Clinical Anatomy of the Gastrointestinal System	I. Siatitsas
	15.00-15.50	Clinical Anatomy of the Gastrointestinal System	I. Siatitsas
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
10-Dec-2014	09.00-09.50	Body Temperature and its Regulation	B. Yılmaz
WEDNESDAY	10.00-10.50	Body Temperature and its Regulation	B. Yılmaz
	11.00-11.50	Metabolic Interrelationships and Provision of Tissue Fuels	İ. Özden
	12.00-12.50	Xenobiotic Metabolism	İ. Özden
	13.00-13.50		
	14.00-14.50	Overview of the Gastrointestinal System	K. Yücel
	15.00-15.50	Overview of the Gastrointestinal System	K. Yücel
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
11-Dec-2014	09.00-09.50	Interrelationship of Biology of Major Organs	T. İsbir
THURSDAY	10.00-10.50	Interrelationship of Biology of Major Organs	T. İsbir
	11.00-11.50	Photosynthesis and Respiration, Spectrum of Photo-biological Effects	A. Maharramov
	12.00-12.50	Free Energy and Enthalpy Changes in the Processes of Photosynthesis and Respiration	A. Maharramov
	13.00-13.50		
	14.00-14.50	Xenobiotic Metabolism	İ. Özden
	15.00-15.50	Xenobiotic Metabolism	İ. Özden
	16.00-16.50	Computer Applications of Tests of Significance	Ç. Kaspar
	17.00-17.50	Selection of Statistical Tests to Use in a Study	Ç. Kaspar
12-Dec-2014	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Development of the Digestive System	Ü. Uslu
	11.00-11.50	Development of the Digestive System	Ü. Uslu
	12.00-12.50		
	13.00-13.50	Purine and Pyrimidine Metabolism	İ. Özden
	14.00-14.50	Purine and Pyrimidine Metabolism	İ. Özden
	15.00-15.50	**CSL:** Nasogastric Administration Group IV	Ö.Tanrıöver/A.Akalın
	16.00-16.50	**CSL:** Nasogastric Administration Group IV	Ö.Tanrıöver/A.Akalın
	17.00-17.50	**CSL:** Nasogastric Administration Group IV	Ö.Tanrıöver/A.Akalın

V. WEEK

DAY	HOUR	SUBJECT	LECTURER
15-Dec-2014	09.00-09.50	Purine and Pyrimidine Metabolism	İ. Özden
MONDAY	10.00-10.50	Purine and Pyrimidine Metabolism	İ. Özden
	11.00-11.50	Nutrigenomics	T. İsbir
	12.00-12.50	Nutrigenomics	T. İsbir
	13.00-13.50		
	14.00-14.50	Energy Transformation & Distribution in Bio-molecular Systems	A. Maharramov
	15.00-15.50	Energy Transformation & Distribution in Bio-molecular Systems	A. Maharramov
	16.00-16.50	**LAB:** Hist.of Gastrointestinal System II **Gr B**	HISTOLOGY
	17.00-17.50	**LAB:** Hist.of Gastrointestinal System II **Gr B**	HISTOLOGY
16-Dec-2014	09.00-09.50	Physiology of Gastrointestinal Disorders	B. Yılmaz
TUESDAY	10.00-10.50	Physiology of Gastrointestinal Disorders	B. Yılmaz
	11.00-11.50	**LAB:** Histology of Gastrointestinal System II **Gr A**	HISTOLOGY
	12.00-12.50	**LAB:** Histology of Gastrointestinal System II **Gr A**	HISTOLOGY
	13.00-13.50		
	14.00-14.50	Case Studies in Gastrointestinal System	I. Siatitsas
	15.00-15.50	Case Studies in Gastrointestinal System	I. Siatitsas
	16.00-16.50	**LAB:** Biostatistics **Gr B**	BIOSTAT
	17.00-17.50	**LAB:** Biostatistics **Gr B**	BIOSTAT
17-Dec-2014	09.00-09.50	Purine and Pyrimidine Metabolism	İ. Özden
WEDNESDAY	10.00-10.50	Purine and Pyrimidine Metabolism	İ. Özden
	11.00-11.50	Mucosal Immunity	G. Yanıkkaya Demirel
	12.00-12.50	Mucosal Immunity	G. Yanıkkaya Demirel
	13.00-13.50		
	14.00-14.50	Congenital Anomalies of the Digestive System	Ü. Uslu
	15.00-15.50	**LAB:** DISCUSSION	HISTOLOGY
	16.00-16.50	**LAB:** DISCUSSION	HISTOLOGY
	17.00-17.50	Independent Study Hours	
18-Dec-2014	09.00-09.50	Independent Study Hours	
THURSDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Independent Study Hours	
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	Independent Study Hours	
	15.00-15.50	Independent Study Hours	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
19-Dec-2014	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Independent Study Hours	
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	Independent Study Hours	
	15.00-15.50	Independent Study Hours	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	

22-Dec-2014		**VI. WEEK (EXAM WEEK)**
	09.00-09.50	Independent Study Hours
MONDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
23-Dec-2014	09.00-09.50	Independent Study Hours
TUESDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
24-Dec-2014	09.00-09.50	Independent Study Hours
WEDNESDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
25-Dec-2014		**PRACTICAL EXAM**
THURSDAY		
26-Dec-2014		**THEORETICAL EXAM**
FRIDAY		**BIOSTATISTICS EXAM**

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

ENDOCRINE and UROGENITAL SYSTEMS COMMITTEE III
DISTRIBUTION of LECTURE HOURS
December 29, 2014 – February 13, 2015
COMMITTEE DURATION: 6 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MD 220	**BASIC MEDICAL SCIENCES II**	**92**	**20**	**112**
	DISCIPLINE			
	PHYSIOLOGY	30	3GRX6H	36
	BIOCHEMISTRY	26	3GRX3H	29
	HISTOLOGY & EMBRYOLOGY	15	2GRX5H	20
	ANATOMY	13	2GRX6	19
	MEDICAL BIOLOGY	6	0	6
	SCIENTIFIC PROJECTS-II	2	0	2
MD 242	**INTRODUCTION TO CLINICAL PRACTICE- II**	3	6	9

III. Coordination Committee	Head	Turgay İsbir, PhD Prof.
	Secretary	Soner Doğan, PhD Assist. Prof.
	Member	Burcu Şeker, PhD Assist. Prof.
	Member	Alev Cumbul, PhD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II
COMMITTEE III

ENDOCRINE and UROGENITAL SYSTEMS
LECTURERS
December 29, 2014 – February 13, 2015

BASIC MEDICAL SCIENCES II	**FACULTY**
DISCIPLINE	
ANATOMY	Ioannis SIATITSAS, MD PhD Prof. Yüksel AYDAR, PhD Prof.* Kaan YÜCEL, MD PhD Assist. Prof. LAB: Sinem GERGIN, MD
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc.. Prof. Alev CUMBUL, PhD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMIREL, PhD Assoc. Prof.
MEDICAL BIOLOGY	Turgay İŞBIR, PhD Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR KOÇAK, MD PhD Assist. Prof. Burcu ŞEKER, PhD Assist. Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMIREL, MD, PhD Assoc. Prof.
INTRODUCTION TO CLINICAL PRACTICE- II	Güldal İZBIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assoc. Prof. A. Arzu AKALIN, MD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE III
ENDOCRINE and UROGENITAL SYSTEMS

AIM and LEARNING OBJECTIVES

AIM

1. *To convey* knowledge about biological, anatomical, embryological, histological, physiological and biochemical properties of endocrine and urogenital system.

LEARNING OBJECTIVES

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

1.0. describe biology of gonadal development and genetic differentiation.
2.0 In urogenital system, for male and female genital system organs, kidney, ureter, bladder, urethra, pelvis and perineum;
  2.1 describe its anatomy,
  2.2 associate with adjacent tissue and organs,
  2.3 explain their functional and clinical reflections.
3.0 In endocrine system, for thyroid, parathyroid, suprarenal gland and thymus,
  3.1 describe its anatomy,
  3.2 associate with adjacent tissue and organs,
  3.3 explain their functional and clinical reflections.
4.0 For endocrine and urogenital system;
  4.1 classify embryological origins,
  4.2 explain developmental stages,
  4.3 describe histological properties,
  4.4 associate the relation between birth abnormalities and developmental processes.
5.0. In endocrine system;
  5.1. describe endocrine, paracrine and neuroendocrine secretion,
  5.2. explain the regulatory role of hypothalamus and pituitary gland,
  5.3. list secretions and functions of endocrine glands and organs.
6.0. In urinary system;
  6.1. explain renal function and structure of nephrones,
  6.2. explain renal blood flow and mechanisms of urine production,
  6.3. explain liquid-electrolyte and acid-base equilibrium.
7.0. In genital system;
  7.1. explain reproductive hormones and their functions in men and women,
  7.2. describe changes in the maternal body in pregnancy and lactation.
8.0. For hormones;
  8.1. classify according to mechanisms of action,
  8.2. explain their effects and relation to each other.
9.0. explain biochemical functions of vitamins and elements.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

ENDOCRINE and UROGENITAL SYSTEMS COMMITTEE III

COMMITTEE EXAM ASSESSMENT TABLE

LEARNING OBJECTIVES	**FACULTY DEPARTMENT**	**LECTURER / INSTRUCTOR**	**NUMBER OF QUESTIONS MCQ***			
			CE	**FE**	**IE**	**TOTAL**
3.0-5.0	ANATOMY	Dr. I. Siatitsas Dr. Y. Aydar Dr. K. Yücel	**14**	**5**	**3**	**22**
7.0- 9.0	BIOCHEMISTRY	Dr. İ. Özden	**24**	**8**	**4**	**36**
4	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu	**8**	**3**	**1**	**12**
		Dr. A. Cumbul	**6**	**2**	**1**	**9**
1	MEDICAL BIOLOGY	Dr. T.İsbir	**3**	**1**	**1**	**5**
5.0-7.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Koçak Dr. B. Şeker	**25**	**9**	**4**	**38**
	SCIENTIFIC PROJECTS	Dr. G. Yanıkkaya Demirel	**-**	**-**	**-**	**-**
	TOTAL		**80**	**28#**	**14##**	**122**
LEARNING OBJECTIVES	**FACULTY DEPARTMENT**	**LECTURER / INSTRUCTOR**	**POINT OF QUESTIONS EMQ**, OSPE***, WE****			
			EMQ	**OSPE**	**WE**	**TOTAL (pts)**
3.0-5.0	ANATOMY	Dr. I. Siatitsas Dr. Y. Aydar Dr. K. Yücel	**2.5**	**3.5**	**-**	**6**
7.0- 9.0	BIOCHEMISTRY	Dr. İ. Özden	**2.5**	**0.5**	**-**	**3**
4	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu	**2.5**	**3**	**-**	**5.5**
5.0-7.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Koçak Dr. B. Şeker	**2.5**	**3**	**-**	**5.5**

