YEDİTEPE UNIVERSITY

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II
ACADEMIC PROGRAM BOOK
2013 - 2014

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ACADEMIC PROGRAM BOOK

2013 – 2014

Student's;

Name :……
Nr :……

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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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COORDINATION COMMITTEE
(TEACHING YEAR 2013 – 2014)

Bayram Yılmaz, PhD Prof. (Coordinator)
Soner Doğan, PhD Assist. Prof. (Co-Coordinator)
Alev Cumbul, PhD Assist. Prof. (Co-Coordinator)
Elif Vatanoğlu, MD PhD Assist. Prof. (Co-Coordinator)
Burcu Şeker, PhD Assist. Prof. (Co-Coordinator)

ICP-II COORDINATORS

Hülya Akan, MD Assoc. Prof.
Özlem Tanrıöver, MD Assist. Prof.

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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.

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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 2013 - 2014

Basic Medical Sciences II

COMMITTEE I CARDIOVASCULAR and RESPIRATORY SYSTEM (9 Weeks)
Beginning of Committee : September 9, 2013 Monday
End of Committee : November 8, 2013 Friday
Committee Exam : November 14-15, 2013 (Theoretical and Practical Exams)
Religious Holiday : October 14-20, 2013
National Holiday : October 28-29, 2013 Monday-Tuesday

COMMITTEE II GASTROINTESTINAL SYSTEM (6 Weeks)
Beginning of Committee : November 18, 2013 Monday
End of Committee : December 20, 2013 Friday
Committee Exam : December 26-27, 2013 (Theoretical and Practical Exams)

COMMITTEE III ENDOCRINE and UROGENITAL SYSTEMS (6 Weeks)
Beginning of Committee : December 30, 2013 Monday
End of Committee : February 14, 2014 Friday
Committee Exam : February 20-21, 2014 (Theoretical and Practical Exams)
New Year : January 1, 2014 Wednesday
Coordination Committee Meeting: January 2, 2014 Thursday (09.00-12.00)

MIDTERM BREAK : 20 JANUARY – 2 FEBRUARY, 2014

COMMITTEE IV NERVOUS SYSTEM (7 Weeks)
Beginning of Committee : February 24, 2014 Monday
End of Committee : April 4, 2014 Friday
Committee Exam : April 10-11, 2014 (Theoretical and Practical Exams)
Physicians' Day : March 14, 2014, Friday

COMMITTEE V TISSUE DAMAGE and NEOPLASM (7 Weeks)
Beginning of Committee : April 14, 2014 Monday
End of Committee : May 23, 2014 Friday
Committee Exam : May 30, 2014 (Theoretical Exam)
National Holiday : April 23, 2014, Wednesday
Coordination Committee Meeting: April 24, 2014 Thursday (09.00-12.00)
Labor's Day : May 1, 2014 Thursday
National Holiday : May 19, 2014 Monday

Make-up Exam : June 5-6, 2014 Thursday - Friday

Final Exam : June 23, 2014 Monday

Incomplete Exam : July 21, 2014 Monday

ICP II

Midterm Exam : January 3, 2014 (10.00 am) Friday

Make-up Exam : June 9-10, 2014 Monday, Tuesday

Final Exam : June 24, 2014 Tuesday

Incomplete Exam : July 22, 2014 Tuesday

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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	LAST NAME	ACADEMIC ADVISOR
NECAT İREM	ABDULHAYOĞLU	YRD. DOÇ. DR. ÜNAL USLU
ECE MELİS	ADALET	YRD. DOÇ. DR. ÜNAL USLU
DUYGU	ADIBELLİ	YRD. DOÇ. DR. ÜNAL USLU
GÖZDE	AKAN	YRD. DOÇ. DR. DENİZ KIRAÇ
MEHMET	AKAN	YRD. DOÇ. DR. DENİZ KIRAÇ
MEHMET	AŞTI	YRD. DOÇ. DR. DENİZ KIRAÇ
HASAN BERKE	ATALAY	YRD. DOÇ. DR. ÇİĞDEM KASPAR
HASAN BERK	BARIŞCIL	YRD. DOÇ. DR. ÇİĞDEM KASPAR
ABDULLAHI	BASHI ABSHIR	PROF. DR. BAYRAM YILMAZ
İREM	BAŞARAN	PROF. DR. BAYRAM YILMAZ
ELİF	BAYRAKTAR	PROF. DR. BAYRAM YILMAZ
GÖKTUĞ	BORA	YRD. DOÇ. DR. KAAN YÜCEL
OZAN	CENGİZ	YRD. DOÇ. DR. KAAN YÜCEL
NUR BÜKE	ÇABUK	PROF DR GÜLDEN ÇELİK
HARİKA	ÇAĞLAYAN	PROF DR GÜLDEN ÇELİK
AYLİN	ÇETİNKAYA	YRD. DOÇ. DR. AKİF MAHARRAMOV
ECE NUR	ÇINAR	YRD. DOÇ. DR. AKİF MAHARRAMOV
SINA	LEYLABADI DAEEOGHLI	YRD. DOÇ. DR. AKİF MAHARRAMOV
GAMZE BİLGE	DALGIN	PROF DR GÜLDEN ÇELİK
CEREN	DALKIRAN	PROF. DR. TURGAY İSBİR
BURAK	DEMİRCİ	PROF. DR. TURGAY İSBİR
ZEYNEP	DEMİRCİ	PROF. DR. TURGAY İSBİR
ALPER	DÜNKİ	YRD. DOÇ. DR. ELİF VATANOĞLU
EZGİ	ERDAĞ	YRD. DOÇ. DR. ELİF VATANOĞLU
DAMLA	ERDOĞAN	YRD. DOÇ. DR. ELİF VATANOĞLU
CİHAD	ERİM	YRD. DOÇ. DR. ELİF VATANOĞLU
EZEL	GEDİK	DOÇ. DR. YEŞİM GÜROL
MÜGE	GÜLER	DOÇ. DR. YEŞİM GÜROL
ECE EMİNE	GÜMÜŞKESEN	DOÇ. DR. YEŞİM GÜROL
GİZEM	GÜRBÜZ	DOÇ. DR. YEŞİM GÜROL
MERVE	GÜRKÖK	YRD. DOÇ. DR. ÇAĞATAY ACUNER
BERK	GÜRSOY	YRD. DOÇ. DR. ÇAĞATAY ACUNER
MERT	GÜRSOY	YRD. DOÇ. DR. ÇAĞATAY ACUNER
DİLAN	HAKYERİ	YRD. DOÇ. DR. ÇAĞATAY ACUNER
ZEYNEP	HÜSEYİNOĞLU	YRD. DOÇ. DR. BURCU SEKER
ALPERCAN	İLKER	YRD. DOÇ. DR. BURCU SEKER
ZEYNEPGÜL	İNKAYA	YRD. DOÇ. DR. BURCU SEKER
MUSTAFA BEYKAN	İSTANBULLU	YRD. DOÇ. DR. ALEV CUMBUL
UĞUR KAAN	KALEM	YRD. DOÇ. DR. ALEV CUMBUL
RANA SELİN	KARAMAN	YRD. DOÇ. DR. ALEV CUMBUL

SEVİM PIRIL	KARASU	YRD. DOÇ. DR. ALEV CUMBUL
SALİHA NAZLI	KARDAŞ	YRD. DOÇ. DR. ÖZLEM TANRIÖVER
REBECCA	KELLER	YRD. DOÇ. DR. ÖZLEM TANRIÖVER
İBRAHİM UMUR	KEPSUTLU	YRD. DOÇ. DR. ÖZLEM TANRIÖVER
ARTUN	KIRKER	YRD. DOÇ. DR. ÖZLEM TANRIÖVER
DOĞUŞ	KÖKARTTI	DOÇ. DR. HÜLYA AKAN
FATİH	KÖKDERE	DOÇ. DR. HÜLYA AKAN
BASEL	EL MASRİ	DOÇ. DR. HÜLYA AKAN
ABDISAMAD	MOHAMMED ISSACK	DOÇ. DR. HÜLYA AKAN
ÖZNUR	MOLLA	PROF. DR. İNCİ ÖZDEN
EMİRHAN	NAS	PROF. DR. İNCİ ÖZDEN
FATEMEH	MOHAMMADI NASER	PROF. DR. İNCİ ÖZDEN
MÜGE	ORAL	DOÇ. DR. JALE ÇOBAN
MUSTAFA FATİH	ÖĞÜNÇLÜ	DOÇ. DR. JALE ÇOBAN
PIRILTI	ÖZCAN	DOÇ. DR. JALE ÇOBAN
ESİN	ÖZÇELEBİ	YRD. DOÇ. DR. ARZU AKALIN
PINAR	ÖZEN	YRD. DOÇ. DR. ARZU AKALIN
BEYZA	ÖZER	YRD. DOÇ. DR. ARZU AKALIN
AYBERK	ÖZKAVAKLI	YRD. DOÇ. DR. ARZU AKALIN
BESTE	ÖZTÜRK	PROF. DR. ECE GENÇ
NEVA	ÖZTÜRKER	PROF. DR. ECE GENÇ
BAHAR	PEZÜKLİ	PROF. DR. ECE GENÇ
VIOLA	RIGOTTİ	PROF. DR. SERDAR ALPAN
EGEMEN	SAV	PROF. DR. SERDAR ALPAN
ONUR	SÖKÜCÜ	PROF. DR. SERDAR ALPAN
CEM	ŞAKAR	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
UĞUR	ŞEN	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
ENVER	ŞENBAYRAM	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
EMİR	ŞENOCAK	YRD. DOÇ. DR. AYŞEGÜL KUŞKUCU
BURÇİN	TAK	PROF. DR. FERDA ÖZKAN
RECEP	TEMEL	PROF. DR. FERDA ÖZKAN
ORHUN UFUK	TİPİ	PROF. DR. FERDA ÖZKAN
AHMET FATİH	USLU	DOÇ. DR. IŞIN DOĞAN EKİCİ
BERFİN GİZEM	USLU	DOÇ. DR. IŞIN DOĞAN EKİCİ
RAGİBE BÜŞRA	USTA	DOÇ. DR. IŞIN DOĞAN EKİCİ
MERİÇ	ÜLGEN	DOÇ. DR. IŞIN DOĞAN EKİCİ
FATMA TUĞÇE	YAVUZ	DOÇ. DR. GÜLDEREN Y. DEMİREL
EYLÜL	YERAL	DOÇ. DR. GÜLDEREN Y. DEMİREL
MEHMET İSKENDER	YILDIRIM	DOÇ. DR. GÜLDEREN Y. DEMİREL
CEMRE	YILMAZ	DOÇ. DR. GÜLDEREN Y. DEMİREL
HAZAL	YILDIZ	YRD. DOÇ. DR. SONER DOĞAN
MUSTAFA FADIL	YUNIS	YRD. DOÇ. DR. SONER DOĞAN
FATMA PINAR	ZİYADANOĞLU	YRD. DOÇ. DR. SONER DOĞAN
BURHAN	ZORLU	YRD. DOÇ. DR. SONER DOĞAN

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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.

