

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES LECTURERS

MED 104- BASIC MEDICAL SCIENCES I	
DISCIPLINES	LECTURERS
ANATOMY	Erdem SÖZTUTAR, MD, Assist. Prof.
BIOPHYSICS	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD, Assoc.Prof.
	Alev CUMBUL, PhD, Assist. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD, Prof.
	Soner DOĞAN, PhD, Assoc. Prof.
	Deniz KIRAÇ, PhD, Assoc. Prof.
MEDICAL HISTORY & ETHICS	Elif VATANOĞLU-LUTZ, MD, Assoc. Prof.
MEDICAL MICROBIOLOGY	Çağatay ACUNER, MD, Assoc. Prof.
ORGANIC CHEMISTRY	Esra ÖNEN BAYRAM, PhD, Assoc. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD, Prof.
	Mehtap KAÇAR, MD, PhD, Assoc. Prof.
	Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof. Dr.
SCIENTIFIC RESEARCH and PROJECT I	Bayram YILMAZ, PhD, Prof.
	Bilge GÜVENÇ TUNA, PhD, Assist. Prof.

OTHER COURSES

MED 102-INTRODUCTION TO CLINICAL PRACTICE I (ICP- I)	Güldal İZBİRAK, MD, Assoc. Prof.
	Özlem TANRIÖVER, MD, Prof.
	Arzu AKALIN, MD, Assist. Prof.
MED 103- ANATOMICAL DRAWING	Refik AZİZ, PhD, Assist. Prof.
HTR 301-ATATURK'S PRINCIPLES & HISTORY OF MODERN TURKEY	Instructor
HUM 103-HUMANITIES	Instructor
TKL 201-TURKISH LANGUAGE & LITERATURE	Instructor

COMMITTEE I – INTRODUCTION TO BASIC MEDICAL SCIENCES

AIM and LEARNING OBJECTIVES

AIM

1. **to convey** basic term and concepts on medical history, anatomy, physiology, embryology, histology, medical biology, biophysics, organic chemistry and microbiology.
2. **to convey** basic knowledge on viability.
3. **to convey** knowledge on cellular structure and functions.

LEARNING OBJECTIVES

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

KNOWLEDGE

- 1.0. define fundamental concepts of anatomy
 - 1.1. define anatomy, its historical development and basic anatomical terms.
 - 1.2. explain basic concepts related to regional and systemic anatomy, and osteology.
- 2.0. define anatomical properties and clinical implications for bones of the upper and lower limbs.
- 3.0. explain basic terms and concepts related to basic physics, basic biophysics, international units, biomechanics, bio-optics, bioelectronics.
- 4.0. explain mechanic, electrical and optical processes that are characteristics of living organisms
- 5.0. describe the main types of microscope and their uses.
- 6.0. explain the histological methods.
- 7.0. explain human genome project and the importance of the results.
- 8.0. explain the structure and function of eukaryotic subcellular organelles.
- 9.0. identify the molecules involved in the communication between the cells.
- 10.0. explain the mechanism of signal transduction,
- 11.0. describe the programmed cell death.
- 12.0. define the concepts of medicine, disease and health in the evolutionary perspective.
- 13.0. explain disease and health theories in prehistoric era
- 14.0. explain history of discovery for important microorganisms causing infections in humans
- 15.0. define structure of atom and chemical bonds.
- 16.0. for organic compounds
 - 16.1. define functional groups
 - 16.2. classify possible reactions
- 17.0. define homeostasis

SKILLS

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

ATTITUDES

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

COMMITTEE ASSESSMENT MATRIX

LEARNING OBJECTIVES	DICIPLINE	LECTURER / INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	ICE	TOTAL
1.0, 2.0	ANATOMY	Dr. E. Söztutar	10	4	4	18
3.0, 4.0	BIOPHYSICS	Dr. B. Güvenç Tuna	17	7	7	31
5.0, 6.0	HISTOLOGY&EMBRYOLOGY	Dr. A. Yaba Uçar	7	3	3	13
		Dr. A. Cumbul				
7.0 – 11.0	MEDICAL BIOLOGY	Dr. T. İsbir	41	17	17	75
		Dr. S. Doğan				
12.0, 13.0	MEDICAL HISTORY & ETHICS	Dr. E. Vatanoğlu Lutz	11	5	5	21
14.0	MEDICAL MICROBIOLOGY	Dr. Ç. Acuner	3	1	1	5
15.0, 16.0	ORGANIC CHEMISTRY	Dr. E. Önen Bayram	9	4	4	17
17.0	PHYSIOLOGY	Dr. B. Gemici Başol	2	1	1	4
TOTAL			100	42/200[#]	42/200[#]	184
LEARNING OBJECTIVES		DISCIPLINE	DISTRUBITION of LAB POINTS			
			LPE			
1.0, 2.0,SKILLS 1.0		ANATOMY	25			
5.0 , 6.0, SKILLS 1.0		HISTOLOGY & EMBRYOLOGY	25			
7.0 – 11.0, SKILLS 1.0		MEDICAL BIOLOGY	50			
TOTAL			100			