COMMITTEE ASSESSMENT TABLE DESCRIPTION

Total number of multiple choice questions is 80, equal to 80 pts,
Each multiple choice question has a value equal to **1** pt,
Extending matching questions have value equal to **10** pts and this question type will only be used for the Committee Exam (CE).
MCQ*: Multiple Choice Question
EMQ:** Extending Matching Question
OSPE*:** Objective Structured Practical Exam
WE**:** Writing Exam
CE: Committee Exam
FE: Final Exam
IE: Incomplete Exam
pts: Points

28 out of 192 final exam questions will be from Committee III; 4 pts will be added from the scientific project report to the final grade, completing the points to 100. (Each Final Exam Question is worth 0.5 pts)
14 out of 96 incomplete exam questions will be from Committee III; 4 pts will be added from the scientific project report to the final grade, completing the points to 100. (Each Incomplete Exam Question is worth 1 pt)

PHASE II I. WEEK	COMMITTEE III	ENDOCRINE and UROGENITAL SYSTEMS	
DAY	**HOUR**	**SUBJECT**	**LECTURER**
29-Dec-2014	09.00-09.50	Body Fluids and Functions of Kidneys	B. Yılmaz
MONDAY	10.00-10.50	Micturition	B. Yılmaz
	11.00-11.50	Introduction to urinary system and Kidneys	I. Siatitsas
	12.00-12.50	Ureter Urinary Bladder and Urethra	I. Siatitsas
	13.00-13.50		
	14.00-14.50	Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors	İ. Özden
	15.00-15.50	Hormones of Hypothalamus and Pituitary	İ. Özden
	16.00-16.50	**LAB:** Kidneys, Ureters, Urinary Bladder, and Urethra Gr. A	ANATOMY
	17.00-17.50	**LAB:** Kidneys, Ureters, Urinary Bladder, and Urethra Gr. B	ANATOMY
30-Dec-2014	09.00-09.50	Urine Formation and Renal Blood Flow	B. Yılmaz
TUESDAY	10.00-10.50	Urine Formation and Renal Blood Flow	B. Yılmaz
	11.00-11.50	Anatomy of the endocrine system	K. Yücel
	12.00-12.50	Anatomy and Clinical Anatomy of the endocrine system	K. Yücel
	13.00-13.50		
	14.00-14.50	**LAB:** Glomerular Filtration (Interactive Simulation) **Gr A**	PHYSIOLOGY
	15.00-15.50	**LAB:** Glomerular Filtration (Interactive Simulation) **Gr A**	PHYSIOLOGY
	16.00-16.50	**LAB:** Glomerular Filtration (Interactive Simulation) **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Glomerular Filtration (Interactive Simulation) **Gr B**	PHYSIOLOGY
31-Dec-2014	09.00-09.50	Urine Formation: Tubular Processing	B. Yılmaz
WEDNESDAY	10.00-10.50	Urine Formation: Tubular Processing	B. Yılmaz
	11.00-11.50	**LAB : Gr A**	BIOCHEMISTRY
	12.00-12.50	**LAB : Gr A**	BIOCHEMISTRY
	13.00-13.50	**LAB : Gr A**	BIOCHEMISTRY
	14.00-14.50		
	15.00-15.50	Independent Study Hours	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
1-Jan-2015 **THURSDAY**		**NEW YEAR HOLIDAY**	
2-Jan-2015	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Independent Study Hours	
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	Independent Study Hours	
	15.00-15.50	Independent Study Hours	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	

II. WEEK

DAY	HOUR	SUBJECT	LECTURER
5-Jan-2015	09.00-09.50	Mechanisms of Hormone Actions, Intracellular and Cell Surface Receptors	İ. Özden
MONDAY	10.00-10.50	Hormones of Hypothalamus and Pituitary	İ. Özden
	11.00-11.50	Fluid and Electrolyte Balance	B. Yılmaz
	12.00-12.50	Fluid and Electrolyte Balance	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Histology of Urinary System; Kidney; Nephron	A.Cumbul
	15.00-15.50	Histology of Urinary System; Kidney; Tubular System	A.Cumbul
	16.00-16.50	**LAB:** Glomerular Filtration (Interactive Simulation) **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Glomerular Filtration (Interactive Simulation) **Gr C**	PHYSIOLOGY
6-Jan-2015	09.00-09.50	Regulation of Acid-Base Balance	B. Yılmaz
TUESDAY	10.00-10.50	Regulation of Acid-Base Balance	B. Yılmaz
	11.00-11.50	Hormones of Hypothalamus and Pituitary	İ. Özden
	12.00-12.50	Hormones of Hypothalamus and Pituitary	İ. Özden
	13.00-13.50		
	14.00-14.50	**LAB : Gr B**	BIOCHEMISTRY
	15.00-15.50	**LAB : Gr B**	BIOCHEMISTRY
	16.00-16.50	**LAB : Gr B**	BIOCHEMISTRY
	17.00-17.50	Independent Study Hours	
7-Jan-2015	09.00-09.50	Introduction to Endocrinology	B. Yılmaz
WEDNESDAY	10.00-10.50	Pituitary Gland and Hypothalamic Control	B. Yılmaz
	11.00-11.50	Hormones of Hypothalamus and Pituitary	İ. Özden
	12.00-12.50	Hormones of Hypothalamus and Pituitary	İ. Özden
	13.00-13.50		
	14.00-14.50	Evidence Based Approach in Scientific Research	G. Yanıkkaya Demirel
	15.00-15.50	Evidence Based Approach in Scientific Research	G. Yanıkkaya Demirel
	16.00-16.50	Histology of Urinary System; Excreatory Passage	A.Cumbul
	17.00-17.50	Histology of the Endocrine System; General Aspect	Ü. Uslu
8-Jan-2015	09.00-09.50	Hormones of Adrenal Cortex, Mineralocorticoids, Glucocorticoids	İ. Özden
THURSDAY	10.00-10.50	Hormones of Adrenal Cortex, Mineralocorticoids, Glucocorticoids	İ. Özden
	11.00-11.50	Physiology of Growth Hormone	B. Yılmaz
	12.00-12.50	Posterior Pituitary Hormones	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Histology of the Endocrine S. Hypophysis, Epiphysis	Ü. Uslu
	15.00-15.50	Histology of the Endocrine Sys. Thyroid & Parathyroid	Ü. Uslu
	16.00-16.50	Histology of the Endocrine Sys. Suprarenal Gl & Pancreas	Ü. Uslu
	17.00-17.50	Independent Study Hours	
9-Jan-2015	09.00-09.50	Thyroid Metabolic Hormones	B. Yılmaz
FRIDAY	10.00-10.50	Thyroid Metabolic Hormones	B. Yılmaz
	11.00-11.50	ICP Midterm Exam	
	12.00-12.50	ICP Midterm Exam	
	13.00-13.50		
	14.00-14.50	**LAB:** Metabolic Rate (Interactive Simulation) **Gr A**	PHYSIOLOGY
	15.00-15.50	**LAB:** Metabolic Rate (Interactive Simulation) **Gr A**	PHYSIOLOGY
	16.00-16.50	**LAB:** Metabolic Rate (Interactive Simulation) **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Metabolic Rate (Interactive Simulation) **Gr B**	PHYSIOLOGY

III. WEEK

DAY	HOUR	SUBJECT	LECTURER
12 -Jan-2015	09.00-09.50	Muscles and nerves of the pelvis	Y. Aydar
MONDAY	10.00-10.50	Muscles and nerves of the pelvis	Y. Aydar
	11.00-11.50	Thyroid Hormones	İ. Özden
	12.00-12.50	Thyroid Hormones	İ. Özden
	13.00-13.50		
	14.00-14.50	**LAB:** Metabolic Rate (Interactive Simulation) **Gr C**	PHYSIOLOGY
	15.00-15.50	**LAB:** Metabolic Rate (Interactive Simulation) **Gr C**	PHYSIOLOGY
	16.00-16.50	LAB: Muscles and nerves of the pelvis Gr. B	ANATOMY
	17.00-17.50	LAB: Muscles and nerves of the pelvis Gr. A	ANATOMY
13-Jan-2015	09.00-09.50	Independent Study Hours	
TUESDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	**LAB:** Anatomy of the endocrine system Gr. A	ANATOMY
	12.00-12.50	**LAB:** Anatomy of the endocrine system Gr. B	ANATOMY
	13.00-13.50		
	14.00-14.50	**LAB : Group C**	BIOCHEMISTRY
	15.00-15.50	**LAB : Group C**	BIOCHEMISTRY
	16.00-16.50	**LAB : Group C**	BIOCHEMISTRY
	17.00-17.50	Independent Study Hours	
14-Jan-2015	09.00-09.50	Insulin, Glucagon	İ. Özden
WEDNESDAY	10.00-10.50	Insulin, Glucagon	İ. Özden
	11.00-11.50	Male genital organs	Y. Aydar
	12.00-12.50	Male genital organs	Y. Aydar
	13.00-13.50		
	14.00-14.50	Insulin, Glucagon	İ. Özden
	15.00-15.50	Insulin, Glucagon	İ. Özden
	16.00-16.50	**LAB:** Male genital organs Gr. A	ANATOMY
	17.00-17.50	**LAB:** Male genital organs Gr. B	ANATOMY
15-Jan-2015	09.00-09.50	Regulation of Calcium & Phosphate Metabolism and Bone Formation	B. Yılmaz
THURSDAY	10.00-10.50	Regulation of Calcium & Phosphate Metabolism and Bone Formation	B. Yılmaz
	11.00-11.50	Hormones, Regulating Calcium Metabolism	İ. Özden
	12.00-12.50	PTH, Calcitonin, Calcitriol	İ. Özden
	13.00-13.50		
	14.00-14.50	Histology of the Male Genital System; Testis	A. Cumbul
	15.00-15.50	Histology of the Male Genital System; Excretory Passage	A. Cumbul
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
16-Jan-2015	09.00-09.50	Vitamins	İ. Özden
FRIDAY	10.00-10.50	Vitamins	İ. Özden
	11.00-11.50	**LAB:** Histology of Male & Female Reprod. Sys. **Gr B**	HISTOLOGY
	12.00-12.50	**LAB:** Histology of Male & Female Reprod. Sys. **Gr B**	HISTOLOGY
	13.00-13.50		
	14.00-14.50	**LAB:** Histology of Urinary & Endocrine System **Gr A**	HISTOLOGY
	15.00-15.50	**LAB:** Histology of Urinary & Endocrine System **Gr A**	HISTOLOGY
	16.00-16.50	**LAB:** Histology of Urinary & Endocrine System **Gr B**	HISTOLOGY
	17.00-17.50	**LAB:** Histology of Urinary & Endocrine System **Gr B**	HISTOLOGY

