

COURSE INFORMATION					
Course Title	Code	Phase/Semester	L+P Hour	Credits	ECTS
Basic Medical Sciences	MED 104		-	-	40

Prerequisites	Phase 1/Semester 1-2
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Language of Instruction	English
Course Level	First Cycle, (Bachelor of Science), Undergraduate, Directive 2005/36/EC; "Regulated Profession" (Exempt from EQF Level Scheme)
Course Type	Compulsory Professional (Knowledge and Skills: physiopathological processes, pathological processes; introduction to clinical practice-advanced clinical skills)
Course Coordinators	<p style="text-align: center;">COORDINATION COMMITTEE (TEACHING YEAR 2019 – 2020)</p> <p style="text-align: center;">Elif Çiğdem ALTUNOK, Ph.D, Assist. Prof. (Coordinator) Aylin YABA UÇAR, Ph.D, Assoc. Prof. (Co-coordinator) Soner DOĞAN Ph.D, Assoc. Prof. (Co-coordinator) Bilge GÜVENÇ TUNA Ph.D, Assist. Prof. (Co-coordinator) Oya ALAGÖZ, MD, Assist. Prof. (Co-coordinator) Aikaterini PANTELİ, MD, Assist. Prof. (Co-coordinator)</p> <p style="text-align: center;">ICP-I COORDINATION COMMITTEE</p> <p style="text-align: center;">Özlem TANRIÖVER, MD. Prof. (Coordinator) A. Arzu AKALIN, MD Assist. Prof. (Co-Coordinator)</p> <p style="text-align: center;">ELECTIVE COURSES COORDINATION COMMITTEE</p> <p style="text-align: center;">Ayşe Arzu AKALIN, MD, Assist. Prof. (Coordinator) Seda GÜLEÇ, PhD. Assoc. Prof. (Co-coordinator)</p> <p style="text-align: center;">PBL COORDINATION COMMITTEE</p> <p style="text-align: center;">Serdar ÖZDEMİR, MD, PhD, Assist. Prof. (Coordinator) İbrahim Çağatay ACUNER, MD, Assoc. Prof. (Co-Coordinator) Burcu GEMİCİ BAŞOL, Ph.D, Assoc. Prof. (Co-Coordinator)</p> <p style="text-align: center;">COMMITTEE COORDINATION</p> <p style="text-align: center;">COMMITTEE I - INTRODUCTION to BASIC MEDICAL SCIENCES Coordination Committee Head Turgay İSBİR, Prof. Secretary Aylin YABA UÇAR, Assoc. Prof. Member Bilge GÜVENÇ TUNA, Assist. Prof. Member Erdem SÖZTUTAR, Assist. Prof..</p>

Instructors	<p>COMMITTEE II – CELL</p> <p>Coordination Committee</p> <p>Head Deniz KIRAÇ, Assoc. Prof.</p> <p>Secretary Soner DOĞAN, Assoc. Prof.</p> <p>Member Bilge GÜVENÇ TUNA, Assist. Prof.</p> <p>Member Alev CUMBUL, Assist. Prof.</p> <p>COMMITTEE III – TISSUE I</p> <p>Head Burcu GEMİCİ BAŞOL, PhD. Assoc. Prof.</p> <p>Secretary Bilge GÜVENÇ TUNA, PhD, Assist. Prof.</p> <p>Member Erdem SÖZTUTAR, MD, Assist. Prof.</p> <p>Member Alev CUMBUL, PhD, Assist. Prof.</p> <p>COMMITTEE IV – TISSUE II</p> <p>Head İnci ÖZDEN, PhD, Prof.</p> <p>Secretary Aikaterini PANTELİ, MD, Assist. Prof.</p> <p>Member Deniz KIRAÇ, PhD, Assoc. Prof.</p> <p>Member Erdem SÖZTUTAR, MD, Assist. Prof.</p> <p>COMMITTEE V - ENERGY and METABOLISM</p> <p>Coordination Committee</p> <p>HEAD: Bayram YILMAZ, PhD Prof.</p> <p>SECRETARY Deniz KIRAÇ, PhD Assoc. Prof.</p> <p>MEMBER: Mehtap KAÇAR, MD. Ph.D. Assoc. Prof.</p> <p>MEMBER : Aikaterini PANTELİ, MD, Lecturer</p> <p>Course Components:</p> <p>COMMITTEE I – BASIC MEDICAL SCIENCES</p> <p>ANATOMY</p> <p>Erdem SÖZTUTAR, MD, Assist. Prof.</p> <p>BIOPHYSICS</p> <p>Bilge GÜVENÇ TUNA, PhD, Assist. Prof.</p> <p>HISTOLOGY & EMBRYOLOGY</p> <p>Aylin YABA UÇAR, PhD, Assoc.Prof.</p>

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

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Mehtap KAÇAR, MD, PhD, Assoc. Prof.

Burcu GEMİCİ BAŞOL, PhD, Assoc. Prof.