Total number of MCQs are 100 (each question has equal value)

Total value of LPE is equal to 100 points

CS = 90% CE (MCQ) + 10% (LPE)

[#]In FE and ICE, **42** out of 200 MCQs will be from this Committee (Each question has equal value.)

Abbreviations:

MCQ: Multiple Choice Question

LPE: Practical Lecture Evaluation

CE: Committee Exam

CS: Committee Score

FE: Final Exam

ICE: Incomplete Exam

COMMITTEE I - INTRODUCTION TO BASIC MEDICAL SCIENCES

I. WEEK / 09 – 13 Sep 2019

	Monday 09-Sep-2019	Tuesday 10-Sep-2019	Wednesday 11-Sep-2019	Thursday 12-Sep-2019	Friday 13-Sep-2019
09.00- 09.50	Independent Learning	Independent Learning	Lecture Approaches to Medicine/ Medicine in Prehistoric Times <i>Elif Vatanoğlu Lutz</i>	Independent Learning	Lecture / ICP I Legal Aspect of First Aid <i>Elif Vatanoğlu Lutz</i>
10.00- 10.50	Introductory Session Introduction to Faculty <i>Dean</i>	Lecture / ICP I Introduction to the First Aid Programmes <i>Güldal İzbirak</i>	Lecture Medicine in Early Civilisations (Mesopotamia, Egypt) <i>Elif Vatanoğlu Lutz</i>		Lecture / ICP I Legal Aspect of First Aid <i>Elif Vatanoğlu Lutz</i>
11.00- 11.50	Introductory Session Introduction to Committee I <i>Phase I Coordinator</i>	Lecture / ICP I Basic Human Body <i>Arzu Akalın</i>	Lecture Introduction to Medical Biology <i>Turgay İsbir</i>	Lecture Greek Medicine: From Mythology to Natural Philosophy <i>Elif Vatanoğlu Lutz</i>	Lecture Hippocrates to Celsus <i>Elif Vatanoğlu Lutz</i>
12.00- 12.50	Independent Learning	Lecture / ICP I Scene Assessment <i>Arzu Akalın</i>	Lecture Origin of Life <i>Turgay İsbir</i>	Lecture Introduction to Biophysics; Medicine, Science or Art <i>Bilge Güvenç Tuna</i>	Lecture Galen <i>Elif Vatanoğlu Lutz</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Instructor</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Origin of Life <i>Turgay İsbir</i>	Lecture Physical Measurements and Units, Unit Standards <i>Bilge Güvenç Tuna</i>	Lecture Cellular Organization of Life <i>Turgay İsbir</i>
15.00- 15.50			Lecture Cellular Organization of Life <i>Turgay İsbir</i>	Lecture / Scientific Research and Project I What is scientific research and scientific methodology? <i>Bayram Yılmaz/ Bilge Güvenç Tuna</i>	Independent Learning
16.00- 16.50	Common Compulsory Course Turkish Language & Literature <i>Instructor</i>	Common Compulsory Course Humanities <i>Instructor</i>	Independent Learning	Lecture / Scientific Research and Project I Searching Scientific Literature <i>Bayram Yılmaz/ Bilge Güvenç Tuna</i>	
17.00-17.50				Independent Learning	