19 JANUARY, 2015 - 1 FEBRUARY, 2015 MIDTERM BREAK

IV. WEEK

DAY	HOUR	SUBJECT	LECTURER
2-Feb-2015	09.00-09.50	Histology of Female Genital System; Ovaries	A. Cumbul
MONDAY	10.00-10.50	Histology of Female Genital System; Conducting Part	A. Cumbul
	11.00-11.50	Female genital organs	I. Siatitsas
	12.00-12.50	Female genital organs	I. Siatitsas
	13.00-13.50		
	14.00-14.50	Vitamins	İ. Özden
	15.00-15.50	Vitamins	İ. Özden
	16.00-16.50	**LAB:** Female genital organs Gr. B	ANATOMY
	17.00-17.50	**LAB:** Female genital organs Gr. A	ANATOMY
3-Feb-2015	09.00-09.50	Adrenocortical Hormones	B. Yılmaz
TUESDAY	10.00-10.50	Adrenocortical Hormones	B. Yılmaz
	11.00-11.50	Perineum	K. Yücel
	12.00-12.50	Perineum	K. Yücel
	13.00-13.50		
	14.00-14.50	**LAB:** Dissection & Examination of Endocrine Gl. **Gr A**	PHYSIOLOGY
	15.00-15.50	**LAB:** Dissection & Examination of Endocrine Gl. **Gr A**	PHYSIOLOGY
	16.00-16.50	**LAB:** Dissection & Examination of Endocrine Gl. **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Dissection & Examination of Endocrine Gl. **Gr B**	PHYSIOLOGY
4-Feb-2015	09.00-09.50	Elements	İ. Özden
WEDNESDAY	10.00-10.50	Elements	İ. Özden
	11.00-11.50	Biology of Endocrine System	T. İsbir
	12.00-12.50	Biology of Endocrine System	T. İsbir
	13.00-13.50		
	14.00-14.50	Invited Speaker	
	15.00-15.50	Invited Speaker	
	16.00-16.50	LAB: Perineum Gr. A	ANATOMY
	17.00-17.50	LAB: Perineum Gr. B	ANATOMY
5-Feb-2015	09.00-09.50	Independent Study Hours	
THURSDAY	10.00-10.50	Development of Urinary System	Ü. Uslu
	11.00-11.50	Insulin, Diabetes Mellitus	B. Yılmaz
	12.00-12.50	Insulin, Diabetes Mellitus	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Independent Study Hours	
	15.00-15.50	Case Studies in Pelvis	K. Yücel
	16.00-16.50	**LAB** Dissection & Examination of Endocrine Gl. **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Dissection & Examination of Endocrine Gl. **Gr C**	PHYSIOLOGY
6-Feb-2015	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Independent Study Hours	
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	**CSL:** Bladder Catheterization Group II	H. Akan / Ö. Tanrıöver
	15.00-15.50	**CSL:** Bladder Catheterization Group II	H. Akan / Ö. Tanrıöver
	16.00-16.50	**CSL:** Bladder Catheterization Group II	H. Akan / Ö. Tanrıöver
	17.00-17.50	Independent Study Hours	

V. WEEK

DAY	HOUR	SUBJECT	LECTURER
9-Feb-2015	09.00-09.50	Elements	İ. Özden
MONDAY	10.00-10.50	Elements	İ. Özden
	11.00-11.50	Development of Genital System	U. Uslu
	12.00-12.50	Pineal Gland and Melatonin	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Male Reproductive Physiology	B. Yılmaz
	15.00-15.50	Male Reproductive Physiology	B. Yılmaz
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
10-Feb-2015	09.00-09.50	Female Reproductive Physiology	B. Yılmaz
TUESDAY	10.00-10.50	Female Reproductive Physiology	B. Yılmaz
	11.00-11.50	Development of Male Genital System and Anomalies	U. Uslu
	12.00-12.50	Development of Female Genital System and Anomalies	U. Uslu
	13.00-13.50		
	14.00-14.50	**LAB:** Histology of Male & Female Reprod. Sys. **Gr A**	HISTOLOGY
	15.00-15.50	**LAB:** Histology of Male & Female Reprod. Sys. **Gr A**	HISTOLOGY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
11-Feb-2015	09.00-09.50	Pregnancy and Lactation	B. Yılmaz
WEDNESDAY	10.00-10.50	Pregnancy and Lactation	B. Yılmaz
	11.00-11.50	Endocrine Disruptors	B. Yılmaz
	12.00-12.50		
	13.00-13.50	Biology of Sexual Differentiation and Development	T. İsbir
	14.00-14.50	Biology of Sexual Differentiation and Development	T. İsbir
	15.00-15.50	Independent Study Hours	
	16.00-16.50	**LAB:** DISCUSSION	HISTOLOGY
	17.00-17.50	**LAB:** DISCUSSION	HISTOLOGY
12-Feb-2015	09.00-09.50	Biology of Sexual Differentiation and Development	T. İsbir
THURSDAY	10.00-10.50	Biology of Sexual Differentiation and Development	T. İsbir
	11.00-11.50	Independent Study Hours	
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	**CSL:** Bladder Catheterization Group III	H. Akan / A. Akalın
	15.00-15.50	**CSL:** Bladder Catheterization Group III	H. Akan / A. Akalın
	16.00-16.50	**CSL:** Bladder Catheterization Group III	H. Akan / A. Akalın
	17.00-17.50	Independent Study Hours	
13-Feb-2015	09.00-09.50	**CSL:** Bladder Catheterization Group I	Ö.Tanrıöver/ H. Akan
FRIDAY	10.00-10.50	**CSL:** Bladder Catheterization Group I	Ö.Tanrıöver/ H. Akan
	11.00-11.50	**CSL:** Bladder Catheterization Group I	Ö.Tanrıöver/ H. Akan
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	Independent Study Hours	
	15.00-15.50	Independent Study Hours	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	

VI. WEEK

DAY	HOUR	SUBJECT
16-Feb-2015		**VI. WEEK (EXAM WEEK)**
	09.00-09.50	Independent Study Hours
MONDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
17-Feb-2015	09.00-09.50	Independent Study Hours
TUESDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
18-Feb-2015	09.00-09.50	Independent Study Hours
WEDNESDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
19-Feb-2015		**PRACTICAL EXAM**
THURSDAY		
20-Feb-2015		**THEORETICAL EXAM**
FRIDAY		

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

NERVOUS SYSTEM COMMITTEE IV
DISTRIBUTION of LECTURE HOURS
February 23 – April 3, 2015
COMMITTEE DURATION: 7 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MD 220	**BASIC MEDICAL SCIENCES II**	**125**	**32**	**147**
	DISCIPLINE			
	ANATOMY	42	2Grx15H	57
	BIOPHYSICS	14	0	14
	HISTOLOGY & EMBRYOLOGY	16	2Grx3H	19
	MEDICAL BIOLOGY	4	0	4
	PHARMACOLOGY	11	2H	13
	PHYSIOLOGY	36	3Grx12H	38
	SCIENTIFIC PROJECTS-II	2	0	2

MD 242	**INTRODUCTION TO CLINICAL PRACTICE- II**	3	12	15

IV. Coordination Committee	Head	Ece Genç, PhD Prof.
	Secretary	Burcu Şeker, PhD Assist. Prof.
	Member	Akif Maharramov, PhD Assist. Prof.
	Member	Alev Cumbul, PhD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE IV
NERVOUS SYSTEM
LECTURERS
February 23 – April 3, 2015

BASIC MEDICAL SCIENCES II	
DISCIPLINE	**FACULTY**
ANATOMY	Ioannis SIATITSAS, MD PhD Prof. Yüksel AYDAR, PhD Prof.* Kaan YÜCEL, MD PhD Assist. Prof. LAB: Sinem GERGIN, MD
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 İSBIR, PhD Prof.
PHARMACOLOGY	Ece GENÇ, PhD Prof. Ferda KALEAĞASIOĞLU, MD Assoc. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR KOÇAK, MD PhD Assist. Prof. Burcu ŞEKER, PhD Assist. Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMIREL, MD PhD Assoc. Prof.
INTRODUCTION TO CLINICAL PRACTICE- II	Güldal İZBIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assoc. Prof. A. Arzu AKALIN, MD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II
COMMITTEE IV
NERVOUS SYSTEM COMMITTEE

AIM and LEARNING OBJECTIVES

AIM

1. To convey basic knowledge on biophysical, biological, anatomical, embryological, histological, physiological and biochemical properties of nervous system,
2. To convey knowledge on histology and development of central and peripheral nervous system and special senses,
3. To convey knowledge on biological basics of vision, hearing and taste,
4. To convey basic knowledge about pharmacology,
5. To convey knowledge about the drugs effecting nervous system.

LEARNING OBJECTIVES

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

1.0. describe biophysical basis of nervous system.
2.0. describe biology of nervous system.
3.0. In nervous system;
  - 3.1. describe the anatomy of cerebrum, cerebellum, meninges, brain stem, cranial nerves and spinal cord,
  - 3.2. describe limbic and autonomic nervous system,
  - 3.3. describe the anatomy of structures forming eyes and ears,
  - 3.4. describe descending and ascending pathways,
  - 3.5. associate with adjacent tissue and organs,
  - 3.6. explain functional and clinical reflections.

4.0. For central and peripheral nervous system and special senses;
  - 4.1. classify embryological origins,
  - 4.2. explain developmental stages,
  - 4.3. describe histological properties.