SCIENTIFIC RESEARCH and PROJECT I

Bayram YILMAZ, PhD, Prof.

Bilge GÜVENÇ TUNA, PhD, Assist. Prof.

INTRODUCTION TO CLINICAL PRACTICE- I

Güldal İZBİRAK, MD, Assoc. Prof.

Özlem TANRIÖVER, MD, MPH, Prof.

A. Arzu AKALIN, MD, Assist. Prof.

COMMITTEE II - CELL

ANATOMY

Erdem SÖZTUTAR, MD, Assist. Prof.

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IMMUNOLOGY

Gülderen YANIKKAYA DEMİREL, MD, PhD, Prof

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Serdar ÖZDEMİR, MD, PhD, Assist. Prof.

COMMITTEE IV – TISSUE II

ANATOMY

Erdem SÖZTUTAR, MD, Assist. Prof.

BEHAVIORAL SCIENCES

Instructor

BIOCHEMISTRY

İnci ÖZDEN, PhD, Prof.

Altay Burak DALAN, PhD, Assoc. Prof

Jale ÇOBAN, MD, Prof.

Müge KOPUZ ALVAREZ NOVAL, PhD, Assist. Prof.

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Bilge GÜVENÇ TUNA, PhD, Assist. Prof.

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A. Arzu AKALIN, MD, Assist. Prof.

Serdar ÖZDEMİR, MD, PhD, Assist. Prof.

Assistants	Selvi Duman, Biologist, M.Sc., Laboratory Technician Yasin Delibaş, Laboratory Technician Sinem Ethemoglu, M.Sc. PhD Student, Laboratory Technician Sami Ağuş, M.Sc. PhD Student, Laboratory Technician Özge Başer, M.Sc. PhD Student, Laboratory Technician Buğra Özgün PhD Student Laboratory Technician Cihan Süleyman Erdoğan PhD Student, Laboratory Technician
Goals	In evidence based manner,; 1. <i>To convey basic knowledge on medical history, organic chemistry, biology, biophysics, biochemistry, biostatistics, anatomy, physiology, embryology, histology, microbiology, immunology, behavioral sciences, civilization history and medical ethics.</i> 2. <i>To convey complementary educational experiences by improving biopsychosocial approach on medical practice.</i> 3. <i>To prepare students to clinical practice To equip with skills for scientific project preparation.</i>
Content	Course Components: COMMITTEE I Basic Medical Sciences (7 weeks) COMMITTEE II Cell (8 weeks) COMMITTEE III Tissue I (6 weeks) COMMITTEE IV Tissue II (8 weeks) COMMITTEE V Energy and Metabolism (6 weeks)

Learning Outcomes Graduate should be able to	Program Outcomes	Teaching Methods	Assessment Methods
1.0. explain information about medical history, anatomy, physiology, embryology, histology, organic chemistry, biology, biophysics, biochemistry, biostatistics, microbiology, immunology, behavioral sciences, civilization history and medical ethics and elective courses.	1	1, 6	A
2.0. <i>for biophysics;</i> 2.1. <i>explain basic terms and concepts.</i> 2.2. <i>explain its essential application areas in medicine.</i>	1	1, 6	A
3.0. explain the structure and function of the cell.	1	1, 6	A
4.0. describe the stages of early embryonic development	1	1, 6	A
5.0. define four basic tissue types with cells and extracellular matrix.	1	1, 6	A
6.0. define transport mechanism of biological membranes and its correlation with ATP usage	1	1, 6	A
7.0. list the enzymes in blood coagulation	1	1, 6	A
8.0. <i>for enzymes;</i> 8.1. list basic properties and classes of enzymes,	1	1, 6	A

8.2. describe regulatory functions of enzymes, 8.3. define the functions of enzymes in			
9.0. define the link between the structure and function of tissues	1	1, 6	A
10.0. define muscular, vascular and nervous system	1	1, 6	A
11.0. list basic properties and classes of microorganisms.	1	1, 6	A
12.0. describe basic terms and concepts about first aid.	1	1, 6	A
13.0. describe basic terms and concepts of communication skills	1	1, 6	A
14.0. describe basic terms and concepts about epidemiology.	1	1, 6	A
15.0. list fundamental steps of a research study.	1	1, 6	A
16.0. describe basic terms of concepts of biostatistics.	1	1, 6	A
17.0. explain case scenario related basic medical science topics in a clinical context	1	1, 6	A
18.0. define basic elements of immune response	1	1, 6	A
19.0. describe scientific study design and types of scientific research describe scientific study design and types of scientific research	1	1, 6	A