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II. WEEK / 16 – 20 Sep 2019

	Monday 16-Sep-2019	Tuesday 17-Sep-2019	Wednesday 18-Sep-2019	Thursday 19-Sep-2019	Friday 20-Sep-2019
09.00- 09.50	Independent Learning	Lecture Cellular Organization of Life <i>Turgay İsbir</i>	Lecture Acids & Bases <i>Esra Önen Bayram</i>	Lecture Electronmicroscopy <i>Alev Cumbul</i>	Lecture Cytoskeleton <i>Turgay İsbir</i>
10.00- 10.50		Lecture Cellular Organization of Life <i>Turgay İsbir</i>	Lecture Acids & Bases <i>Esra Önen Bayram</i>	Lecture Cellular Organization of Life <i>Turgay İsbir</i>	Lecture Cytoskeleton <i>Turgay İsbir</i>
11.00- 11.50		Lecture / ICP I Basic Life Support and Heimlich Maneuver <i>Güldal İzbırak</i>	Lecture Introduction to Histology; Basic Terminology <i>Alev Cumbul</i>	Lecture Cytoskeleton <i>Turgay İsbir</i>	Lecture Introduction to Osteology <i>Erdem Söztutar</i>
12.00- 12.50		Lecture / ICP I Basic Life Support and Heimlich Maneuver <i>Güldal İzbırak</i>	Lecture Microscopy (Brightfield, Fluorescent, Confocal) <i>Alev Cumbul</i>	Lecture History and Scope of Microbiology <i>Çağatay Acuner</i>	Lecture Bones of the Shoulder <i>Erdem Söztutar</i>
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Lecture Common Compulsory Course Ataturk's Principles & History Of Modern Turkey <i>Instructor</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture History and Scope of Microbiology <i>Çağatay Acuner</i>	Lecture Introduction to Anatomy <i>Erdem Söztutar</i>	Lecture Methods of Histology; Tissue Processing <i>Aylin Yaba Uçar</i>
15.00- 15.50			Lecture History and Scope of Microbiology <i>Çağatay Acuner</i>	Lecture Terminology in Anatomy <i>Erdem Söztutar</i>	Lecture Methods of Histology; Immunohistochemistry <i>Aylin Yaba Uçar</i>
16.00- 16.50	Common Compulsory Course Turkish Language & Literature <i>Instructor</i>	Common Compulsory Course Humanities Conferences <i>Instructor</i>	Independent Learning	Independent Learning	Independent Learning
17.00-17.50					

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III. WEEK / 23– 27 Sep 2019

	Monday 23-Sep-2019				Tuesday 24-Sep-2019	Wednesday 25-Sep-2019	Thursday 26-Sep-2019	Friday 27-Sep-2019
09.00- 09.50	Laboratory / Histology&Embryology Microscopy <i>Alev Cumbul & Aylin Yaba Uçar</i>				Statics (Mass and Weight), Gravitation Law <i>Bilge Güvenç Tuna</i>	Lecture Alkanes & Cycloalkanes <i>Esra Önen Bayram</i>	Lecture Cell Signalling Events <i>Turgay İsbir</i>	Independent Learning
10.00- 10.50	Group A		Group B Independent Learning		Lecture Newton's Laws of Motion <i>Bilge Güvenç Tuna</i>	Lecture Alkanes & Cycloalkanes <i>Esra Önen Bayram</i>	Lecture Cell Signalling Events <i>Turgay İsbir</i>	Lecture Bones of the Upper Limb <i>Erdem Söztutar</i>
11.00- 11.50	Laboratory / Med. Biology Introduction to Medical Biology <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>				Lecture / ICP I Shock and Bleeding Control <i>Güldal İzbirak</i>	Lecture Other Histologic Methods <i>Alev Cumbul</i>	Introductory Session Introduction to Problem Based Learning (PBL) <i>PBL Coordinators</i>	Lecture Bones of the Upper Limb <i>Erdem Söztutar</i>
12.00- 12.50	Group A	Group B	Group C	Group D	Lecture / ICP I Burns, Freezing, Frostbite <i>Özlem Tanrıöver</i>	Lecture Cytoskeleton <i>Turgay İsbir</i>	Lecture Center of Mass, Moment <i>Bilge Güvenç Tuna</i>	Lecture Bio-optics: Vision and Eye, Refraction errors <i>Bilge Güvenç Tuna</i>
13.00- 13.50	Lunch Break				Lunch Break	Lunch Break	Lunch Break	Lunch Break
14.00- 14.50	Common Compulsory Course Ataturk's Principles & History Of Modern Turkey <i>Instructor</i>				Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Cell Adhesion <i>Turgay İsbir</i>	Lecture Cell Signalling Events <i>Turgay İsbir</i>	Lecture Optical Aberrations <i>Bilge Güvenç Tuna</i>
15.00- 15.50						Lecture Cell Adhesion <i>Turgay İsbir</i>	Lecture Cell Signalling Events <i>Turgay İsbir</i>	Independent Learning
16.00- 16.50	Common Compulsory Course Turkish Language & Literature <i>Instructor</i>				Common Compulsory Course Humanities <i>Instructor</i>	Lecture Cell Adhesion <i>Turgay İsbir</i>	Lecture Nature of Light, Electromagnetic Spectrum <i>Bilge Güvenç Tuna</i>	Lecture Alkenes <i>Esra Önen Bayram</i>
17.00-17.50						Independent Learning	Lecture Reflection and Refraction of Light <i>Bilge Güvenç Tuna</i>	Lecture Alkenes <i>Esra Önen Bayram</i>