5.0. explain nervous conduction, ion channels and intracellular, extracellular ion concentration differences.
6.0. describe neuron, neuroglia, neurotransmitters and nerve fibers.
7.0. explain the synthesis and inactivation of neurotransmitters.
8.0. describe the energy mechanisms of brain.
9.0. In the nervous system;
  - 9.1. explain parts and functions of brain cortex,
  - 9.2. describe sensorial transmission pathways and special senses,
  - 9.3. describe control of motor function (cortex, cerebellum, basal ganglions and brain stem),
  - 9.4. describe functions of hypothalamus.

10.0. explain the relationship of learning-memory with hippocampus.
11.0. For brain waves and reflexes;
  - 11.1. describe,
  - 11.2. explain how they are measured in clinics.

12.0. explain biochemical basics of vision, hearing and taste senses.
13.0. In drug metabolism;
  - 13.1. explain mechanisms and factors affecting absorption,
  - 13.2. explain mechanisms and factors affecting distribution,
  - 13.3. explain mechanisms and factors affecting excretion.
  - 13.4. For drug pharmacokinetics;
  - 13.5. explain clinical importance,

14.0. analyze examples.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

NERVOUS SYSTEM COMMITTEE IV

COMMITTEE EXAM ASSESSMENT TABLE

LEARNING OBJECTIVES	FACULTY DEPARTMENT	LECTURER / INSTRUCTOR	NUMBER OF QUESTIONS MCQ*			
			CE	FE	IE	TOTAL
3.0,12.0	ANATOMY	Dr. I. Siatitsas Dr. Y. Aydar Dr. K. Yücel	**31**	**14**	**7**	**52**
1	BIOPHYSICS	Dr. A. Maharramov	**9**	**4**	**2**	**15**
4	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu Dr. A. Cumbul	**6** **4**	**4** **1**	**2** **1**	**12** **6**
2	MEDICAL BIOLOGY	Dr. T.İsbir	**2**	**1**	**1**	**4**
13.0-14.0	PHARMACOLOGY	Dr. E. Genç Dr. F. Kaleağasıoğlu	**5** **1**	**2** **1**	**1**	**8** **2**
5.0-11.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Koçak Dr. B. Şeker	**22**	**12**	**5**	**39**
	SCIENTIFIC PROJECTS	Dr. G.Yanıkkaya Demirel	**-**	**-**	**-**	**-**
	TOTAL		**80**	**39#**	**19##**	**138**
LEARNING OBJECTIVES	**FACULTY DEPARTMENT**	**LECTURER / INSTRUCTOR**	**POINT OF QUESTIONS EMQ**, OSPE***, WE******			
			EMQ	**OSPE**	**WE**	**TOTAL (pts)**
3.0,12.0	ANATOMY	Dr. I. Siatitsas Dr. Y. Aydar Dr. K. Yücel	**2.5**	**7**	**-**	**9.5**
1	BIOPHYSICS	Dr. B. Güvenç Tuna	**2.5**	**-**	**-**	**2.5**
4	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu	**2.5**	**1**	**-**	**3.5**
13.0-14.0	PHARMACOLOGY	Dr. E. Genç	**-**	**1**	**-**	**1.0**
5.0-11.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Koçak Dr. B. Şeker	**2.5**	**1**	**-**	**3.5**

COMMITTEE ASSESSMENT TABLE DESCRIPTION

Total number of multiple choise questions is **80**, equal to **80** pts,
Each multiple choice question has a value equal to **1** pt,
Extending matching questions have value equal to **10** pts and this question type will only be used for the Committee Exam (CE).
MCQ*: Multiple Choice Question
EMQ:** Extending Matching Question
OSPE*:** Objective Structured Practical Exam
WE**:** Writing Exam
CE: Committee Exam
FE: Final Exam
IE: Incomplete Exam
pts: Points

39 out of 192 final exam questions will be from Committee IV; 4 pts will be added from the scientific project report to the final grade, completing the points to 100. (Each Final Exam Question is worth 0.5 pts)
19 out of 96 incomplete exam questions will be from Committee IV; 4 pts will be added from the scientific project report to the final grade, completing the points to 100. (Each Incomplete Exam Question is worth 1 pt)

PHASE II

I. WEEK		**NERVOUS SYSTEM**	**COMMITTEE IV**
DAY	**HOUR**	**SUBJECT**	**LECTURER**
23-Feb-2015	09.00-09.50	Introduction to Committee IV	
MONDAY	10.00-10.50	Introduction to neuroanatomy	K. Yücel
	11.00-11.50	Introduction to neuroanatomy	K. Yücel
	12.00-12.50		
	13.00-13.50	Organization of the Nervous System	B. Yılmaz
	14.00-14.50	Neuron and Neuroglia	B. Yılmaz
	15.00-15.50	Biophysical Modeling of Neurons & Synapses	B. Güvenç Tuna
	16.00-16.50	Biophysical Properties of Neuron Membrane & Ion Channels	B. Güvenç Tuna
	17.00-17.50	Independent Study Hour	
24-Feb-2015	09.00-09.50	Synapse and Neurotransmitters	B. Yılmaz
TUESDAY	10.00-10.50	Synapse and Neurotransmitters	B. Yılmaz
	11.00-11.50	Spinal cord	I. Siatitsas
	12.00-12.50	Spinal cord	I. Siatitsas
	13.00-13.50		
	14.00-14.50	Histology of Central Nervous System; Meninges	Ü. Uslu
	15.00-15.50	Histology of Central Nervous System; Brain	Ü. Uslu
	16.00-16.50	**LAB:** Spinal Cord Gr. B	ANATOMY
	17.00-17.50	**LAB:** Spinal Cord Gr. A	ANATOMY
25-Feb-2015	09.00-09.50	Peripheral Nervous System	B. Yılmaz
WEDNESDAY	10.00-10.50	Sensory Receptors and Pathways	B. Yılmaz
	11.00-11.50	Resting Membrane Potential. Ionic Balance Equations- (Nernst Equation, Goldman-Hodgkin Equation)	B. Güvenç Tuna
	12.00-12.50	Membrane Electrical Model: Impedance of Membrane, Gray Matter, White Matter and Cerebrospinal Fluid	B. Güvenç Tuna
	13.00-13.50		
	14.00-14.50	Histology of CNS; Cerebellum, Brain Stem	Ü. Uslu
	15.00-15.50	Histology of CNS; Spinal Cord, PNS	Ü. Uslu
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
26-Feb-2015	09.00-09.50	Biology of Nervous System	T. İsbir
THURSDAY	10.00-10.50	Biology of Nervous System	T. İsbir
	11.00-11.50	Cutaneous Senses	B. Yılmaz
	12.00-12.50	Cutaneous Senses	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Brainstem	I. Siatitsas
	15.00-15.50	Brainstem	I. Siatitsas
	16.00-16.50	Histology of Sensory Organs; Eye	Ü. Uslu
	17.00-17.50	Histology of Sensory Organs; Eye	Ü. Uslu
27-Feb-2015	09.00-09.50	Physiology of Pain	B. Yılmaz
FRIDAY	10.00-10.50	Physiology of Pain	B. Yılmaz
	11.00-11.50	Brainstem	I. Siatitsas
	12.00-12.50	**LAB:** Brainstem Gr. A	ANATOMY
	13.00-13.50		
	14.00-14.50	**LAB:** Brainstem Gr. B	ANATOMY
	15.00-15.50	**CSL:** Bladder Catheterization Group IV	H. Akan / A. Akalın
	16.00-16.50	**CSL:** Bladder Catheterization Group IV	H. Akan / A. Akalın
	17.00-17.50	**CSL:** Bladder Catheterization Group IV	H. Akan / A. Akalın

II. WEEK

DAY	HOUR	SUBJECT	LECTURER
02-March-2015	09.00-09.50	Cranial Nerves I-VI	I. Siatitsas
MONDAY	10.00-10.50	Cranial Nerves I-VI	I. Siatitsas
	11.00-11.50	Physiology of Hearing	B. Yılmaz
	12.00-12.50	Physiology of Hearing	B. Yılmaz
	13.00-13.50		
	14.00-14.50	**LAB:** Cranial Nerves I-VI Gr. B	ANATOMY
	15.00-15.50	**LAB:** Cranial Nerves I-VI Gr. A	ANATOMY
	16.00-16.50	**LAB:** Hearing Test **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Hearing Test **Gr A**	PHYSIOLOGY
03-March-2015	09.00-09.50	Cranial nerves VII-XII	I. Siatitsas
TUESDAY	10.00-10.50	Cranial Nerves VII-XII	I. Siatitsas
	11.00-11.50	Auditory System Biophysics and Functioning	B. Güvenç Tuna
	12.00-12.50	Waves, Energy, Intensity & Pressure of Sound Waves	B. Güvenç Tuna
	13.00-13.50		
	14.00-14.50	**LAB:** Histology of NS, SS, Skin **Gr A &** Physio. **Gr C**	HISTOLOGY
	15.00-15.50	**LAB:** Histology of NS, SS, Skin **Gr A &** Physio. **Gr C**	HISTOLOGY
	16.00-16.50	**LAB:** Hearing Test **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Hearing Test **Gr B**	PHYSIOLOGY
04-March-2015	09.00-09.50	Physiology of Vision	B. Şeker
WEDNESDAY	10.00-10.50	Physiology of Vision	B. Şeker
	11.00-11.50	LAB: Cranial nerves VII-XII Gr. A	ANATOMY
	12.00-12.50	LAB: Cranial nerves VII-XII Gr. B	ANATOMY
	13.00-13.50		
	14.00-14.50	Excitability, Rheobase (threshold), Chronaxie and their Importance in Evaluation of Excitability	B. Güvenç Tuna
	15.00-15.50	Brain Function and Electrical Activity-Electroencephalography. Biofeedback	B. Güvenç Tuna
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
05-March-2015	09.00-09.50	Physiology of Vision	B. Şeker
THURSDAY	10.00-10.50	Physiology of Vision	B. Şeker
	11.00-11.50	Diencephalon	K. Yücel
	12.00-12.50	Diencephalon	K. Yücel
	13.00-13.50		
	14.00-14.50	Asymmetrical Distribution & Transportation of Ions	B. Güvenç Tuna
	15.00-15.50	Asymmetrical Distribution & Transportation of Ions	B. Güvenç Tuna
	16.00-16.50	**LAB:** Diencephalon Gr. B	ANATOMY
	17.00-17.50	**LAB:** Diencephalon Gr. A	ANATOMY
06-March-2015	09.00-09.50	Telencephalon	K. Yücel
FRIDAY	10.00-10.50	Telencephalon	K. Yücel
	11.00-11.50	Functional areas in the brain	K. Yücel
	12.00-12.50	Histology of Sensory Organs; Ear	Ü. Uslu
	13.00-13.50		
	14.00-14.50	Histology of Skin	A. Cumbul
	15.00-15.50	Histology of Skin Appendage	A. Cumbul
	16.00-16.50	**LAB:** Telencephalon Gr. A	ANATOMY
	17.00-17.50	**LAB:** Telencephalon Gr. B	ANATOMY