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COMMITTEE I EXAMINATION

Cardiovascular and Respiratory Systems

QUESTION DISTRIBUTION TABLE

BASIC MEDICAL SCIENCES II DISCIPLINE	TOTAL NUMBER OF THEORETICAL EXAM QUESTIONS	Extended Matching Questions	VALUE OF PRACTICAL EXAM
Physiology	25	1	**5 pts**
Anatomy	18	1	**4 pts**
Immunology	13	1	**-**
Histology & Embryology	13	1	**4 pts**
Biochemistry	12	1	
Pathology	9		-
Biophysics	7		-
Medical Biology	3		-
TOTAL	**100**		**13 pts**

Total number of multiple choice questions is 100, equal to 74 pts.

Each theoretical question has equal value (0.74 pt.).

There will be 5 extended matching questions, equal to 10 pts.

Total of 100 points (13 pts for practical exam, 3 pts for Biostatistics and 84 pts for theoretical).

Biophysics, and Medical Biology will be named as OTHERS.

BASIC MEDICAL SCIENCES II DISCIPLINE	VALUE OF THE EXAM
Biostatistics	3 pts This exam will be given separately after the Committee exam

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COMMITTEE II EXAMINATION

Gastrointestinal System and Metabolism

QUESTION DISTRIBUTION TABLE

BASIC MEDICAL SCIENCES II DISCIPLINE	TOTAL NUMBER OF THEORETICAL EXAM QUESTIONS	Extended Matching Questions	VALUE OF PRACTICAL EXAM
Biochemistry	34	1	
Anatomy	22	1	**7 pts**
Physiology	17	1	-
Histology & Embryology	15	1	**4 pts**
Biophysics	8		-
Medical Biology	3		-
Immunology	1		-
TOTAL	**100**		**11 pts**

Total number of multiple choice questions is 100, equal to 76 pts.

Each theoretical question has equal value (0.76 pt.).

There will be 4 extended matching questions, equal to 10 pts.

Total of 100 points (11 pts for practical exam, 3 pts for Biostatistics and 86 pts for theoretical exam).

BASIC MEDICAL SCIENCES II DISCIPLINE	VALUE OF THE EXAM
Biostatistics	3 pts This exam will be given separately after the committee exam

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COMMITTEE III EXAMINATION

Endocrine and Urogenital Systems

QUESTION DISTRIBUTION TABLE

BASIC MEDICAL SCIENCES II DISCIPLINE	TOTAL NUMBER OF THEORETICAL EXAM QUESTIONS	Extended Matching Questions	VALUE OF PRACTICAL EXAM
Physiology	30	1	**5 pts**
Biochemistry	26	1	-
Histology & Embryology	20	1	**5 pts**
Anatomy	20	1	**4 pts**
Medical Biology	4		-
TOTAL	**100**		**14 pts**

Total number of multiple choice questions is 100, equal to 76 pts

Each theoretical question has equal value (0.76 pt.).

There will be 4 extended matching questions, equal to 10 pts.

Total of 100 points (14 pts for practical exam, and 86 pts for theoretical exam).

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COMMITTEE IV EXAMINATION

Nervous System

QUESTION DISTRIBUTION TABLE

BASIC MEDICAL SCIENCES II DISCIPLINE	TOTAL NUMBER OF THEORETICAL EXAM QUESTIONS	Extended Matching Questions	VALUE OF PRACTICAL EXAM
Anatomy	34	1	**7 pts**
Physiology	31	1	**5 pts**
Histology & Embryology	13	1	**3 pts**
Biophysics	10	1	**-**
Pharmacology	9	1	-
Medical Biology	2		-
Biochemistry	1		-
TOTAL	**100**		**15 pts**

Total number of multiple choice questions is 100, equal to 75 pts.

Each theoretical question has equal value (0.75 pt.).

There will be 5 extended matching questions, equal to 10 pts.

Total of 100 points (15 pts for practical exam, and 85 pts for theoretical exam).

Medical Biology and Biochemistry will be named as OTHERS.

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COMMITTEE V EXAMINATION

Tissue Damage and Neoplasm

QUESTION DISTRIBUTION TABLE

BASIC MEDICAL SCIENCES II DISCIPLINE	TOTAL NUMBER OF THEORETICAL EXAM QUESTIONS	Extended Matching Questions	VALUE OF PRACTICAL EXAM
Microbiology	48	1	**5 pts ***
Pathology	16	1	-
Pharmacology	16	1	-
Medical Genetics	14	1	-
Physiology	4		-
Histology & Embryology	1		-
Biochemistry	1		-
TOTAL	**100**		**5 pts**

Total number of multiple choice questions is 100, equal to 85 pts.

Each theoretical question has equal value (0.85 pt.).

There will be 4 extended matching questions, equal to 10 pts.

Total of 100 points (5 pts for practical exam, and 95 pts for theoretical exam).

***** Evaluation of laboratory performance

Physiology, Histology & Embryology and Biochemistry will be named as OTHERS.

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Final exam will be undertaken in 2 sessions: Morning (Final Examination I)

Afternoon (Final Examination II)

FINAL EXAMINATION I

QUESTION DISTRIBUTION TABLE

BASIC MEDICAL SCIENCES II DISCIPLINE	TOTAL NUMBER OF THEORETICAL EXAM QUESTIONS
Anatomy	34
Histology & Embryology	26
Pathology	10
Biophysics	8
Pharmacology	8
Medical Biology	5
Medical Genetics	5
TOTAL	**96**

FINAL EXAMINATION II

QUESTION DISTRIBUTION TABLE

BASIC MEDICAL SCIENCES II DISCIPLINE	TOTAL NUMBER OF THEORETICAL EXAM QUESTIONS
Physiology	33
Biochemistry	28
Microbiology	23
Immunology	6
Biostatistics	6
TOTAL	**96**

Total number of multiple choice questions in Final Examinations I & II will be 192.
Each question will have equal value (0.5 pt.).
Scientific projects report evaluation will be 4pts. (4%)

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INCOMPLETE EXAMINATION

QUESTION DISTRIBUTION TABLE

BASIC MEDICAL SCIENCES II DISCIPLINE	TOTAL NUMBER OF THEORETICAL EXAM QUESTIONS
Anatomy	22
Physiology	23
Biochemistry	18
Histology & Embryology	16
Microbiology	14
Pathology	7
Biophysics	6
Pharmacology	6
Immunology	4
Medical Biology	4
Medical Genetics	4
Biostatistics	4
TOTAL	**128**

Total number of multiple choice questions is 128, equal to 96 pts.

Each question will have equal value (0.75 pt.).

Scientific projects report evaluation will be 4 pts. (4%)

Total of 100 points (4 pts for scientific project report, and 96 pts for theoretical exam).

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COMMITTEE I
CARDIOVASCULAR and RESPIRATORY SYSTEMS
DISTRIBUTION of LECTURE HOURS
September 9 - November 8, 2013
COMMITTEE DURATION: 9 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MD 220	**BASIC MEDICAL SCIENCES II**	**188**	**85**	**273**
	DISCIPLINE			
	PHYSIOLOGY	47	42	89
	ANATOMY	29	22	51
	BIOCHEMISTRY	17	9	26
	HISTOLOGY & EMBRYOLOGY	23	10	33
	IMMUNOLOGY	25	0	25
	PATHOLOGY	16	2	18
	BIOSTATISTICS	10	0	10
	BIOPHYSICS	15	0	15
	MEDICAL BIOLOGY	4	0	4
	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	Çiğdem Kaspar, PhD Assist. Prof.
	Member	Alev Cumbul, 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	Yüksel AYDAR, PhD Prof.* Kaan YÜCEL, MD Assist. Prof. LAB: Sinem GERGİN, MD
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof. Serdar ÖZTEZCAN, MD Prof.
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assist. Prof. Alev CUMBUL, PhD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD PhD Assoc. Prof.
PATHOLOGY	Ferda ÖZKAN, MD Assoc. Prof. Işın DOĞAN EKİCİ, MD Assoc. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Burcu ŞEKER, PhD Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof.
BIOSTATISTICS	Çiğdem KASPAR, PhD Assist. Prof.
SCIENTIFIC PROJECTS	Gülderen YANIKKAYA DEMİREL, MD PhD Assoc. Prof.

INTRODUCTION TO CLINICAL PRACTICE- II	Güldal İZBIRAK, MD Assist. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assist. Prof. A. Arzu AKALIN, MD Assist. Prof.

YEDİTEPE UNIVERSITY
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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 joint, chewing muscles, 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;
  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,
22.2. describe mechanisms for cellular damage,
23.3. 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.