IV. WEEK / 30 Sep– 04 Oct 2019

Wednesday	
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	Monday 30-Sep-2019				Tuesday 01 Oct-2019	Wednesday 02 Oct-2019	Thursday 03 Oct-2019	Friday 04 Oct-2019						
09.00- 09.50	Laboratory / Med. Biology The Preparation of Aqueous Solutions <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>				Lecture / ICP I Injuries <i>Arzu Akalın</i>	Lecture Indian and Chinese Medicine <i>Elif Vatanoğlu Lutz</i>	Lecture Lenses; Lens-maker Equation <i>Bilge Güvenç Tuna</i>	Lecture Medicine in Abbasid Baghdad <i>Elif Vatanoğlu Lutz</i>						
10.00- 10.50	Group A	Group B Independent Learning	Group C Independent Learning	Group C Independent Learning	Lecture / ICP I Foreign Objects <i>Arzu Akalın</i>	Lecture Late Antiquity: Byzantine, Arab <i>Elif Vatanoğlu Lutz</i>	Lecture Optical Properties of Microscopes <i>Bilge Güvenç Tuna</i>	Lecture The Time of Ibn Sina <i>Elif Vatanoğlu Lutz</i>						
11.00- 11.50	Group A Independent Learning	Group B	Group C Independent Learning	Group C Independent Learning	Lecture Cell Signalling Events <i>Turgay İsbir</i>	Lecture Intercellular Cell Signalling <i>Turgay İsbir</i>	Lecture Programmed Cell Death <i>Turgay İsbir</i>	Lecture Seljuk and Ottoman Medicine <i>Elif Vatanoğlu Lutz</i>						
12.00- 12.50					Lecture Cell Signalling Events <i>Turgay İsbir</i>	Lecture Intercellular Cell Signalling <i>Turgay İsbir</i>	Lecture Programmed Cell Death <i>Turgay İsbir</i>	Lecture Electrical Security Systems <i>Bilge Güvenç Tuna</i>						
13.00- 13.50	Lunch Break				Lunch Break	Lunch Break	Lunch Break	Lunch Break						
14.00- 14.50	Common Compulsory Course Turkish Language & Literature <i>Instructor</i>				Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Lecture Intercellular Cell Signalling <i>Turgay İsbir</i>	Lecture Programmed Cell Death <i>Turgay İsbir</i>	Laboratory / Med. Biology The Preparation of Aqueous Solutions <i>Turgay İsbir</i> <i>Soner Doğan & Deniz Kıraç</i>						
15.00- 15.50						Lecture Programmed Cell Death <i>Turgay İsbir</i>	Lecture Optical Properties of Microscopes <i>Bilge Güvenç Tuna</i>							
16.00- 16.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Instructor</i>				Common Compulsory Course Humanities <i>Instructor</i>	Lecture Benzene & Aromaticity <i>Esra Önen Bayram</i>	Independent Learning				Group A Learning Independent	Group B Independent Learning	Group C Independent Learning	Group D
17.00-17.50						Lecture Benzene & Aromaticity <i>Esra Önen Bayram</i>								