III. WEEK

DAY	HOUR	SUBJECT	LECTURER
09-March-2015	09.00-09.50	Scope of Pharmacology	E. Genç
MONDAY	10.00-10.50	Development of Skin and Appendage	A. Cumbul
	11.00-11.50	**LAB:** Histology of NS, Spec.Sense, Skin **Gr B**	HISTOLOGY
	12.00-12.50	**LAB:** Histology of NS, Spec.Sense, Skin **Gr B**	HISTOLOGY
	13.00-13.50		
	14.00-14.50	Cerebellum	K. Yücel
	15.00-15.50	Cerebellum	K. Yücel
	16.00-16.50	**LAB:** Cerebellum Gr. B	ANATOMY
	17.00-17.50	**LAB:** Cerebellum Gr. A	ANATOMY
10-March-2015	09.00-09.50	Basal Ganglia	K. Yücel
TUESDAY	10.00-10.50	Basal Ganglia	K. Yücel
	11.00-11.50	Passage of Drugs Across Membranes, Absorption of Drugs	E. Genç
	12.00-12.50	Drug Administration Routes	E. Genç
	13.00-13.50		
	14.00-14.50	Visual Examination & Tests	PHYSIOLOGY
	15.00-15.50	Visual Examination & Tests	PHYSIOLOGY
	16.00-16.50	Visual Examination & Tests	PHYSIOLOGY
	17.00-17.50	Visual Examination & Tests	PHYSIOLOGY
11-March-2015	09.00-09.50	Chemical Senses: Taste and Smell	B. Yılmaz
WEDNESDAY	10.00-10.50	Chemical Senses: Taste and Smell	B. Yılmaz
	11.00-11.50	Ascending Pathways of the Central Nervous System	I. Siatitsas
	12.00-12.50	Ascending Pathways of the Central Nervous System	I. Siatitsas
	13.00-13.50	!	
	14.00-14.50	**LAB:** Basal ganglia Gr. A	ANATOMY
	15.00-15.50	**LAB:** Basal ganglia Gr. B	ANATOMY
	16.00-16.50	How to Prepare a Scientific Report	G. Yanıkkaya Demirel
	17.00-17.50	How to Prepare a Scientific Report	G. Yanıkkaya Demirel
12-March-2015	09.00-09.50	Descending Pathways of the Central Nervous System	I. Siatitsas
THURSDAY	10.00-10.50	Descending Pathways of the Central Nervous System	I. Siatitsas
	11.00-11.50	Development of CNS; General Aspect	Ü. Uslu
	12.00-12.50	Development of Central Nervous System; Brain	Ü. Uslu
	13.00-13.50		
	14.00-14.50	**CSL:** Intramuscular / Intradermal / Subcutan Injection Gr. I	H. Akan / A. Akalın
	15.00-15.50	**CSL:** Intramuscular / Intradermal / Subcutan Injection Gr. I	H. Akan / A. Akalın
	16.00-16.50	**CSL:** Intramuscular / Intradermal / Subcutan Injection Gr. I	H. Akan / A. Akalın
	17.00-17.50	Independent Study Hour	
13-March-2015	09.00-09.50	Spinal Reflexes	B. Yılmaz
FRIDAY	10.00-10.50	Vestibular System	B. Yılmaz
	11.00-11.50	**LAB:** White matter tracts of the CNS Gr. B	ANATOMY
	12.00-12.50	**LAB:** White matter tracts of the CNS Gr. B	ANATOMY
	13.00-13.50		
	14.00-14.50	**PHYSICIANS' DAY CEREMONIES**	
	15.00-15.50		
	16.00-16.50		
	17.00-17.50		
14-March-2015		**PHYSICIANS' DAY**	
SATURDAY			

IV. WEEK

DAY	HOUR	SUBJECT	LECTURER
16-March-2015	09.00-09.50	Motor Functions of the Spinal Cord	B. Yılmaz
MONDAY	10.00-10.50	Motor Functions of the Spinal Cord	B. Yılmaz
	11.00-11.50	**LAB:** White matter tracts of the CNS Gr. A	ANATOMY
	12.00-12.50	**LAB:** White matter tracts of the CNS Gr. A	ANATOMY
	13.00-13.50		
	14.00-14.50	Development of Central Nervous System; Mid and Hindbrain	Ü. Uslu
	15.00-15.50	Congenital Anomalies of Nervous System	Ü. Uslu
	16.00-16.50	**LAB:** Reflexes **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Reflexes **Gr B**	PHYSIOLOGY
17-March-2015	09.00-09.50	Functions of Cerebellum and Basal Ganglia for Motor Control	B. Yılmaz
TUESDAY	10.00-10.50	Functions of Cerebellum and Basal Ganglia for Motor Control	B. Yılmaz
	11.00-11.50	Taste and Smell Pathways	Y. Aydar
	12.00-12.50	Ventricles of the Brain	Y. Aydar
	13.00-13.50		
	14.00-14.50	Invited Speaker	
	15.00-15.50	Invited Speaker	
	16.00-16.50	**LAB:** Reflexes **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Reflexes **Gr A**	PHYSIOLOGY
18-March-2015	09.00-09.50	Cortical and Brain Stem Control of Motor Function	B. Yılmaz
WEDNESDAY	10.00-10.50	Cortical and Brain Stem Control of Motor Function	B. Yılmaz
	11.00-11.50	Meninges and vasculature of the brain	Y. Aydar
	12.00-12.50	Vasculature of the brain	Y. Aydar
	13.00-13.50		
	14.00-14.50	**LAB**: Meninges,vasculature and ventricles of the brain Gr. A	ANATOMY
	15.00-15.50	**LAB**: Meninges,vasculature and ventricles of the brain Gr. B	ANATOMY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
19-March-2015	09.00-09.50	Pharmaceutical Forms of Drug	E. Genç
THURSDAY	10.00-10.50	Drug Distribution	E. Genç
	11.00-11.50	**LAB:** Reflexes **Gr C**	PHYSIOLOGY
	12.00-12.50	**LAB:** Reflexes **Gr C**	PHYSIOLOGY
	13.00-13.50		
	14.00-14.50	Cerebral Cortex, Intellectual Functions of the Brain	B. Yılmaz
	15.00-15.50	Learning and Memory	B. Yılmaz
	16.00-16.50	Autonomic Nervous System	I. Siatitsas
	17.00-17.50	Autonomic Nervous System	I. Siatitsas
20-March-2015	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	**CSL:** Intramuscular / Intradermal / Subcutan Injection Gr. II	H. Akan / A. Akalın
	11.00-11.50	**CSL:** Intramuscular / Intradermal / Subcutan Injection Gr. II	H. Akan / A. Akalın
	12.00-12.50	**CSL:** Intramuscular / Intradermal / Subcutan Injection Gr. II	H. Akan / A. Akalın
	13.00-13.50		
	14.00-14.50	Drug Metabolism	E. Genç
	15.00-15.50	Drug Metabolism	E. Genç
	16.00-16.50	LAB: Autonomic Nervous System Gr. B	ANATOMY
	17.00-17.50	LAB: Autonomic Nervous System Gr. A	ANATOMY

V. WEEK

DAY	HOUR	SUBJECT		LECTURER
23-March-2015	09.00-09.50	Autonomic Nervous System		B. Yılmaz
MONDAY	10.00-10.50	Autonomic Nervous System		B. Yılmaz
	11.00-11.50	Limbic System		K. Yücel
	12.00-12.50	Limbic System		K. Yücel
	13.00-13.50			
	14.00-14.50	**LAB:** Galvanized Skin Response **Gr A**		PHYSIOLOGY
	15.00-15.50	**LAB:** Galvanized Skin Response **Gr A**		PHYSIOLOGY
	16.00-16.50	Clinical Anatomy of the Nervous System		I. Siatitsas
	17.00-17.50	Clinical Anatomy of the Nervous System		I. Siatitsas
24-March-2015	09.00-09.50	**LAB:** Limbic System Group A		ANATOMY
TUESDAY	10.00-10.50	**LAB:** Limbic System Group A		ANATOMY
	11.00-11.50	Functional Anatomy of the Nervous System		K. Yücel
	12.00-12.50			
	13.00-13.50	Limbic System and the Hypothalamus		B. Yılmaz
	14.00-14.50	Limbic System and the Hypothalamus		B. Yılmaz
	15.00-15.50	**LAB:** Galvanized Skin Response **Gr B**		PHYSIOLOGY
	16.00-16.50	**LAB:** Galvanized Skin Response **Gr B**		PHYSIOLOGY
	17.00-17.50	Independent Study Hours		
25-March-2015	09.00-09.50	Drug Excretion		E. Genç
WEDNESDAY	10.00-10.50	Drug Excretion		E. Genç
	11.00-11.50	Ion Currents Through Neuron Membrane & Action Potential Spreading		B. Güvenç Tuna
	12.00-12.50	Mathematical Description of Ion Current Kinetics		B. Güvenç Tuna
	13.00-13.50			
	14.00-14.50	**LAB:** Drug Metabolism		PHARMACOLOGY
	15.00-15.50	**LAB:** Drug Metabolism		PHARMACOLOGY
	16.00-16.50	**LAB:** Galvanized Skin Response **Gr C**		PHYSIOLOGY
	17.00-17.50	**LAB:** Galvanized Skin Response **Gr C**		PHYSIOLOGY
26-March-2015	09.00-09.50	States of Brain Activity-Sleep and Brain Waves		B. Şeker
THURSDAY	10.00-10.50	States of Brain Activity-Sleep and Brain Waves		B. Şeker
	11.00-11.50	Eye		I. Siatitsas
	12.00-12.50	Eye		I. Siatitsas
	13.00-13.50			
	14.00-14.50	**LAB:** Eye Gr. B		ANATOMY
	15.00-15.50	**LAB:** Eye Gr. A		ANATOMY
	16.00-16.50	**LAB:** Electroencephalography **Gr A**		PHYSIOLOGY
	17.00-17.50	**LAB:** Electroencephalography **Gr A**		PHYSIOLOGY
27-March-2015	09.00-09.50	Independent Study Hours		
FRIDAY	10.00-10.50	Visual Pathways		I. Siatitsas
	11.00-11.50	Development of Sensory Organs (Eye and Ear)		Ü. Uslu
	12.00-12.50	Development of Sensory Organs (Eye and Ear)		Ü. Uslu
	13.00-13.50			
	14.00-14.50	**CSL:** Intramuscular / Intradermal / Subcutan Injection	Gr. III	H. Akan / Ö. Tanrıöver
	15.00-15.50	**CSL:** Intramuscular / Intradermal / Subcutan Injection	Gr. III	H. Akan / Ö. Tanrıöver
	16.00-16.50	**CSL:** Intramuscular / Intradermal / Subcutan Injection	Gr. III	H. Akan / Ö. Tanrıöver
	17.00-17.50	Independent Study Hours		