PHASE II COMMITTEE I CARDIOVASCULAR and RESPIRATORY SYSTEMS

I. WEEK

DAY	HOUR	SUBJECT	LECTURER
9-Sep-2013	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	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
10-Sep-2013	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** / Biochemistry **Gr C**	PHYSIOLOGY/ BIOCHEMISTRY
	17.00-17.50	**LAB:** Biochemistry **Gr C**	BIOCHEMISTRY
11-Sep-2013	09.00-09.50	Pectoral Muscles and the Thoracic Wall	ANATOMY
WEDNESDAY	10.00-10.50	Vessels and Nerves of the Thoracic Wall	ANATOMY
	11.00-11.50	Haemopoiesis	Ü. Uslu
	12.00-12.50	Histology of Lymph Organs; General Specification	Ü. Uslu
	13.00-13.50		
	14.00-14.50	**LAB:** Pectoral Muscles and the Thoracic Wall	ANATOMY
	15.00-15.50	**LAB:** Pectoral Muscles and the Thoracic Wall	ANATOMY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
12-Sep-2013	09.00-09.50	Thoracic Cavity, Mediastinum, and their Contents	ANATOMY
THURSDAY	10.00-10.50	Thoracic Cavity, Mediastinum, and their Contents	ANATOMY
	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** / Biochemistry **Gr A**	PHYSIOLOGY/ BIOCHEMISTRY
	16.00-16.50	**LAB:** Hematocrit Determination **Gr C** / Biochemistry **Gr A**	PHYSIOLOGY/ BIOCHEMISTRY
	17.00-17.50	**LAB:** Hematocrit Determination **Gr C** / Biochemistry **Gr A**	PHYSIOLOGY/ BIOCHEMISTRY
13-Sep-2013	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Histology and Dev. of Thymus and Lymph Node	Ü. Uslu
	11.00-11.50	Histology and Development of Spleen	Ü. Uslu
	12.00-12.50		
	13.00-13.50	Introduction to Immunology	G. Yanıkkaya Demirel
	14.00-14.50	Hematopoesis and Development of Immune System	G. Yanıkkaya Demirel
	15.00-15.50	**CSL*:** Hand Washing & Wearing Sterile Gloves Group I	G. İzbırak / Ö.Tanrıöver
	16.00-16.50	**CSL:** Hand Washing & Wearing Sterile Gloves Group I	G. İzbırak / Ö.Tanrıöver
	17.00-17.50	**CSL:** Hand Washing & Wearing Sterile Gloves Group I	G. İzbırak / Ö.Tanrıöver

*CSL: Clinical Skills Laboratory

II. WEEK

DAY	HOUR	SUBJECT	LECTURER
16-Sep-2013	09.00-09.50	Introduction to Cardiovascular System	ANATOMY
MONDAY	10.00-10.50	Pericardium and Outer Surface of the Heart	ANATOMY
	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 Outer Surface of the Heart	ANATOMY
	17.00-17.50	**LAB:** Pericardium and Outer Surface of the Heart	ANATOMY
17-Sep-2013	09.00-09.50	Chambers and Great Vessels of the Heart	ANATOMY
TUESDAY	10.00-10.50	Chambers and Great Vessels of the Heart	ANATOMY
	11.00-11.50	Synthesis of Hemoglobin	İ. Özden
	12.00-12.50	Disorders Concerning Hemoglobin Synthesis	İ. Özden
	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:** Chambers and Great Vessels of the Heart	ANATOMY
	17.00-17.50	**LAB:** Chambers and Great Vessels of the Heart	ANATOMY
18-Sep-2013	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
19-Sep-2013	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
20-Sep-2013	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Hematopoesis and Development of Immune System	G. Yanıkkaya Demirel
	11.00-11.50	Innate Immunity	G. Yanıkkaya Demirel
	12.00-12.50	Innate Immunity	G. Yanıkkaya Demirel
	13.00-13.50		
	14.00-14.50	**CSL:** Hand Washing and Wearing Sterile Gloves Group II	G. İzbırak / Ö.Tanrıöver
	15.00-15.50	**CSL:** Hand Washing and Wearing Sterile Gloves Group II	G. İzbırak / Ö.Tanrıöver
	16.00-16.50	**CSL:** Hand Washing and Wearing Sterile Gloves Group II	G. İzbırak / Ö.Tanrıöver
	17.00-17.50	Independent Study Hours	

III. WEEK

DAY	HOUR	SUBJECT	LECTURER
23-Sep-2013	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	Ü. Uslu
	12.00-12.50	Histology of Vascular System; Capillaries and Veins	Ü. Uslu
	13.00-13.50		
	14.00-14.50	Coronary Arteries	ANATOMY
	15.00-15.50	Cardiac Veins and Cardiac Conduction System	ANATOMY
	16.00-16.50	**LAB:** Electrocardiography **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Electrocardiography **Gr A**	PHYSIOLOGY
24-Sep-2013	09.00-09.50	Adaptive Immunity	G. Yanıkkaya Demirel
TUESDAY	10.00-10.50	Adaptive Immunity	G. Yanıkkaya Demirel
	11.00-11.50	**LAB:** Coronary Arteries and Veins	ANATOMY
	12.00-12.50	**LAB:** Coronary Arteries and Veins	ANATOMY
	13.00-13.50		
	14.00-14.50	Histology of Heart	Ü. Uslu
	15.00-15.50	Development of Circulatory System; General Aspect	Ü. Uslu
	16.00-16.50	Fetal Circulation	ANATOMY
	17.00-17.50	**LAB:** Cardiac Nerves and Conduction System	ANATOMY
25-Sep-2013	09.00-09.50	Antigen Antibody Interaction	G. Y. Demirel
WEDNESDAY	10.00-10.50	Antigen Antibody Interaction	G. Y. 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	**LAB:** Electrocardiography **Gr B**	PHYSIOLOGY
	15.00-15.50	**LAB:** Electrocardiography **Gr B**	PHYSIOLOGY
	16.00-16.50	**LAB:** Electrocardiography **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Electrocardiography **Gr C**	PHYSIOLOGY
26-Sep-2013	09.00-09.50	Immune Cell Trafficking	G. Yanıkkaya Demirel
THURSDAY	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	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
27-Sep-2013	09.00-09.50	Degradation of Hemoglobin	İ. Özden
FRIDAY	10.00-10.50	Degradation of Hemoglobin	İ. Özden
	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	Development of the Heart	Ü. Uslu
	15.00-15.50	**CSL:** Hand Washing and Wearing Sterile Gloves Group III	G. İzbırak / Ö.Tanrıöver
	16.00-16.50	**CSL:** Hand Washing and Wearing Sterile Gloves Group III	G. İzbırak / Ö.Tanrıöver
	17.00-17.50	**CSL:** Hand Washing and Wearing Sterile Gloves Group III	G. İzbırak / Ö.Tanrıöver

IV. WEEK

DAY	HOUR	SUBJECT	LECTURER
30-Sep-2013	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
1-Oct-2013	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	Lymphatic System and Circulation of Lymph	ANATOMY
	12.00-12.50	**LAB:** Lymphatic System and Circulation of Lymph	ANATOMY
	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	Surface Anatomy of the Scalp: Arteries, Nerves, and Lymphatics	ANATOMY
	17.00-17.50	Cervical Muscles and Triangles	ANATOMY
2-Oct-2013	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	Disorders, Concerning Hemoglobin Metabolism	İ. Özden
	12.00-12.50	Disorders, Concerning Hemoglobin Metabolism	İ. Özden
	13.00-13.50		
	14.00-14.50	Invited Seminar	
	15.00-15.50	Invited Seminar	
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
3-Oct-2013	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	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	Humoral Immunity	G. Yanıkkaya Demirel
	15.00-15.50	Humoral Immunity	G. Yanıkkaya Demirel
	16.00-16.50	**LAB:** ECG-II **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** ECG-II **Gr C**	PHYSIOLOGY
4-Oct-2013	09.00-09.50	Regulation of Blood Pressure	B. Yılmaz
FRIDAY	10.00-10.50	Regulation of Blood Pressure	B. Yılmaz
	11.00-11.50	Coronary Circulation	B. Yılmaz
	12.00-12.50		
	13.00-13.50	Signal Transduction in Immune System	G. Yanıkkaya Demirel
	14.00-14.50	**LAB:** ECG-II **Gr B**	PHYSIOLOGY
	15.00-15.50	**CSL:** Hand Washing and Wearing Sterile Gloves Group IV	G. İzbırak / Ö.Tanrıöver
	16.00-16.50	**CSL:** Hand Washing and Wearing Sterile Gloves Group IV	G. İzbırak / Ö.Tanrıöver
	17.00-17.50	**CSL:** Hand Washing and Wearing Sterile Gloves Group IV	G. İzbırak / Ö.Tanrıöver

V. WEEK

DAY	HOUR	SUBJECT	LECTURER
7-Oct-2013	09.00-09.50	Great Vessels of the Neck and Cervical Plexus	ANATOMY
MONDAY	10.00-10.50	Great Vessels of the Neck and Cervical Plexus	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: Great Vessels of the Neck and Cervical Plexus	ANATOMY
	15.00-15.50	LAB: Great Vessels of the Neck and Cervical Plexus	ANATOMY
	16.00-16.50	**LAB:** Blood Pressure **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Blood Pressure **Gr A**	PHYSIOLOGY
8-Oct-2013	09.00-09.50	Case Studies in Clinical Anatomy for Cardiovascular System	ANATOMY
TUESDAY	10.00-10.50	Case Studies in Clinical Anatomy for Cardiovascular System	ANATOMY
	11.00-11.50	Cellular Immunity	G. Yanıkkaya Demirel
	12.00-12.50	Cellular Immunity	G. Yanıkkaya Demirel
	13.00-13.50		
	14.00-14.50	Introduction to Respiratory System	ANATOMY
	15.00-15.50	Nasal Anatomy and Paranasal Sinuses	ANATOMY
	16.00-16.50	**LAB:** Blood Pressure **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Blood Pressure **Gr B**	PHYSIOLOGY
9-Oct-2013	09.00-09.50	Microcirculation and the Lymphatic System	B. Yılmaz
WEDNESDAY	10.00-10.50	Capillary Fluid Exchange, Interstitial Fluid, and Lymph Flow	B. Yılmaz
	11.00-11.50	Nasal Anatomy and Paranasal Sinuses	ANATOMY
	12.00-12.50	Nasal Anatomy and Paranasal Sinuses	ANATOMY
	13.00-13.50		
	14.00-14.50	Hemodynamics	F. Özkan
	15.00-15.50	Hemodynamics	F. Özkan
	16.00-16.50	**LAB:** Nasal Anatomy and Paranasal Sinuses	ANATOMY
	17.00-17.50	**LAB:** Nasal Anatomy and Paranasal Sinuses	ANATOMY
10-Oct-2013	09.00-09.50	Hypersensitivity Reactions, Allergy	G. Yanıkkaya Demirel
THURSDAY	10.00-10.50	Hypersensitivity Reactions, Allergy	G. Yanıkkaya Demirel
	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 Cardiovascular System	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
11-Oct-2013	09.00-09.50	Hemorheology	A. Maharramov
FRIDAY	10.00-10.50	Hemorheology	A. Maharramov
	11.00-11.50		
	12.00-12.50	Development of Veins and Anomalies	Ü. Uslu
	13.00-13.50	Histology of the Upper Respiratory Tracts	A. Cumbul
	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	**LAB:** Blood Pressure **Gr C**	PHYSIOLOGY