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V. WEEK / 07 – 11 Oct 2019

	Monday 07 Oct-2019	Tuesday 08 Oct-2019	Wednesday 09 Oct-2019	Thursday 10 Oct-2019	Friday 11 Oct-2019		
09.00- 09.50	Laboratory / Histology&Embryology Microscopy <i>Alev Cumbul & Aylin Yaba Uçar</i>	Lecture Electric Current Effects on Human Tissue <i>Bilge Güvenç Tuna</i>	Lecture Cell Membrane <i>Soner Doğan</i>	PROBLEM BASED LEARNING ORIENTATION DAY	Lecture Cell Cycle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) <i>Turgay İsbir</i>		
10.00- 10.50		Group A Independent Learning	Group B		Lecture / ICP I Fractures and Dislocation <i>Özlem Tanrıöver</i>	Lecture Cell Cycle and Mitosis-Meiosis (Introduction to Cellular Homoestosis) <i>Turgay İsbir</i>	
11.00- 11.50	Laboratory / Anatomy Bones of The Shoulder and Upper Limb <i>Erdem Söztutar</i>	Lecture / ICP I The Unconscious Casualty <i>Güldal İzbirak</i>	Lecture Cellular Organization of Life Biological Energy Systems Enzymes and Kinetics <i>Soner Doğan</i>		Lecture Cellular Homoestosis and Cell Growth <i>Turgay İsbir</i>		
	Group A					Group B Independent Learning	
12.00- 12.50	Group A Independent Learning	Group B	Lecture / ICP I Poisoning <i>Arzu Akalın</i>		Lecture Bones of the Pelvis <i>Erdem Söztutar</i>	Lecture Cellular Homoestosis and Cell Growth <i>Turgay İsbir</i>	
13.00- 13.50	Lunch Break		Lunch Break		Lunch Break	Lunch Break	
14.00- 14.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Instructor</i>		Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>		Lecture Bones of the Pelvis & Lower Limb <i>Erdem Söztutar</i>	Lecture Cell Membrane <i>Soner Doğan</i>	
15.00- 15.50					Lecture Bones of the Pelvis & Lower Limb <i>Erdem Söztutar</i>	Lecture Cellular Organization of Life Enzymes and Kinetics <i>Soner Doğan</i>	
16.00- 16.50	Common Compulsory Course Turkish Language & Literature <i>Instructor</i>		Common Compulsory Course Humanities <i>Instructor</i>		Independent Learning		Lecture Membrane Impedance, Bioelectrical Activity <i>Bilge Güvenç Tuna</i>
17.00-17.50							Lecture Electric Charges, Electric Field <i>Bilge Güvenç Tuna</i>

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VI. WEEK / 14 – 18 Oct 2019

	Monday 14 Oct-2019	Tuesday 15 Oct-2019	Wednesday 16 Oct-2019	Thursday 17 Oct-2019	Friday 18 Oct-2019
09.00- 09.50	Independent Learning	Independent Learning	Laboratory / Histology&Embryology <i>Alev Cumbul & Aylin Yaba Uçar</i> Review Session Group A and B	Independent Learning	Independent Learning
10.00- 10.50		Lecture / ICP I Insect Bite <i>Özlem Tanrıöver</i>			
11.00- 11.50	Laboratory / Anatomy Bones of the Pelvis & Lower Limb <i>Erdem Söztutar</i>	Lecture / ICP I Patient-Causalty Transportation Techniques <i>Özlem Tanrıöver</i>	Lecture Introduction to Physiology and Homeostasis <i>Bayram Yılmaz</i>		
	Group A Independent Learning				
12.00- 12.50	Group A	Group B Independent Learning	Lecture / ICP I Drowning <i>Güldal İzbirak</i>		
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14.00- 14.50	Common Compulsory Course Ataturk's Principles & History of Modern Turkey <i>Instructor</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Independent Learning	Independent Learning	
15.00- 15.50					
16.00- 16.50	Common Compulsory Course Turkish Language & Literature <i>Instructor</i>	Common Compulsory Course Humanities <i>Instructor</i>			
17.00-17.50					

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VII. WEEK / 21 – 25 Oct 2019

	Monday 21 Oct-2019	Tuesday 22 Oct-2019	Wednesday 23 Oct-2019	Thursday 24 Oct-2019	Friday 25 Oct-2019
09.00- 09.50	Assessment Session Medical Biology (Practical Exam)	Independent Learning	Assessment Session Anatomy (Practical Exam)	Independent Learning	Independent Learning
10.00- 10.50					Assessment Session Committee I (MCQ)
11.00- 11.50	Assessment Session Histology&Embryology (Practical Exam)		Independent Learning		
12.00- 12.50					
13.00- 13.50	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Program Evaluation Session Review of the Exam Questions, Evaluation of the Committee I Program <i>Head of Committee</i>
14.00- 14.50	Common Compulsory Course Ataturk's Principles & History Of Modern Turkey <i>Instructor</i>	Common Compulsory Course Anatomical Drawing <i>Refik Aziz</i>	Independent Learning	Independent Learning	Independent Learning
15.00- 15.50					
16.00- 16.50	Common Compulsory Course Turkish Language & Literature <i>Instructor</i>	Common Compulsory Course Humanities <i>Instructor</i>			
17.00-17.50					