VI. WEEK DAY	HOUR	SUBJECT	LECTURER
30-March-2015	09.00-09.50	Cerebrospinal Fluid and Brain Metabolism	B. Yılmaz
MONDAY	10.00-10.50	Cerebrospinal Fluid and Brain Metabolism	B. Yılmaz
	11.00-11.50	Ear	K. Yücel
	12.00-12.50	Ear	K. Yücel
	13.00-13.50		
	14.00-14.50	Auditory Pathways	K. Yücel
	15.00-15.50	Discussion	K. Yücel
	16.00-16.50	**LAB:** Electroencephalography **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Electroencephalography **Gr B**	PHYSIOLOGY
31-March-2015	09.00-09.50	Principles of X-Ray Imaging and Ultrasound in Medicine	B. Güvenç Tuna
TUESDAY	10.00-10.50	Magnetic Resonance Imaging & Computerized Tomography	B. Güvenç Tuna
	11.00-11.50	**LAB:** Ear Gr. B	ANATOMY
	12.00-12.50	**LAB:** Ear Gr. A	ANATOMY
	13.00-13.50		
	14.00-14.50	Dopamine and Drugs Effecting Dopaminergic System	E. Genç
	15.00-15.50	Serotonin and Drugs Effecting Serotonergic System of CNS	F. Kaleağasıoğlu
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
1-April-2015	09.00-09.50	Independent Study Hours	
WEDNESDAY	10.00-10.50	Biology of Nervous System	T. İsbir
	11.00-11.50	Biology of Nervous System	T. İsbir
	12.00-12.50	Independent Study Hours	
	13.00-13.50	Independent Study Hours	
	14.00-14.50		
	15.00-15.50		
	16.00-16.50	**LAB:** Electroencephalography **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Electroencephalography **Gr C**	PHYSIOLOGY
2-April-2015	09.00-09.50	**LAB:** Discussion of Histology Lab	HISTOLOGY
THURSDAY	10.00-10.50	**LAB:** Discussion of Histology Lab	HISTOLOGY
	11.00-11.50	Independent Study Hours	
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	**CSL:** Intramuscular/ Intradermal/ Subcutan Injection Gr IV	H. Akan / Ö. Tanrıöver
	15.00-15.50	**CSL:** Intramuscular/ Intradermal/ Subcutan Injection Gr IV	H. Akan / Ö. Tanrıöver
	16.00-16.50	**CSL:** Intramuscular/ Intradermal / Subcutan Injection Gr IV	H. Akan / Ö. Tanrıöver
	17.00-17.50	Independent Study Hours	
3-April-2015	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Independent Study Hours	
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	Independent Study Hours	
	15.00-15.50	Independent Study Hours	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	

06-April-2015		**VII. WEEK (EXAM WEEK)**
	09.00-09.50	Independent Study Hours
MONDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
07-April-2015	09.00-09.50	Independent Study Hours
TUESDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
08-April-2015	09.00-09.50	Independent Study Hours
WEDNESDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
9-April-2015		**PRACTICAL EXAM**
THURSDAY		
10-April-2015		**THEORETICAL EXAM**
FRIDAY		

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

TISSUE DAMAGE and NEOPLASM COMMITTEE V
DISTRIBUTION of LECTURE HOURS
April 13 - May 22, 2015
COMMITTEE DURATION: 6 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MD 220	**BASIC MEDICAL SCIENCES II**	**113**	**23**	**136**
	DISCIPLINE			
	HISTOLOGY & EMBRYOLOGY	2	0	2
	MEDICAL GENETICS	16	0	16
	MICROBIOLOGY	57	3Grx12H	69
	PATHOLOGY	15	5H	20
	PHARMACOLOGY	17	2Grx4H	21
	PHYSIOLOGY	4	3GrX2H	6
	SCIENTIFIC PROJECTS-II	2	0	2

MD 242	**INTRODUCTION TO CLINICAL PRACTICE- II**	0	8	8

V. Coordination Committee	Head	Ferda Özkan, MD Prof.
	Secretary	Burcu Şeker, PhD Assist. Prof.
	Member	Yeşim Gürol, MD Assoc. Prof.
	Member	Elif Vatanoğlu, MD PhD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE V
TISSUE DAMAGE and NEOPLASM
LECTURERS
April 13 - May 22, 2015

BASIC MEDICAL SCIENCES II	
DISCIPLINE	**FACULTY**
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof.
IMMUNOLOGY	Gülderen Yanıkkaya Demirel, MD PhD Assoc. Prof.
MICROBIOLOGY	Gülden ÇELIK, MD Prof. Yeşim GÜROL, MD Assoc. Prof. Çağatay ACUNER, MD Assoc. Prof.
MEDICAL GENETICS	Ayşegül KUŞKUCU, MD PhD Assist. Prof. Ömer FARUK BAYRAK, PhD Assoc. Prof.
PATHOLOGY	Ferda ÖZKAN, MD Assoc. Prof. Işın DOĞAN EKICI, MD Assoc. Prof.
PHARMACOLOGY	Ece GENÇ, PhD Prof. Ferda KALEAĞASIOĞLU, MD Assoc. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR KOÇAK, MD PhD Assist. Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMIREL, MD PhD Assoc. Prof.
INTRODUCTION TO CLINICAL PRACTICE- II	Güldal İZBIRAK, MD Assoc. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assoc. Prof. A. Arzu AKALIN, MD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE V
TISSUE DAMAGE and NEOPLASM

AIM and LEARNING OBJECTIVES

AIM

1. To convey knowledge on basic properties of biological, embryological, histological, physiological and biochemical properties of tissue damage and neoplasia
2. To convey knowledge about biological factors, mechanisms of action and their consequences.
3. To convey development mechanisms of inflammatory processes and neoplasia and their effects and consequences on organism.

LEARNING OBJECTIVES

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

1.0 explain inherited and non-inherited genetic mechanisms in neoplasia.
2.0 associate the relation with congenital abnormalities and developmental processes.
3.0 explain basics of sports physiology.
4.0 explain chemical structure of components and mechanisms of anabolism and catabolism in connective tissue.
5.0 list major transitional phases in bone cycle.
6.4. For human flora;
6.5. describe the flora,
6.6. explain its relation to clinical conditions.
7.0. describe properties of microorganisms causing disease .
8.0. list methods used inprotection from microorganisms.
9.0. explain inflammatory processes, termination pathways, effects on tissues and mechanisms for inducing diseases.
10.0. describe factors causing neoplasia, formation , mechanisms of occurrence, neoplastic diseases in organism, classification and staging of neoplasia.
11.0. distinguish mechanisms of actions of drugs.
12.0. analyze events developing in response to drug receptor interactions.
13.0. classify antimicrobials and their mechanisms of action.
14.0. describe resistance mechanisms and methods of antimicrobial resistance detection.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

TISSUE DAMAGE and NEOPLASM COMMITTEE V

COMMITTEE EXAM ASSESSMENT TABLE

LEARNING OBJECTIVES	FACULTY DEPARTMENT	LECTURER / INSTRUCTOR	NUMBER OF QUESTIONS MCQ*			
			CE	FE	IE	TOTAL
2	HISTOLOGY & EMBRYOLOGY	Dr. Ü. Uslu	1	1	-	2
	MEDICAL GENETICS	Dr. A. Kuşkucu	3	1	0	4
		Dr. Ö. F. Bayrak	8	4	2	14
6.0-8.0,13.0, 14.0	MICROBIOLOGY	Dr. G. Çelik	15	6	3	24
		Dr. Y. Gürol	15	6	3	24
		Dr. Ç. Acuner	14	5	3	22
1.0,9.0,10.0	PATHOLOGY	Dr. F. Özkan	6	3	1	10
		Dr. I. D. Ekici	5	2	1	8
11.0, 12.0	PHARMACOLOGY	Dr. E. Genç	8	4	2	14
		Dr. F. Kaleagasıoğlu	3	1	1	5
3	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Koçak	2	1	1	4
	SCIENTIFIC PROJECTS	Dr. G.Yanıkkaya Demirel	-	-	-	-
	TOTAL		80	34#	17##	131
LEARNING OBJECTIVES	**FACULTY DEPARTMENT**	**LECTURER / INSTRUCTOR**	**POINT OF QUESTIONS EMQ**, OSPE***, WE******			
			EMQ	OSPE	WE	TOTAL (pts)
2	MEDICAL GENETICS	Dr. A. Kuşkucu	2.5	-	-	2.5
6.0-8.0,13.0,14.0	MICROBIOLOGY	Dr. G. Çelik	2.5	5	-	7.5
1.0,9.0,10.0	PATHOLOGY	Dr. F. Özkan	2.5	2	-	4.5
11.0,12.0	PHARMACOLOGY	Dr. E. Genç	2.5	2	-	4.5
3	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Koçak	-	1	-	1.0

TABLE DESCRIPTION

Total number of multiple choice questions is **80**, equal to **80** pts,
Each multiple choice question has value equal to **1** pt,
Extending matching questions have value equal to **10** pts and this question type will only be used for the Committee Exam (CE).
MCQ*: Multiple Choice Question
EMQ:** Extending Matching Question
OSPE*:** Objective Structured Practical Exam
WE**:** Writing Exam
CE: Committee Exam
FE: Final Exam
IE: Incomplete Exam
pts: Points

[#] **34** out of 192 final exam questions will be from CommitteeV; 4 pts will be added from the scientific project report to the final grade, completing the points to 100. (Each Final Exam Question is worth 0.5 pts)
[##] 17 out of 96 incomplete exam questions will be from Committee V; 4 pts will be added from the scientific project report to the final grade, completing the points to 100. (Each Incomplete Exam Question is worth 1 pt)