OCTOBER 14 - OCTOBER 20, 2013 RELIGIOUS HOLIDAY

VI. WEEK

DAY	HOUR	SUBJECT	LECTURER
21-Oct-2013	09.00-09.50	Cancer Immunology	G. Yanıkkaya Demirel
MONDAY	10.00-10.50	Cancer Immunology	G. Yanıkkaya Demirel
	11.00-11.50	The Pharynx and Larynx	ANATOMY
	12.00-12.50	The Pharynx and Larynx	ANATOMY
	13.00-13.50		
	14.00-14.50	Heart Valves and Heart Sounds	B. Yılmaz
	15.00-15.50	Heart Valves and Heart Sounds	B. Yılmaz
	16.00-16.50	**LAB:** The Pharynx and Larynx	ANATOMY
	17.00-17.50	**LAB:** The Pharynx and Larynx	ANATOMY
22-Oct-2013	09.00-09.50	The Trachea and Lungs	ANATOMY
TUESDAY	10.00-10.50	The Trachea and Lungs	ANATOMY
	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	Immunodeficiencies	G. Y. Demirel
	15.00-15.50	Immunodeficiencies	G. Y. Demirel
	16.00-16.50	**LAB:** The Trachea and Lungs	ANATOMY
	17.00-17.50	**LAB:** The Trachea and Lungs	ANATOMY
23-Oct-2013	09.00-09.50	Cardiac Failure	B. Yılmaz
WEDNESDAY	10.00-10.50	Circulatory Shock and Physiology of Its Treatment	B. Yılmaz
	11.00-11.50	Pleura and Diaphragm	ANATOMY
	12.00-12.50	Pleura and Diaphragm	ANATOMY
	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	**LAB:** Pleura and Diaphragm **/** Biostatistics **Gr B**	ANATOMY
	17.00-17.50	**LAB:** Pleura and Diaphragm **/** Biostatistics **Gr B**	ANATOMY
24-Oct-2013	09.00-09.50	Nervous Regulation of the Circulation	B. Yılmaz
THURSDAY	10.00-10.50	Nervous Regulation of the Circulation	B. Yılmaz
	11.00-11.50	Infection and Immunity	G. Y. Demirel
	12.00-12.50	Infection and Immunity	G. Y. Demirel
	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**	PHYSIOLOGY
	17.00-17.50	**LAB:** Heart Sounds **Gr B /** Biostatistics **Gr C**	PHYSIOLOGY
25-Oct-2013	09.00-09.50	Pulmonary Ventilation	B. Yılmaz
FRIDAY	10.00-10.50	Pulmonary Ventilation	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	Biophysics of Respiration	A.Maharramov
	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 / **LAB:** Heart Sounds Gr C	Ö.Tanrıöver./ H. Akan
	16.00-17.50	**CSL:** Vital Signs Group II	Ö.Tanrıöver./ H. Akan

VII. WEEK

DAY	HOUR	SUBJECT	LECTURER
28-Oct-2013 MONDAY		**NATIONAL HOLIDAY**	
29-Oct-2013 TUESDAY		**NATIONAL HOLIDAY**	
30-Oct-2013 WEDNESDAY	09.00-09.50	Pulmonary Circulation, Pulmonary Edema, Pleural Fluid	B. Yılmaz
	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**	PHYSIOLOGY
	17.00-17.50	**LAB:** Spirometry **Gr B**	PHYSIOLOGY
31-Oct-2013 THURSDAY	09.00-09.50	Diffusion of Blood Gases	B. Yılmaz
	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. Y. Demirel
	15.00-15.50	Immunological Laboratory Tests	G. Y. Demirel
	16.00-16.50	**LAB:** Spirometry **Gr C /** Biostatistics **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Spirometry **Gr C /** Biostatistics **Gr A**	PHYSIOLOGY
1-Nov-2013 FRIDAY	09.00-09.50	Transport of Blood Gases	B. Yılmaz
	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

VIII. WEEK

DAY	HOUR	SUBJECT	LECTURER
4-Nov-2013	09.00-09.50	Regulation of Respiration	B. Yılmaz
MONDAY	10.00-10.50	Regulation of Respiration	B. Yılmaz
	11.00-11.50	Head Development; Splanchocranium, Neurocranium	Ü. Uslu
	12.00-12.50	Development of Neck; Pharyngeal Arches & Anomalies	Ü. Uslu
	13.00-13.50		
	14.00-14.50	Hemorrhage and Thrombosis	F. Özkan
	15.00-15.50	Hemorrhage and Thrombosis	F. Özkan
	16.00-16.50	How to Write a Scientific Project	G. Y. Demirel
	17.00-17.50	How to Write a Scientific Project	G. Y. Demirel
5 -Nov-2013	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	Aviation, High-Altitude and Space Physiology	B. Yılmaz
	12.00-12.50	Physiology of Deep-Sea Diving and Hyperbaric Conditions	B. Yılmaz
	13.00-13.50		
	14.00-14.50	**LAB**: Visit to Hyperbaric Medicine Clinic & Seminar	PHYSIOLOGY
	15.00-15.50	**LAB**: Visit to Hyperbaric Medicine Clinic & Seminar	PHYSIOLOGY
	16.00-16.50	**LAB**: Visit to Hyperbaric Medicine Clinic	PHYSIOLOGY
	17.00-17.50	**LAB:** The Pharynx and Larynx	ANATOMY
6-Nov-2013	09.00-09.50	Case Studies in Clinical Anatomy for Respiratory System	ANATOMY
WEDNESDAY	10.00-10.50	Case Studies in Clinical Anatomy for Respiratory System	ANATOMY
	11.00-11.50	Development of the Respiratory Systems	A. Cumbul
	12.00-12.50	Congenital Anomalies of Respiratory Systems	A. Cumbul
	13.00-13.50		
	14.00-14.50	LAB Review for Cardiovascular and Respiratory Systems	ANATOMY
	15.00-15.50	LAB Review for Cardiovascular and Respiratory Systems	ANATOMY
	16.00-16.50	**LAB:** Histology of the CVS & Respiratory Systems **Gr B**	HISTOLOGY
	17.00-17.50	**LAB:** Histology of the CVS & Respiratory Systems **Gr B**	HISTOLOGY
7-Nov-2013	09.00-09.50	Test Hypotheses and Significance in Small Samples	Ç. Kaspar
THURSDAY	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	Modeling in Circulatory & Respiratory Systems	A.Maharramov
	15.00-15.50	Modeling in Circulatory & Respiratory Systems	A.Maharramov
	16.00-16.50	**LAB:** Histology of the CVS & Respiratory Systems **Gr A**	HISTOLOGY
	17.00-17.50	**LAB:** Histology of the CVS & Respiratory Systems **Gr A**	HISTOLOGY
8-Nov-2013	09.00-09.50	Ischemia and Infarction	F. Özkan
FRIDAY	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	

11-Nov-2013 MONDAY	**IX. WEEK (EXAM WEEK)**
12-Nov-2013 TUESDAY	
13-Nov-2013 WEDNESDAY	
14-Nov-2013 THURSDAY	**PRACTICAL EXAM**
15-Nov-2013 FRIDAY	**THEORETICAL EXAM BIOSTASTISTICS EXAM**

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE II
GASTROINTESTINAL SYSTEM and METABOLISM
DISTRIBUTION of LECTURE HOURS
November 18 – December 27, 2013
COMMITTEE DURATION: 6 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MD 220	**BASIC MEDICAL SCIENCES II**	**117**	***41***	**158**
	DISCIPLINE			
	BIOCHEMISTRY	36	9	45
	ANATOMY	20	16	36
	HISTOLOGY & EMBRYOLOGY	12	10	22
	PHYSIOLOGY	17	6	23
	BIOPHYSICS	14	0	14
	BIOSTATISTICS	8	0	8
	MEDICAL BIOLOGY	6	0	6
	IMMUNOLOGY	2	0	2
	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	Yüksel AYDAR, PhD. Prof.* Suat Ulukent, MD, PhD* Kaan YÜCEL, MD. Assist. Prof. LAB: Sinem GERGİN, MD.
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof.
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof.
BIOSTATISTICS	Çiğdem KASPAR, PhD Assist. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Burcu ŞEKER, PhD Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD, PhD Assoc. Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMİREL, MD, PhD Assoc. Prof.

MD 242	**INTRODUCTION TO CLINICAL PRACTICE- II**	Güldal İZBIRAK, MD Assist. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assist. 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, 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 channel 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.