PHASE II

I. WEEK		**TISSUE DAMAGE and NEOPLASM**	**COMMITTEE V**
DAY	**HOUR**	**SUBJECT**	**LECTURER**
13-April-2015	09.00-09.50	Introduction to Committee V	
MONDAY	10.00-10.50	Introduction to Medical Microbiology	G.Çelik
	11.00-11.50	Bacterial Classification	Y. Gürol
	12.00-12.50	Bacterial Classification	Y. Gürol
	13.00-13.50		
	14.00-14.50	Introduction to Viruses	G.Çelik
	15.00-15.50	Bacterial Pathogenesis	Ç. Acuner
	16.00-16.50	Bacterial Pathogenesis	Ç. Acuner
	17.00-17.50	Independent Study Hours	
14-April-2015	09.00-09.50	Introduction to Mycology	Y. Gürol
TUESDAY	10.00-10.50	Superficial/Subcutaneous Mycosis	Y. Gürol
	11.00-11.50	Gram Positive Cocci	G. Çelik
	12.00-12.50	Gram Positive Cocci	G. Çelik
	13.00-13.50		
	14.00-14.50	Bacterial Genetics	Ç. Acuner
	15.00-15.50	Bacterial Genetics	Ç. Acuner
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
15 -April-2015	09.00-09.50	Gram Negative Cocci	Y. Gürol
WEDNESDAY	10.00-10.50	Gram Negative Cocci	Y. Gürol
	11.00-11.50	Gram Positive Aerobic Bacilli	Y. Gürol
	12.00-12.50	Nonfermenters	G. Çelik
	13.00-13.50		
	14.00-14.50	Growth and Cultivation of Bacteria	Ç. Acuner
	15.00-15.50	Independent Study Hours	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
16-April-2015	09.00-09.50	Enteric Gram Negative Bacilli	Ç. Acuner
THURSDAY	10.00-10.50	Enteric Gram Negative Bacilli	Ç. Acuner
	11.00-11.50	Introduction to Medical Genetics	O.F.Bayrak
	12.00-12.50	Introduction to Medical Genetics	O.F. Bayrak
	13.00-13.50		
	14.00-14.50	**LAB: I** Principles and Procedures of Laboratory Safety	MICROBIOLOGY
	15.00-15.50	**LAB: I**	MICROBIOLOGY
	16.00-16.50	**LAB: I**	MICROBIOLOGY
	17.00-17.50	Independent Study Hours	
17-Apr-2015	09.00-09.50	Enteric Gram Negative Bacilli	Ç. Acuner
FRIDAY	10.00-10.50	DNA Viruses	G. Çelik
	11.00-11.50	DNA Viruses	G. Çelik
	12.00-12.50		
	13.00-13.50	How to Write a Scientific Article	G. Yanıkkaya Demirel
	14.00-14.50	How to Write a Scientific Article	G. Yanıkkaya Demirel
	15.00-15.50	**Lab: II** Collection, Storage and Transport of specimens	MICROBIOLOGY
	16.00-16.50	**Lab: II**	MICROBIOLOGY
	17.00-17.50	**Lab: II**	MICROBIOLOGY

II. WEEK

DAY	HOUR	SUBJECT	LECTURER
20-April-2015	09.00-09.50	Yersinia, Francisella, Pasteurella, Vibrio, Campylobacter, Spirochetes	Y. Gürol
MONDAY	10.00-10.50	Yersinia, Francisella, Pasteurella, Vibrio, Campylobacter, Spirochetes	Y. Gürol
	11.00-11.50	Mechanisms of Effect By Antibacterial Agents	Ç. Acuner
	12.00-12.50	Mechanisms of Effect By Antibacterial Agents	Ç. Acuner
	13.00-13.50		
	14.00-14.50	**LAB: III** Microscopy Methods in Diagnostic Microbiology	MICROBIOLOGY
	15.00-15.50	**LAB: III**	MICROBIOLOGY
	16.00-16.50	**LAB: III**	MICROBIOLOGY
	17.00-17.50	Independent Study Hours	
21-April-2015	09.00-09.50	DNA Viruses	G. Çelik
TUESDAY	10.00-10.50	Sterilization and Disinfection	Ç. Acuner
	11.00-11.50	Congenital Malformations and Teratology	Ü. Uslu
	12.00-12.50	Congenital Malformations and Teratology	Ü. Uslu
	13.00-13.50		
	14.00-14.50	Systemic Mycoses	Y. Gürol
	15.00-15.50	**LAB: IV** Culture Methods in Diagnostic Microbiology	MICROBIOLOGY
	16.00-16.50	**LAB: IV**	MICROBIOLOGY
	17.00-17.50	**LAB: IV**	MICROBIOLOGY
22-April-2015	09.00-09.50	Independent Study Hours	
THURSDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Independent Study Hours	
	12.00-12.50		
	13.00-13.50	Opportunistic Mycoses	Y. Gürol
	14.00-14.50	RNA Viruses	G. Çelik
	15.00-15.50	RNA Viruses	G. Çelik
	16.00-16.50	Anaerobic Bacteria	Ç. Acuner
	17.00-17.50	Anaerobic Bacteria	Ç. Acuner
23-April-2015		**NATIONAL HOLIDAY**	
THURSDAY			
24-April-2015	09.00-09.50	**CSL:** ICP- II Review Group I	H. Akan
FRIDAY	10.00-10.50	**CSL:** ICP- II Review Group I	H. Akan
	11.00-11.50	RNA Viruses	G. Çelik
	12.00-12.50	RNA Viruses	G. Çelik
	13.00-13.50		
	14.00-14.50	Opportunistic Mycoses	Y. Gürol
	15.00-15.50	**LAB: V** Identification of Methods in Diagnostic Microbiology	MICROBIOLOGY
	16.00-16.50	**LAB: V**	MICROBIOLOGY
	17.00-17.50	**LAB: V**	MICROBIOLOGY

III. WEEK

DAY	HOUR	SUBJECT	LECTURER
27-April-2015	09.00-09.50	Mycobacteria	Ç. Acuner
MONDAY	10.00-10.50	Sporozoons	Y. Gürol
	11.00-11.50	Sporozoons	Y. Gürol
	12.00-12.50		
	13.00-13.50	The Human Genome and Chromosomal Basis of Heredity	O.F. Bayrak
	14.00-14.50	Cytogenetics and Chromosomal Disorders	O.F. Bayrak
	15.00-15.50	Mycotoxins/Laboratory Methods of Mycology	Y. Gürol
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
28-April-2015	09.00-09.50	Introduction to Parasitology	Y. Gürol
TUESDAY	10.00-10.50	Aerobic Actinomycetes	Ç. Acuner
	11.00-11.50	RNA viruses	G. Çelik
	12.00-12.50	RNA viruses	G. Çelik
	13.00-13.50		
	14.00-14.50	Slow viruses	G. Çelik
	15.00-15.50	**LAB : VI** Microscopy and Culture Methods for Diagnosis in Mycobacteria	MICROBIOLOGY
	16.00-16.50	**LAB : VI**	MICROBIOLOGY
	17.00-17.50	**LAB : VI**	MICROBIOLOGY
29-April-2015	09.00-09.50	Viral Oncogenesis	G. Çelik
WEDNESDAY	10.00-10.50	Antiviral Agents	G. Çelik
	11.00-11.50	Patterns of Single Gene Inheritance	Ö. F. Bayrak
	12.00-12.50	Patterns of Single Gene Inheritance	Ö. F. Bayrak
	13.00-13.50		
	14.00-14.50	**LAB: VII** Antibacterial Susceptibility Testing for Bacteria	MICROBIOLOGY
	15.00-15.50	**LAB: VII**	MICROBIOLOGY
	16.00-16.50	**LAB: VII**	MICROBIOLOGY
	17.00-17.50	Independent Study Hours	
30-April-2015	09.00-09.50	Independent Study Hours	
THURSDAY	10.00-10.50	Vaccines	G. Çelik
	11.00-11.50	Mechanism of Drug Action 1	E. Genç
	12.00-12.50	Mechanism of Drug Action 2	E. Genç
	13.00-13.50		
	14.00-14.50	Tissue Damage by Eating Disorders and Diabetes Mellitus	F. Özkan
	15.00-15.50	Inflammation	F. Özkan
	16.00-16.50	**CSL:** ICP- II Review Group II	A. Akalın
	17.00-17.50	**CSL:** ICP- II Review Group II	A. Akalın
01-May-2015		**LABOR'S DAY**	
FRIDAY			

IV. WEEK

DAY	HOUR	SUBJECT	LECTURER
04-May-2014	09.00-09.50	Helminthes	Y. Gürol
MONDAY	10.00-10.50	Helminthes	Y. Gürol
	11.00-11.50	Acute Inflammation	F. Özkan
	12.00-12.50	Acute Inflammation	F. Özkan
	13.00-13.50		
	14.00-14.50	**LAB : VIII** Immunoassays in Diagnostic Microbiology	MICROBIOLOGY
	15.00-15.50	**LAB : VIII**	MICROBIOLOGY
	16.00-16.50	**LAB : VIII**	MICROBIOLOGY
	17.00-17.50	Independent Study Hours	
05-May-2015	09.00-09.50	Mycoplasma, Chlamydia, Rickettsia	G. Çelik
TUESDAY	10.00-10.50	Mycoplasma, Chlamydia, Rickettsia	G. Çelik
	11.00-11.50	Helminthes	Y. Gürol
	12.00-12.50	Parasitology Laboratory Methods	Y. Gürol
	13.00-13.50		
	14.00-14.50	Wound Healing	F. Özkan
	15.00-15.50	**LAB: IX** Molecular methods in Diagnostic Microbiology	MICROBIOLOGY
	16.00-16.50	**LAB: IX**	MICROBIOLOGY
	17.00-17.50	**LAB: IX**	MICROBIOLOGY
06-May-2015	09.00-09.50	Arthropods	Y. Gürol
WEDNESDAY	10.00-10.50	Arthropods	Y. Gürol
	11.00-11.50	Chronic Inflammation	F. Özkan
	12.00-12.50	Chronic Inflammation	F. Özkan
	13.00-13.50		
	14.00-14.50	Invited Speaker	
	15.00-15.50	Invited Speaker	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
07-May-2015	09.00-09.50	Intro to Neoplasia and Biologic Behaviors of Neoplasm	I. Doğan Ekici
THURSDAY	10.00-10.50	Intro to Neoplasia and Biologic Behaviors of Neoplasm	I. Doğan Ekici
	11.00-11.50	Genetics of Complex Diseases	O.F. Bayrak
	12.00-12.50	Genetics of Complex Diseases	O.F. Bayrak
	13.00-13.50		
	14.00-14.50	**LAB: X** Mycology	MICROBIOLOGY
	15.00-15.50	**LAB: X**	MICROBIOLOGY
	16.00-16.50	**LAB: X**	MICROBIOLOGY
	17.00-17.50	Independent Study Hours	
08-May-2015	09.00-09.50	**CSL:** ICP- II Review Group III	G. İzbırak
FRIDAY	10.00-10.50	**CSL:** ICP- II Review Group III	G. İzbırak
	11.00-11.50	Histogenesis and Nomenclature	I. Doğan Ekici
	12.00-12.50	Histogenesis and Nomenclature	I. Doğan Ekici
	13.00-13.50		
	14.00-14.50	**LAB:** Inflammation	PATHOLOGY
	15.00-15.50	**LAB:** Inflammation	PATHOLOGY
	16.00-16.50	**LAB:** Inflammation	PATHOLOGY
	17.00-17.50	Independent Study Hours	