PHASE II COMMITTEE II GASTROINTESTINAL SYSTEM and METABOLISM

I. WEEK

DAY	HOUR	SUBJECT	LECTURER
18-Nov-2013	09.00-09.50	Independent Study Hours	
MONDAY	10.00-10.50	Introduction to Committee II	
	11.00-11.50	Abdominal Muscles and Abdominal Wall	ANATOMY
	12.00-12.50	Vessels and Nerves of the Abdominal Wall	ANATOMY
	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 Muscles, Nerves, Vessels, and Inguinal Canal	ANATOMY
	17.00-17.50	**LAB:** Abdominal Muscles, Nerves, Vessels, and Inguinal Canal	ANATOMY
19-Nov-2013	09.00-09.50	Introduction to the Digestive System and the Oral Cavity	ANATOMY
TUESDAY	10.00-10.50	Introduction to the Digestive System and the Oral Cavity	ANATOMY
	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:** Introduction to the Digestive System and the Oral Cavity	ANATOMY
	17.00-17.50	**LAB:** Introduction to the Digestive System and the Oral Cavity	ANATOMY
20-Nov-2013	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	The Pharynx and the Esophagus	ANATOMY
	12.00-12.50	The Pharynx and the Esophagus	ANATOMY
	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:** The Pharynx and the Esophagus	ANATOMY
	17.00-17.50	**LAB:** The Pharynx and the Esophagus	ANATOMY
21-Nov-2013	09.00-09.50	Histology of Upper GI Tract; Oral Cavity	O. Alagöz
THURSDAY	10.00-10.50	Histology of Upper GI Tract; Tongue, Esophagus	O. Alagöz
	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	
22-Nov-2013	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	Ü. Uslu
	15.00-15.50	**CSL:** Nasogastric Administration Group I	Ö.Tanrıöver/A. Akalın
	16.00-16.50	**CSL:** Nasogastric Administration Group I	Ö.Tanrıöver/ A. Akalın
	17.00-17.50	**CSL:** Nasogastric Administration Group I	Ö.Tanrıöver/ A. Akalın

II. WEEK

DAY	HOUR	SUBJECT	LECTURER
25-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	Clinical and Topographic Anatomy of the Anterior Abdominal Wall	ANATOMY
	17.00-17.50	Abdominal Cavity and Peritoneum	ANATOMY
26-Nov-2013	09.00-09.50	Histology of Lower GIT; Small Intestine	Ü. Uslu
TUESDAY	10.00-10.50	Histology of Lower GIT; Large Intestine	Ü. Uslu
	11.00-11.50	Abdominal Cavity and Peritoneum	ANATOMY
	12.00-12.50	Abdominal Cavity and Peritoneum	ANATOMY
	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:** Abdominal Cavity & Peritoneum	ANATOMY
	17.00-17.50	**LAB:** Abdominal Cavity & Peritoneum	ANATOMY
27-Nov-2013	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
28-Nov-2013	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**	PHYSIOLOGY
	17.00-17.50	**LAB:** Physiology **Gr A /** Biostatistics **Gr C**	PHYSIOLOGY
29-Nov-2013	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
2-Dec-2013	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. Y. Demirel
	15.00-15.50	**LAB: Gr C**	BIOCHEMISTRY
	16.00-16.50	**LAB: Gr C** / Biostatistics **Gr B**	BIOCHEMISTRY
	17.00-17.50	**LAB: Gr C** / Biostatistics **Gr B**	BIOCHEMISTRY
3-Dec-2013	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	The Stomach and Small Intestine	ANATOMY
	12.00-12.50	The Stomach and Small Intestine	ANATOMY
	13.00-13.50		
	14.00-14.50	Glands Associated with the Digestive System; Salivary Glands	Ü. Uslu
	15.00-15.50	Glands Associated with the Digestive System; Liver	Ü. Uslu
	16.00-16.50	**LAB:** The Stomach and Small Intestine	ANATOMY
	17.00-17.50	**LAB:** The Stomach and Small Intestine	ANATOMY
4-Dec-2013	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	The Large Intestine, Their Vessels and Nerves	ANATOMY
	12.00-12.50	The Large Intestine, Their Vessels and Nerves	ANATOMY
	13.00-13.50		
	14.00-14.50	Invited Speaker	
	15.00-15.50	Invited Speaker	
	16.00-16.50	**LAB:** Physiology **Gr C /** Biostatistics **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Physiology **Gr C /** Biostatistics **Gr A**	PHYSIOLOGY
5-Dec-2013	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	
6-Dec-2013	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
9-Dec-2013	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	The Pancreas, Spleen, and Portal System	ANATOMY
	12.00-12.50	The Pancreas, Spleen, and Portal System	ANATOMY
	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:** The Large Intestine, Their Vessels and Nerves	Anatomy
	17.00-17.50	**LAB:** The Large Intestine, Their Vessels and Nerves	Anatomy
10-Dec-2013	09.00-09.50	The Liver and Gall Bladder	ANATOMY
TUESDAY	10.00-10.50	The Liver and Gall Bladder	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	**LAB:** The Liver and Gall Bladder	ANATOMY
	15.00-15.50	**LAB:** The Liver and Gall Bladder	ANATOMY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
11-Dec-2013	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	Interrelationship of Biology of Major Organs	T. İsbir
	15.00-15.50	Interrelationship of Biology of Major Organs	T. İsbir
	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
12-Dec-2013	09.00-09.50	Computer Applications of Tests of Significance	Ç. Kaspar
THURSDAY	10.00-10.50	Selection of Statistical Tests to Use in a Study	Ç. Kaspar
	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	**LAB:** Hist.of Gastrointestinal System II **Gr B**	HISTOLOGY
	17.00-17.50	**LAB:** Hist.of Gastrointestinal System II **Gr B**	HISTOLOGY
13-Dec-2013	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
16-Dec-2013	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:** Histology of Gastrointestinal System II **Gr A**	HISTOLOGY
	17.00-17.50	**LAB:** Histology of Gastrointestinal System II **Gr A**	HISTOLOGY
17-Dec-2013	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:** The Pancreas, Spleen, and Portal System	ANATOMY
	12.00-12.50	**LAB:** The Pancreas, Spleen, and Portal System	ANATOMY
	13.00-13.50		
	14.00-14.50	Case Studies in Clinical Anatomy for GI System	ANATOMY
	15.00-15.50	Case Studies in Clinical Anatomy for GI System	ANATOMY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
18-Dec-2013	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. Y. Demirel
	12.00-12.50	Mucosal Immunity	G. Y. 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	
19-Dec-2013		Independent Study Hours	
THURSDAY		Independent Study Hours	
20-Dec-2013		Independent Study Hours	
FRIDAY		Independent Study Hours	

23-Dec-2013 MONDAY	**VI. WEEK (EXAM WEEK)**
24-Dec-2013 TUESDAY	
25-Dec-2013 WEDNESDAY	
26-Dec-2013 THURSDAY	**PRACTICAL EXAM**
27-Dec-2013 FRIDAY	**THEORETICAL EXAM**

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE III
ENDOCRINE and UROGENITAL SYSTEMS
DISTRIBUTION of LECTURE HOURS
December 30, 2013 – February 21, 2014
COMMITTEE DURATION: 6 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MD 220	**BASIC MEDICAL SCIENCES II**	**93**	**49**	**142**
	DISCIPLINE			
	PHYSIOLOGY	30	18	48
	BIOCHEMISTRY	26	9	35
	HISTOLOGY & EMBRYOLOGY	15	10	25
	ANATOMY	14	12	26
	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	Elif Vatanoğlu, MD PhD Assist. Prof.
	Member	Alev Cumbul, PhD Assist. Prof.

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE III
ENDOCRINE and UROGENITAL SYSTEMS
LECTURERS
December 30, 2013 – February 21, 2014

BASIC MEDICAL SCIENCES II	
DISCIPLINE	**FACULTY**
ANATOMY	Yüksel AYDAR, PhD. Prof.* Kaan YÜCEL, MD Assist. Prof. LAB: Sinem GERGİN, MD.
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assist. Prof. Oya ALAGÖZ, MD Assist. Prof. Alev CUMBUL, PhD Assist. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Burcu ŞEKER, PhD. Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMİREL, MD PhD Assoc. Prof.
INTRODUCTION TO CLINICAL PRACTICE- II	Güldal İZBIRAK, MD Assist. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assist. 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.

PHASE II COMMITTEE III ENDOCRINE and UROGENITAL SYSTEMS

I. WEEK

DAY	HOUR	SUBJECT	LECTURER
30-Dec-2013	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	ANATOMY
	12.00-12.50	Introduction to Urinary System and Kidneys	ANATOMY
	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	Ureters, Urinary Bladder, Urethra, Their Vessels and Nerves	ANATOMY
	17.00-17.50	Ureters, Urinary Bladder, Urethra, Their Vessels and Nerves	ANATOMY
31-Dec-2013	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	**LAB:** Kidneys, Ureters, Urinary Bladder, and Urethra	ANATOMY
	12.00-12.50	**LAB:** Muscles, Vessels and Nerves of the Pelvis	ANATOMY
	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	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
1-Jan-2014		**NEW YEAR HOLIDAY**	
WEDNESDAY			
2-Jan-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		
	13.00-13.50	Urine Formation: Tubular Processing	B. Yılmaz
	14.00-14.50	Urine Formation: Tubular Processing	B. Yılmaz
	15.00-15.50	Histology of Urinary System; Kidney; Nephron	Ü. Uslu
	16.00-16.50	Histology of Urinary System; Kidney; Tubular System	Ü. Uslu
	17.00-17.50	Histology of Urinary System; Excreatory Passage	Ü. Uslu
3-Jan-2014	09.00-09.50		
FRIDAY	10.00-10.50	**ICP MIDTERM EXAM**	
	11.00-11.50		
	12.00-12.50		
	13.00-13.50	**LAB : Gr A**	BIOCHEMISTRY
	14.00-14.50	**LAB : Gr A**	BIOCHEMISTRY
	15.00-15.50	**LAB : Gr A**	BIOCHEMISTRY
	16.00-16.50	**LAB:** Glomerular Filtration (Interactive Simulation) **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Glomerular Filtration (Interactive Simulation) **Gr B**	PHYSIOLOGY