V. WEEK

DAY	HOUR	SUBJECT	LECTURER
11-May-2015	09.00-09.50	Cancer Genetics and Genomics	O.F. Bayrak
MONDAY	10.00-10.50	Cancer Genetics and Genomics	O.F. Bayrak
	11.00-11.50	Post Receptor Events and Second Messengers	E. Genç
	12.00-12.50	Factors Influencing Drug Action in Individuals	E. Genç
	13.00-13.50		
	14.00-14.50	General Principles of Antimicrobial Chemotherapy	F. Kaleağasıoğlu
	15.00-15.50	**LAB: XI** Parasitology	MICROBIOLOGY
	16.00-16.50	**LAB: XI**	MICROBIOLOGY
	17.00-17.50	**LAB: XI**	MICROBIOLOGY
12-May-2015	09.00-09.50	Antiseptics and Disinfectants	E. Genç
TUESDAY	10.00-10.50	General Principles of Cancer Chemotherapy	F. Kaleağasıoğlu
	11.00-11.50	Pharmacogenetics & Pharmacogenomics	E. Genç
	12.00-12.50	Pharmacogenetics & Pharmacogenomics	E. Genç
	13.00-13.50		
	14.00-14.50	Oncogenesis, Incidence and Distribution of Cancer	I. Doğan Ekici
	15.00-15.50	Oncogenesis, Incidence and Distribution of Cancer	I. Doğan Ekici
	16.00-16.50	**LAB** Efficacy and Potency Concepts	PHARMACOLOGY
	17.00-17.50	**LAB** Efficacy and Potency Concepts	PHARMACOLOGY
13-May-2015	09.00-09.50	Developmental Genetics and Birth Defects	A. Ç. Kuşkucu
WEDNESDAY	10.00-10.50	Developmental Genetics and Birth Defects	A. Ç. Kuşkucu
	11.00-11.50	Sports Physiology	B. Yılmaz
	12.00-12.50	Sports Physiology	B. Yılmaz
	13.00-13.50		
	14.00-14.50	**LAB:** Exercise and Metabolism, **Gr B**	PHYSIOLOGY
	15.00-15.50	**LAB:** Exercise and Metabolism, **Gr B**	PHYSIOLOGY
	16.00-16.50	**LAB:** Exercise and Metabolism, **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Exercise and Metabolism, **Gr C**	PHYSIOLOGY
14-May-2015	09.00-09.50	Fetal and Neonatal Physiology	B. Yılmaz
THURSDAY	10.00-10.50	Fetal and Neonatal Physiology	B. Yılmaz
	11.00-11.50	Drug Toxicity 1	F. Kaleağasıoğlu
	12.00-12.50	Drug Toxicity 2	F. Kaleağasıoğlu
	13.00-13.50		
	14.00-14.50	**LAB MAKE-UP LAB**	MICROBIOLOGY
	15.00-15.50	**LAB**	MICROBIOLOGY
	16.00-16.50	**LAB**	MICROBIOLOGY
	17.00-17.50	Independent Study Hours	
15-May-2015	09.00-09.50	**CSL:** ICP- II Review Group IV	Ö. Tanrıöver
FRIDAY	10.00-10.50	**CSL:** ICP- II Review Group IV	Ö. Tanrıöver
	11.00-11.50	**LAB:** Exercise and Metabolism, **Gr A**	PHYSIOLOGY
	12.00-12.50	**LAB:** Exercise and Metabolism, **Gr A**	PHYSIOLOGY
	13.00-13.50		
	14.00-14.50	**LAB** Dose-response Effects, Agonists and Antagonists **Gr A**	PHARMACOLOGY
	15.00-15.50	**LAB** Dose-response Effects, Agonists and Antagonists **Gr B**	PHARMACOLOGY
	16.00-16.50	**LAB** Dose-response Effects, Agonists and Antagonists **Gr C**	PHARMACOLOGY
	17.00-17.50	Independent Study Hours	

VI. WEEK

DAY	HOUR	SUBJECT	LECTURER
20-May-2014	09.00-09.50	Histamine and Antihistamines	E. Genç
MONDAY	10.00-10.50	Vasoactive Peptides	E. Genç
	11.00-11.50	Molecular Basis of Genetic Diseases	Ö. F. Bayrak
	12.00-12.50	Tools of Human Molecular Genetics	Ö. F. Bayrak
	13.00-13.50		
	14.00-14.50	**LAB:** PHARMACOLOGY	PHARMACOLOGY
	15.00-15.50	**LAB:** PHARMACOLOGY	PHARMACOLOGY
	16.00-16.50	**LAB:** PHARMACOLOGY	PHARMACOLOGY
	17.00-17.50	Independent Study Hours	
19-May-2015		**NATIONAL HOLIDAY**	
TUESDAY			
20-May-2015	09.00-09.50	Eicosanoids 1	F. Kaleağasıoğlu
WEDNESDAY	10.00-10.50	Eicosanoids 2	F. Kaleağasıoğlu
	11.00-11.50	Biochemistry of the Connective Tissue	S. Öztezcan
	12.00-12.50	Biochemistry of the Bone Tissue	S. Öztezcan
	13.00-13.50		
	14.00-14.50	Treatment of Genetic Disease – Introduction to Gene Therapy	Ö. F. Bayrak
	15.00-15.50	Treatment of Genetic Disease – Introduction to Gene Therapy	Ö. F. Bayrak
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
21-May-2015	09.00-09.50	Grading and Staging of Cancer and Clinical Findings	I. Doğan Ekici
THURSDAY	10.00-10.50	Grading and Staging of Cancer and Clinical Findings	I. Doğan Ekici
	11.00-11.50	Introduction to Drug Development	F. Kaleağasıoğlu
	12.00-12.50	Development of Biopharmaceuticals	F. Kaleağasıoğlu
	13.00-13.50		
	14.00-14.50	**LAB** Neoplasia	PATHOLOGY
	15.00-15.50	**LAB** Neoplasia	PATHOLOGY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
22-May-2015	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Independent Study Hours	
	12.00-12.50	Independent Study Hours	
	13.00-13.50		
	14.00-14.50	Independent Study Hours	
	15.00-15.50	Independent Study Hours	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	

25-May-2015		**VII. WEEK (EXAM WEEK)**
	09.00-09.50	Independent Study Hours
MONDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
26-May-2015	09.00-09.50	Independent Study Hours
TUESDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
27-May-2015	09.00-09.50	Independent Study Hours
WEDNESDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours
28-May-2015	09.00-09.50	Independent Study Hours
THURSDAY	10.00-10.50	Independent Study Hours
	11.00-11.50	Independent Study Hours
	12.00-12.50	Independent Study Hours
	13.00-13.50	
	14.00-14.50	Independent Study Hours
	15.00-15.50	Independent Study Hours
	16.00-16.50	Independent Study Hours
	17.00-17.50	Independent Study Hours

May 29, 2015 FRIDAY	**THEORETICAL EXAM**
June 4-5, 2015 THURSDAY - FRIDAY	**MAKE-UP EXAM**
June 8-9, 2015 MONDAY, TUESDAY	**ICP-II MAKE-UP EXAM**
June 22, 2015 MONDAY	**FINAL EXAM**
June 23-24, 2015 TUESDAY	**ICP-II FINAL EXAM**
July 15, 2015 WEDNESDAY	**ICP-II INCOMPLETE EXAM**
July 23, 2015 THURSDAY	**INCOMPLETE EXAM**

Contact

Faculty Secretary :
Tel: +90 216 578 05 93

Dean Secretary:
Tel: +90 216 578 05 05 – 06
Fax: +90 216 578 05 75

Student Affairs :
Tel: 0216 578 06 86

Documents Affairs:
Tel: 0216 578 05 23

Ece Genç, PhD Prof. (Coordinator) 216 578 00 00 (1675) / egenc@yeditepe.edu.tr

Alev Cumbul, PhD Assist. Prof. (Co-Coordinator) 216 578 00 00 (1534) / alev.cumbul@yeditepe.edu.tr

Burcu Seker, PhD Assist. Prof. (Co-Coordinator) 216 578 00 00 (1533) / burcu.seker@yeditepe.edu.tr

Soner Doğan, PhD Assist. Prof. (Co-Coordinator) 216 578 00 00 (3086) / soner.dogan@yeditepe.edu.tr

Özlem Tanrıöver, MD, Assoc. Prof. (ICP-Coordinator) 216 578 0000 (3742)/ otanriover@yeditepe.edu.tr

A. Arzu Akalın, MD, Assist. Prof. (ICP-Co-Coordinator) 216 578 0000 (1525)/ arzu.akalin@yeditepe.edu.tr

Address:

Yeditepe University Faculty of Medicine
İnönü Mah. Kayışdağı Caddesi,
26 Ağustos Yerleşimi,
34755 Ataşehir, İstanbul

Web: www.yeditepe.edu.tr
E-mail: tipfakdek@yeditepe.edu.tr

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE

İnönü Mah. Kayışdağı Caddesi,
26 Ağustos Yerleşimi,
34755 Ataşehir, İstanbul

+ 90 216 578 00 00

www.yeditepe.edu.tr
http://www.yeditepe.edu.tr/fakulteler/tip-fakultesi
tipfakdek@yeditepe.edu.tr