II. WEEK

DAY	HOUR	SUBJECT	LECTURER
6-Jan-2014	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 the Endocrine System; General Aspect and Hypophysis,	Ü. Uslu
	15.00-15.50	Histology of the Endocrine System; Hypophysis, Epiphysis	Ü. Uslu
	16.00-16.50	**LAB:** Glomerular Filtration (Interactive Simulation) **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Glomerular Filtration (Interactive Simulation) **Gr C**	PHYSIOLOGY
7-Jan-2014	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	
8-Jan-2014	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. Y. Demirel
	15.00-15.50	Evidence Based Approach in Scientific Research	G. Y. Demirel
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
9-Jan-2014	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 System; Thyroid and Parathyroid	Ü. Uslu
	15.00-15.50	Histology of the Endocrine System; Suprarenal Gl and Pancreas	Ü. Uslu
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
10-Jan-2014	09.00-09.50	Thyroid Metabolic Hormones	B. Yılmaz
FRIDAY	10.00-10.50	Thyroid Metabolic Hormones	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	**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
13 -Jan-2014	09.00-09.50	Male Genital Organs	ANATOMY
MONDAY	10.00-10.50	Male Genital Organs	ANATOMY
	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:** Male Genital Organs	ANATOMY
	15.00-15.50	**LAB:** Male Genital Organs	ANATOMY
	16.00-16.50	**LAB:** Metabolic Rate (Interactive Simulation) **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Metabolic Rate (Interactive Simulation) **Gr C**	PHYSIOLOGY
14-Jan-2014	09.00-09.50	Female Genital Organs	ANATOMY
TUESDAY	10.00-10.50	Female Genital Organs	ANATOMY
	11.00-11.50	**LAB:** Female Genital Organs	ANATOMY
	12.00-12.50	**LAB:** Female Genital Organs	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	
15-Jan-2014	09.00-09.50	Insulin, Glucagon	İ. Özden
WEDNESDAY	10.00-10.50	Insulin, Glucagon	İ. Özden
	11.00-11.50	Pelvic Vessels and Nerves	ANATOMY
	12.00-12.50	Pelvic Vessels and Nerves	ANATOMY
	13.00-13.50		
	14.00-14.50	Histology of the Male Genital System; Testis	O. Alagöz
	15.00-15.50	Histology of the Male Genital System; Excretory Passage	O. Alagöz
	16.00-16.50	**LAB:** Pelvic Vessels and Nerves	ANATOMY
	17.00-17.50	**LAB:** Pelvic Vessels and Nerves	ANATOMY
16-Jan-2014	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	Insulin, Glucagon	İ. Özden
	12.00-12.50	Insulin, Glucagon	İ. Özden
	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
17-Jan-2014	09.00-09.50	Vitamins	İ. Özden
FRIDAY	10.00-10.50	Vitamins	İ. Özden
	11.00-11.50	**LAB:** Histology of Male & Female Reproductive Sys. **Gr B**	HISTOLOGY
	12.00-12.50	**LAB:** Histology of Male & Female Reproductive Sys. **Gr B**	HISTOLOGY
	13.00-13.50		
	14.00-14.50	**CSL:** Bladder Catheterization Group I	Ö.Tanrıöver/ H. Akan
	15.00-15.50	**CSL:** Bladder Catheterization Group I	Ö.Tanrıöver/ H. Akan
	16.00-16.50	**CSL:** Bladder Catheterization Group I	Ö.Tanrıöver/ H. Akan
	17.00-17.50	Independent Study Hours	

20 JANUARY, 2014 - 2 FEBRUARY, 2014 MIDTERM BREAK

IV. WEEK

DAY	HOUR	SUBJECT	LECTURER
3-Feb-2014	09.00-09.50	Independent Study Hours	
MONDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Perineum and Ischiorectal Fossa	Anatomy
	12.00-12.50	Perineum and Ischiorectal Fossa	Anatomy
	13.00-13.50		
	14.00-14.50	Vitamins	İ. Özden
	15.00-15.50	Vitamins	İ. Özden
	16.00-16.50	**LAB:** Perineum and Ischiorectal Fossa	ANATOMY
	17.00-17.50	**LAB:** Perineum and Ischiorectal Fossa	ANATOMY
4-Feb-2014	09.00-09.50	Adrenocortical Hormones	B. Yılmaz
TUESDAY	10.00-10.50	Adrenocortical Hormones	B. Yılmaz
	11.00-11.50	Case Studies in Clinical Anatomy for Male and Female Genital Systems	ANATOMY
	12.00-12.50	Case Studies in Clinical Anatomy for Male and Female Genital Systems	ANATOMY
	13.00-13.50		
	14.00-14.50	Histology of Female Genital System; Ovaries	A. Cumbul
	15.00-15.50	Histology of Female Genital System; Conducting Part	A. Cumbul
	16.00-16.50	LAB Review for Urogenital System	ANATOMY
	17.00-17.50	LAB Review for Urogenital System	ANATOMY
5-Feb-2014	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	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
6-Feb-2014	09.00-09.50	Elements	İ. Özden
THURSDAY	10.00-10.50	Elements	İ. Özden
	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	**LAB:** Dissection and Examination of Endocrine Glands **Gr A**	PHYSIOLOGY
	15.00-15.50	**LAB:** Dissection and Examination of Endocrine Glands **Gr A**	PHYSIOLOGY
	16.00-16.50	**LAB:** Dissection and Examination of Endocrine Glands **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Dissection and Examination of Endocrine Glands **Gr B**	PHYSIOLOGY
7-Feb-2014	09.00-09.50	Independent Study Hours	
FRIDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	**LAB:** Dissection and Examination of Endocrine Glands **Gr C**	PHYSIOLOGY
	12.00-12.50	**LAB:** Dissection and Examination of Endocrine Glands **Gr C**	PHYSIOLOGY
	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
10-Feb-2014	09.00-09.50	Independent Study Hours	
MONDAY	10.00-10.50	Development of Urinary System	U. Uslu
	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	
11-Feb-2014	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 Reproductive Sys. **Gr A**	HISTOLOGY
	15.00-15.50	**LAB:** Histology of Male & Female Reproductive Sys. **Gr A**	HISTOLOGY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
12-Feb-2014	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	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
13-Feb-2014	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	**LAB:** DISCUSSION	HISTOLOGY
	12.00-12.50	**LAB:** DISCUSSION	HISTOLOGY
	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	
14-Feb-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	

VI. WEEK (EXAM WEEK)

17-Feb-2014 MONDAY	
18-Feb-2014 TUESDAY	
19-Feb-2014 WEDNEDAY	
20-Feb-2014 THURSDAY	**PRACTICAL EXAM**
21-Feb-2014 FRIDAY	**THEORETICAL EXAM**

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE IV
NERVOUS SYSTEM
DISTRIBUTION of LECTURE HOURS
February 24 – April 11, 2014
COMMITTEE DURATION: 7 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MD 220	**BASIC MEDICAL SCIENCES II**	**127**	**65**	**192**
	DISCIPLINE			
	ANATOMY	43	32	75
	PHYSIOLOGY	36	26	62
	BIOPHYSICS	14	0	14
	HISTOLOGY & EMBRYOLOGY	16	6	22
	PHARMACOLOGY	11	1	12
	MEDICAL BIOLOGY	4	0	4
	BIOCHEMISTRY	1	0	1
	SCIENTIFIC PROJECTS-II	2	0	2

MD 242	**INTRODUCTION TO CLINICAL PRACTICE- II**	6	12	18

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 24 – April 11, 2014

BASIC MEDICAL SCIENCES II	
DISCIPLINE	**FACULTY**
ANATOMY	Yüksel AYDAR, PhD Prof.* Kaan YÜCEL, MD Assist. Prof. LAB: Sinem GERGİN, MD
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assist. Prof. Alev CUMBUL, PhD Assist. Prof.
PHARMACOLOGY	Ece GENÇ, PhD Prof. Serdar ALPAN, MD, PhD Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Burcu ŞEKER, PhD Assist. Prof.
BIOCHEMISTRY	Serdar ÖZTEZCAN, MD Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMİREL, MD PhD Assoc. Prof.
INTRODUCTION TO CLINICAL PRACTICE- II	Güldal İZBIRAK, MD Assist. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assist. 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.

14.0. For drug pharmacokinetics;
- 14.1. explain clinical importance,
- 14.2. analyze examples.

PHASE II COMMITTEE IV NERVOUS SYSTEM

I. WEEK

DAY	HOUR	SUBJECT	LECTURER
24-Feb-2014	09.00-09.50	Introduction to Committee IV	
MONDAY	10.00-10.50	Introduction to the Neuroanatomy	ANATOMY
	11.00-11.50	Spinal cord	ANATOMY
	12.00-12.50	Spinal cord	ANATOMY
	13.00-13.50		
	14.00-14.50	Organization of the Nervous System	B. Yılmaz
	15.00-15.50	Neuron and Neuroglia	B. Yılmaz
	16.00-16.50	**LAB:** Spinal Cord	ANATOMY
	17.00-17.50	**LAB:** Spinal Cord	ANATOMY
25-Feb-2014	09.00-09.50	Synapse and Neurotransmitters	B. Yılmaz
TUESDAY	10.00-10.50	Synapse and Neurotransmitters	B. Yılmaz
	11.00-11.50	Brain Stem	ANATOMY
	12.00-12.50	Brain Stem	ANATOMY
	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:** Brain Stem	ANATOMY
	17.00-17.50	**LAB:** Brain Stem	ANATOMY
26-Feb-2014	09.00-09.50	Peripheral Nervous System	B. Yılmaz
WEDNESDAY	10.00-10.50	Sensory Receptors and Pathways	B. Yılmaz
	11.00-11.50	Biophysical Modeling of Neurons & Synapses	A. Maharramov
	12.00-12.50	Biophysical Properties of Neuron Membrane & Ion Channels	A. Maharramov
	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	
27-Feb-2014	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	Resting Membrane Potential. Ionic Balance Equations- (Nernst Equation, Goldman-Hodgkin Equation)	A. Maharramov
	15.00-15.50	Membrane Electrical Model: Impedance of Membrane, Gray Matter, White Matter and Cerebrospinal Fluid	A. Maharramov
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
28-Feb-2014	09.00-09.50	Physiology of Pain	B. Yılmaz
FRIDAY	10.00-10.50	Physiology of Pain	B. Yılmaz
	11.00-11.50	Histology of Sensory Organs; Eye	Ü. Uslu
	12.00-12.50	Histology of Sensory Organs; Eye	Ü. Uslu
	13.00-13.50		
	14.00-14.50	**CSL:** Bladder Catheterization Group IV	H. Akan / A. Akalın
	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	Independent Study Hours	

II. WEEK

DAY	HOUR	SUBJECT	LECTURER
3-Mar-2014	09.00-09.50	Cranial Nerves I-VI	ANATOMY
MONDAY	10.00-10.50	Cranial Nerves I-VI	ANATOMY
	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	ANATOMY
	15.00-15.50	**LAB:** Cranial Nerves I-VI	ANATOMY
	16.00-16.50	**LAB:** Hearing Test **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Hearing Test **Gr A**	PHYSIOLOGY
4-Mar-2014	09.00-09.50	Cranial Nerves VII-XII	ANATOMY
TUESDAY	10.00-10.50	Cranial Nerves VII-XII	ANATOMY
	11.00-11.50	Auditory System Biophysics and Functioning	A. Maharramov
	12.00-12.50	Waves, Energy, Intensity and Pressure of Sound Waves	A. Maharramov
	13.00-13.50		
	14.00-14.50	**LAB:** Histology of NS, Spec.Sense, Skin **Gr A &** Physiology **Gr C**	HISTOLOGY
	15.00-15.50	**LAB:** Histology of NS, Spec.Sense, Skin **Gr A &** Physiology **Gr C**	HISTOLOGY
	16.00-16.50	**LAB:** Hearing Test **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Hearing Test **Gr B**	PHYSIOLOGY
5-Mar-2014	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	ANATOMY
	12.00-12.50	**LAB:** Cranial Nerves VII-XII	ANATOMY
	13.00-13.50		
	14.00-14.50	Excitability, Rheobase (threshold), Chronaxie and their Importance in Evaluation of Excitability	A.Maharramov
	15.00-15.50	Brain Function and Electrical Activity-Electroencephalography. Biofeedback	A.Maharramov
	16.00-16.50	The Cerebellum	ANATOMY
	17.00-17.50	The Cerebellum	ANATOMY
6-Mar-2014	09.00-09.50	Physiology of Vision	B. Şeker
THURSDAY	10.00-10.50	Physiology of Vision	B. Şeker
	11.00-11.50	Asymmetrical Distribution & Transportation of Ions	A.Maharramov
	12.00-12.50	Asymmetrical Distribution & Transportation of Ions	A.Maharramov
	13.00-13.50		
	14.00-14.50	**LAB:** The Cerebellum	ANATOMY
	15.00-15.50	**LAB:** The Cerebellum	ANATOMY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
7-Mar-2014	09.00-09.50	Diencephalon: Thalamus, Pituitary and Pineal Glands	ANATOMY
FRIDAY	10.00-10.50	Diencephalon: Thalamus, Pituitary and Pineal Glands	ANATOMY
	11.00-11.50	Histology of Sensory Organs; Ear	Ü. Uslu
	12.00-12.50	Histology of Skin	A. Cumbul
	13.00-13.50	Histology of Skin Appendage	A. Cumbul
	14.00-14.50	**LAB:** Diencephalon: Thalamus, Pituitary and Pineal Glands	ANATOMY
	15.00-15.50	**LAB:** Diencephalon: Thalamus, Pituitary and Pineal Glands	ANATOMY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	

III. WEEK

DAY	HOUR	SUBJECT	LECTURER
10-Mar-2014	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	Telencephalon and Its Functional Areas	ANATOMY
	15.00-15.50	Telencephalon and Its Functional Areas	ANATOMY
	16.00-16.50	**LAB:** Telencephalon and Its Functional Areas	ANATOMY
	17.00-17.50	**LAB:** Telencephalon and Its Functional Areas	ANATOMY
11-Mar-2014	09.00-09.50	The Basal Ganglia	ANATOMY
TUESDAY	10.00-10.50	The Basal Ganglia	ANATOMY
	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
12-Mar-2014	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	**LAB:** The Basal Ganglia	ANATOMY
	12.00-12.50	**LAB:** The Basal Ganglia	ANATOMY
	13.00-13.50		
	14.00-14.50	Ascending Pathways of the Central Nervous System	ANATOMY
	15.00-15.50	Ascending Pathways of the Central Nervous System	ANATOMY
	16.00-16.50	How to Prepare a Scientific Report	G. Y. Demirel
	17.00-17.50	How to Prepare a Scientific Report	G. Y. Demirel
13-Mar-2014	09.00-09.50	Descending Pathways of the Central Nervous System	ANATOMY
THURSDAY	10.00-10.50	Descending Pathways of the Central Nervous System	ANATOMY
	11.00-11.50	**LAB:** Ascending and Descending Pathways of CNS	ANATOMY
	12.00-12.50	**LAB:** Ascending and Descending Pathways of CNS	ANATOMY
	13.00-13.50		
	14.00-14.50	**CSL:** Intramuscular Injection / Intradermal / Subcutan Injection Group I	H. Akan / A. Akalın
	15.00-15.50	**CSL:** Intramuscular Injection / Intradermal / Subcutan Injection Group I	H. Akan / A. Akalın
	16.00-16.50	**CSL:** Intramuscular Injection / Intradermal / Subcutan Injection Group I	H. Akan / A. Akalın
	17.00-17.50	Independent Study Hour	
14-Mar-2014		**PHYSICIANS' DAY**	
FRIDAY			

IV. WEEK

DAY	HOUR	SUBJECT	LECTURER
17-Mar-2014	09.00-09.50	Introduction to the Sensory Organs	ANATOMY
MONDAY	10.00-10.50	Introduction to the Sensory Organs	ANATOMY
	11.00-11.50	Spinal Reflexes	B. Yılmaz
	12.00-12.50	Vestibular System	B. Yılmaz
	13.00-13.50		
	14.00-14.50	Development of CNS; General Aspect	Ü. Uslu
	15.00-15.50	Development of Central Nervous System; Brain	Ü. Uslu
	16.00-16.50	**LAB:** Reflexes **Gr A**	PHYSIOLOGY
	17.00-17.50	**LAB:** Reflexes **Gr A**	PHYSIOLOGY
18-Mar-2014	09.00-09.50	Motor Functions of the Spinal Cord	B. Yılmaz
TUESDAY	10.00-10.50	Motor Functions of the Spinal Cord	B. Yılmaz
	11.00-11.50	Orbit, Its Contents, and the Eyeball	ANATOMY
	12.00-12.50	Orbit, Its Contents, and the Eyeball	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
19-Mar-2014	09.00-09.50	Functions of Cerebellum and Basal Ganglia for Motor Control	B. Yılmaz
WEDNESDAY	10.00-10.50	Functions of Cerebellum and Basal Ganglia for Motor Control	B. Yılmaz
	11.00-11.50	**LAB:** Orbit, Its Contents, and the Eyeball	ANATOMY
	12.00-12.50	**LAB:** Orbit, Its Contents, and the Eyeball	ANATOMY
	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	
20-Mar-2014	09.00-09.50	Cortical and Brain Stem Control of Motor Function	B. Yılmaz
THURSDAY	10.00-10.50	Cortical and Brain Stem Control of Motor Function	B. Yılmaz
	11.00-11.50	The Visual Pathways	ANATOMY
	12.00-12.50	The Visual Pathways	ANATOMY
	13.00-13.50		
	14.00-14.50	**LAB:** The Visual Pathways	ANATOMY
	15.00-15.50	**LAB:** The Visual Pathways	ANATOMY
	16.00-16.50	Independent Study Hours	
	17.00-17.50	Independent Study Hours	
21-Mar-2014	09.00-09.50	Pharmaceutical Forms of Drug	E. Genç
FRIDAY	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	**CSL:** Intramuscular Injection / Intradermal / Subcutan Injection Group II	H. Akan / A. Akalın
	15.00-15.50	**CSL:** Intramuscular Injection / Intradermal / Subcutan Injection Group II	H. Akan / A. Akalın
	16.00-16.50	**CSL:** Intramuscular Injection / Intradermal / Subcutan Injection Group II	H. Akan / A. Akalın
	17.00-17.50	Independent Study Hours	

V. WEEK

DAY	HOUR	SUBJECT	LECTURER
24-Mar-2014	09.00-09.50	Cerebral Cortex, Intellectual Functions of the Brain	B. Yılmaz
MONDAY	10.00-10.50	Learning and Memory	B. Yılmaz
	11.00-11.50	The Ear	ANATOMY
	12.00-12.50	The Ear	ANATOMY
	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:** The Ear	ANATOMY
	17.00-17.50	**LAB:** The Ear	ANATOMY
25-Mar-2014	09.00-09.50	Autonomic Nervous System	B. Yılmaz
TUESDAY	10.00-10.50	Autonomic Nervous System	B. Yılmaz
	11.00-11.50	The Skin, its Derivates, and the Mammary Glands	ANATOMY
	12.00-12.50	The Skin, its Derivates, and the Mammary Glands	ANATOMY
	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	**LAB:** The Skin, its Derivates, and the Mammary Glands	ANATOMY
	17.00-17.50	**LAB:** The Skin, its Derivates, and the Mammary Glands	ANATOMY
26-Mar-2014	09.00-09.50	Taste, Smell Pathways, and Limbic System	ANATOMY
WEDNESDAY	10.00-10.50	Taste, Smell Pathways, and Limbic System	ANATOMY
	11.00-11.50	Limbic System and the Hypothalamus	B. Yılmaz
	12.00-12.50	Limbic System and the Hypothalamus	B. Yılmaz
	13.00-13.50		
	14.00-14.50	**LAB:** Taste, Smell Pathways, and Limbic System	ANATOMY
	15.00-15.50	**LAB:** Taste, Smell Pathways, and Limbic System	ANATOMY
	16.00-16.50	**LAB:** Galvanized Skin Response **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Galvanized Skin Response **Gr B**	PHYSIOLOGY
27-Mar-2014	09.00-09.50	Drug Excretion	E. Genç
THURSDAY	10.00-10.50	Drug Excretion	E. Genç
	11.00-11.50	Ion Currents Through Neuron Membrane & Action Potential Spreading	A. Maharramov
	12.00-12.50	Mathematical Description of Ion Current Kinetics	A. Maharramov
	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
28-Mar-2014	09.00-09.50	States of Brain Activity-Sleep and Brain Waves	B. Şeker
FRIDAY	10.00-10.50	States of Brain Activity-Sleep and Brain Waves	B. Şeker
	11.00-11.50	**LAB:** Electroencephalography **Gr A**	PHYSIOLOGY
	12.00-12.50	**LAB:** Electroencephalography **Gr A**	PHYSIOLOGY
	13.00-13.50		
	14.00-14.50	**CSL:** Intramuscular Injection / Intradermal / Subcutan Injection Group III	H. Akan / Ö. Tanrıöver
	15.00-15.50	**CSL:** Intramuscular Injection / Intradermal / Subcutan Injection Group III	H. Akan / Ö. Tanrıöver
	16.00-16.50	**CSL:** Intramuscular Injection / Intradermal / Subcutan Injection Group III	H. Akan / Ö. Tanrıöver
	17.00-17.50	Independent Study Hour	

VI. WEEK

DAY	HOUR	SUBJECT	LECTURER
31-Mar-2014	09.00-09.50	Meninges and the Dural Venous Sinuses	ANATOMY
MONDAY	10.00-10.50	Meninges and the Dural Venous Sinuses	ANATOMY
	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	**LAB:** Meninges and the Dural Venous Sinuses	ANATOMY
	15.00-15.50	**LAB:** Meninges and the Dural Venous Sinuses	ANATOMY
	16.00-16.50	Vessels of the Central Nervous System	ANATOMY
	17.00-17.50	Vessels of the Central Nervous System	ANATOMY
1-April-2014	09.00-09.50	Cerebrospinal Fluid and Brain Metabolism	B. Yılmaz
TUESDAY	10.00-10.50	Cerebrospinal Fluid and Brain Metabolism	B. Yılmaz
	11.00-11.50	**LAB:** Vessels of the Central Nervous System	ANATOMY
	12.00-12.50	**LAB:** Vessels of the Central Nervous System	ANATOMY
	13.00-13.50		
	14.00-14.50	Introduction to the Autonomic Nervous System and Sympathetic Nervous System	ANATOMY
	15.00-15.50	Introduction to the Autonomic Nervous System and Sympathetic Nervous System	ANATOMY
	16.00-16.50	**LAB:** Electroencephalography **Gr B**	PHYSIOLOGY
	17.00-17.50	**LAB:** Electroencephalography **Gr B**	PHYSIOLOGY
2-April-2014	09.00-09.50	Principles of X-Ray Imaging and Ultrasound in Medicine	A. Maharramov
WEDNESDAY	10.00-10.50	Magnetic Resonance Imaging & Computerized Tomography	A. Maharramov
	11.00-11.50	Parasympathetic Nervous System	ANATOMY
	12.00-12.50	Parasympathetic Nervous System	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	S. Alpan
	16.00-16.50	**LAB:** Autonomic Nervous System	
	17.00-17.50	**LAB:** Autonomic Nervous System	
3-April-2014	09.00-09.50	Independent Study Hours	
THURSDAY	10.00-10.50	Independent Study Hours	
	11.00-11.50	Biology of Nervous System	T. İsbir
	12.00-12.50	Biology of Nervous System	T. İsbir
	13.00-13.50		
	14.00-14.50	Discussion	ANATOMY
	15.00-15.50	Discussion	ANATOMY
	16.00-16.50	**LAB:** Electroencephalography **Gr C**	PHYSIOLOGY
	17.00-17.50	**LAB:** Electroencephalography **Gr C**	PHYSIOLOGY
4-April-2014	09.00-09.50	**LAB:** Discussion of Histology Lab	HISTOLOGY
FRIDAY	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	

VII. WEEK (EXAM WEEK)

7-April-2014 MONDAY	
8-April-2014 TUESDAY	
9-April-2014 WEDNESDAY	
10-April-2014 THURSDAY	**PRACTICAL EXAM**
11-April-2014 FRIDAY	**THEORETICAL EXAM**

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE V
TISSUE DAMAGE and NEOPLASM
DISTRIBUTION of LECTURE HOURS
April 14 - May 24, 2014
COMMITTEE DURATION: 6 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MD 220	**BASIC MEDICAL SCIENCES II**	**115**	**52**	**167**
	DISCIPLINE			
	MICROBIOLOGY	57	33	90
	PATHOLOGY	15	5	20
	PHARMACOLOGY	17	8	25
	MEDICAL GENETICS	16	0	16
	PHYSIOLOGY	4	6	10
	BIOCHEMISTRY	2	0	2
	HISTOLOGY & EMBRYOLOGY	2	0	2
	SCIENTIFIC PROJECTS-II	2	0	2

MD 242	**INTRODUCTION TO CLINICAL PRACTICE- II**	0	10	10

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

YEDİTEPE UNIVERSITY
FACULTY OF MEDICINE
PHASE II

COMMITTEE V
TISSUE DAMAGE and NEOPLASM
LECTURERS
April 14 - May 24, 2014

BASIC MEDICAL SCIENCES II	
DISCIPLINE	**FACULTY**
HISTOLOGY & EMBRYOLOGY	Ünal USLU, MD Assist. Prof.
MICROBIOLOGY	Gülden ÇELİK, MD Prof. Yeşim GÜROL, MD Assoc. Prof. Çağatay ACUNER, MD Assoc. Prof.
MEDICAL GENETICS	Ayşegül KUŞKUCU, MD PhD Assist. Prof. Ömer Faruk BAYRAK, PhD Assist. Prof.
PATHOLOGY	Ferda ÖZKAN, MD Assoc. Prof. Işın DOĞAN EKİCİ, MD Assoc. Prof.
PHARMACOLOGY	Ece GENÇ, PhD Prof. Serdar ALPAN, MD, PhD Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Burcu ŞEKER, PhD Assist. Prof.
BIOCHEMISTRY	Serdar ÖZTEZCAN, MD Prof.
IMMUNOLOGY & SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMİREL, MD PhD Assoc. Prof.

INTRODUCTION TO CLINICAL PRACTICE- II	Güldal İZBIRAK, MD Assist. Prof. Hülya AKAN, MD Assoc. Prof. Özlem TANRIÖVER, MD Assist. 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.
6.0. For human flora;
  6.1. describe the flora,
  6.2. 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.

PHASE II COMMITTEE V TISSUE DAMAGE and NEOPLASM

I. WEEK

DAY	HOUR	SUBJECT	LECTURER
14-April-2014	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	
15-April-2014	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	
16 -April-2014	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	
17-April-2014	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	
18-Apr-2014	09.00-09.50	Enteric Gram Negative Bacilli	Ç. Acuner
FRIDAY	10.00-10.50	Yersinia, Francisella, Pasteurella, Vibrio, Campylobacter, Spirochetes	Y. Gürol
	11.00-11.50	Yersinia, Francisella, Pasteurella, Vibrio, Campylobacter, Spirochetes	Y. Gürol
	12.00-12.50		
	13.00-13.50	How to Write a Scientific Article	G. Y. Demirel
	14.00-14.50	How to Write a Scientific Article	G. Y. 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
21-April-2014	09.00-09.50	DNA Viruses	G. Çelik
MONDAY	10.00-10.50	DNA Viruses	G. Çelik
	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	
22-April-2014	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
23-April-2013		**NATIONAL HOLIDAY**	
WEDNESDAY			
24-April-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		
	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
25-April-2014	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	DNA Viruses	G. Çelik
	12.00-12.50	DNA 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
28-April-2014	09.00-09.50	Mycobacteria	Ç. Acuner
MONDAY	10.00-10.50	RNA Viruses	G. Çelik
	11.00-11.50	RNA Viruses	G. Çelik
	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	
29-April-2014	09.00-09.50	Slow Viruses	G. Çelik
TUESDAY	10.00-10.50	Aerobic Actinomycetes	Ç. Acuner
	11.00-11.50	Viral Oncogenesis	G. Çelik
	12.00-12.50	Antiviral Agents	G. Çelik
	13.00-13.50		
	14.00-14.50	Introduction to Parasitology	Y. Gürol
	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
30-April-2014	09.00-09.50	Sporozoons	Y. Gürol
WEDNESDAY	10.00-10.50	Sporozoons	Y. Gürol
	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	
1-May-2014		**LABOR'S DAY**	
THURSDAY			
2-May-2014	09.00-09.50	**CSL:** ICP- II Review Group II	A. Akalın
FRIDAY	10.00-10.50	**CSL:** ICP- II Review Group II	A. Akalın
	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	Vaccines	G. Çelik
	15.00-15.50	Tissue Damage by Eating Disorders and Diabetes Mellitus	F. Özkan
	16.00-16.50	Inflammation	F. Özkan
	17.00-17.50	Independent Study Hours	

IV. WEEK

DAY	HOUR	SUBJECT	LECTURER
5-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	
6-May-2014	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
7-May-2014	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	
8-May-2014	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	
9-May-2014	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
12-May-2014	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	Eicosanoids	E. Genç
	15.00-15.50	**LAB: XI** Parasitology	MICROBIOLOGY
	16.00-16.50	**LAB: XI**	MICROBIOLOGY
	17.00-17.50	**LAB: XI**	MICROBIOLOGY
13-May-2014	09.00-09.50	Pharmacogenetics & Pharmacogenomics	E. Genç
TUESDAY	10.00-10.50	Pharmacogenetics & Pharmacogenomics	E. Genç
	11.00-11.50	Adverse Effects of Drugs	S. Alpan
	12.00-12.50	Adverse Effects of Drugs	S. Alpan
	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
14-May-2014	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
15-May-2014	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	Introduction to Antimicrobial Chemotherapeutics 1	S. Alpan
	12.00-12.50	Introduction to Antimicrobial Chemotherapeutics 2	S. Alpan
	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	
16-May-2014	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
19-May-2014 MONDAY		**NATIONAL HOLIDAY**	
20-May-2014 TUESDAY	09.00-09.50	Drug Development and Evaluation 1	S. Alpan
	10.00-10.50	Drug Development and Evaluation 2	S. Alpan
	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	
21-May-2014 WEDNESDAY	09.00-09.50	Histamine and Antihistamines	E. Genç
	10.00-10.50	Vasoactive Peptides	E. Genç
	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	
22-May-2014 THURSDAY	09.00-09.50	Grading and Staging of Cancer and Clinical Findings	I. Doğan Ekici
	10.00-10.50	Grading and Staging of Cancer and Clinical Findings	I. Doğan Ekici
	11.00-11.50	Pharmacology of Bronchial Asthma	S. Alpan
	12.00-12.50	Antiseptics and Disinfectants	E. Genç
	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	
23-May-2014 FRIDAY	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	

26-May-2014 MONDAY	**VII. WEEK (EXAM WEEK)**
27-May-2014 TUESDAY	
28-May-2014 WEDNESDAY	
29-May-2014 THURSDAY	
30-May-2014 FRIDAY	**THEORETICAL EXAM**
June 5-6, 2014 THURSDAY - FRIDAY	**MAKE-UP EXAM**
June 9-10, 2014 MONDAY, TUESDAY	**ICP-II MAKE-UP EXAM**
June 23, 2014 MONDAY	**FINAL EXAM**
June 24, 2014 TUESDAY	**ICP-II FINAL EXAM**
July 21, 2014 MONDAY	**INCOMPLETE EXAM**
July 22, 2014 TUESDAY	**ICP-II INCOMPLETE EXAM**

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