Teaching/Learning Methods:	<ul style="list-style-type: none"> • CONTACT HOURS (CH)
	<ol style="list-style-type: none"> 1. Theoretical-Class/Auditorium/Conference Hall/Multimedia <ol style="list-style-type: none"> 1.1. Lecture/Tutorial 1.2. Case report 1.3. Case presentation 1.4. Research seminar 1.5. Seminar 1.6. Student seminar/Journal club 1.7. Invited speaker 1.8. Hospital conference 1.9. Online/Distance or e-learning (paper based or ICT based) 1.10. Other: 2. Theoretical-Group Activity/Interactive <ol style="list-style-type: none"> 2.1. Case discussion 2.2. Discussion class 2.3. Small group study session/Problem solving session/Brainstorm session 2.4. Exercise class 2.5. Oral presentation and criticism 2.6. Panel 2.7. Workshop 2.8. Online/Distance or e-learning (paper based or ICT based) 2.9. Other: 3. Practice Based-Laboratory/Class <ol style="list-style-type: none"> 3.1. Demonstration class 3.2. Laboratory teaching

	3.3. Clinical skills laboratory 3.4. Small group study session/Problem solving session 3.5. Exercise class 3.6. Workshop (practical class) 3.7. Other:
4.	Clerkship (Clinical practice and training) 4.1. Field study/Fieldwork 4.2. Outpatient clinic 4.3. Patient bedside 4.4. Imaging round 4.5. Laboratory round 4.6. Work based practice 4.7. Grand round 4.8. Operating room 4.9. Invasive Intervention room 4.10. Night shift at ward 4.11. Night shift at intensive care unit 4.12. Night shift at emergency care unit 4.13. Other:
5.	Work placement/Internship (Clinical performance under supervision) 5.1. Field study/Fieldwork 5.2. Outpatient clinic 5.3. Patient bedside 5.4. Imaging round 5.5. Laboratory round 5.6. Work based practice 5.7. Grand round 5.8. Operating room 5.9. Invasive intervention room 5.10. Night shift at ward 5.11. Night shift at intensive care unit 5.12. Night shift at emergency care unit 5.13. Other:
	• INDEPENDENT STUDY HOURS (ISH)
6.	KNOWLEDGE (Levels: Knowledge, Comprehension, Application, Analysis, Synthesis, Evaluation) 6.1. Theoretical/Written/Oral exam/s 6.2. Presentation 6.3. Seminar 6.4. Discussion 6.5. Session 6.6. Research paper writing 6.7. Project writing 6.8. Report writing 6.9. Dissertation writing 6.10. Homework 6.11. Investigation/Survey study 6.12. Other:
7.	SKILLS: (Levels: Imitation, Manipulation, Precision, Articulation, Naturalization) 7.1. Oral/practical exam/s 7.2. Presentation 7.3. Seminar 7.4. Discussion 7.5. Session 7.6. Exercise 7.7. Workshop 7.8. Imaging round 7.9. Laboratory round 7.10. Grand round 7.11. Other:
8.	ATTITUDES (Receiving, Responding, Valuing, Organization, Characterization) 8.1. Questionnaire (self-assessment) 8.2. Paper case 8.3. Other:
9.	COMPETENCY (Doing/Making, Co-ordinating/Operating, Observing/Analysing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing)

	9.1. Portfolio preparation 9.2. Clinical performance at outpatient wards 9.3. Clinical performance at inpatient wards 9.4. Clinical performance at night shifts (ward, emergency care unit, intensive care unit) 9.5. Other: (e.g. mini-clinical exam, etc.) 10. PROFICIENCY (Doing/Making, Co-ordinating/Operating, Observing/Analysing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing) 10.1. Portfolio preparation 10.2. Clinical performance at outpatient wards 10.3. Clinical performance at inpatient wards 10.4. Clinical performance at night shifts (ward, emergency care unit, intensive care unit) 10.5. Other: (e.g. mini-clinical exam, etc.)
Assessment Methods:	A. Knowledge Assessment <ul style="list-style-type: none"> a. Written Exam (MCQ+EMQ+KFQ) (F, S) b. Objectively Structured Oral Examination (S) c. Oral Examination (F) d. Other: B. Skills Assessment <ul style="list-style-type: none"> a. Practical Examination (F) b. Objectively Structured Practical Examination (S) c. Mini Clinical Examination (S) d. Other: C. Attitude Assessment <ul style="list-style-type: none"> a. Mini Clinical Examination (S) b. Questionnaire (self-assessment) (F) c. Paper case (S) d. Observation of behaviour (360°) (F, S) e. Other: D. Competency Assessment <ul style="list-style-type: none"> a. Mini Clinical Examination (S) b. Clerkship/Internship Guide/Checklist Assessment (F, S) c. Professional Portfolio Assessment (F) d. Presentation Performance Assessment (F) e. Seminar Performance Assessment (F) f. Project Writing Assessment (S) g. Other: E. Proficiency Assessment <ul style="list-style-type: none"> a. Mini Clinical Examination (S) b. Clerkship/Internship Guide/Checklist Assessment (F, S) c. Professional Portfolio Assessment (F) d. Presentation Performance Assessment (F) e. Seminar Performance Assessment (F) f. Other: *F: Formative, S: Summative

COURSE CONTENT		
For Detailed information: https://med.yeditepe.edu.tr/sites/default/files/phase_2_apk_2019_16.12.2019_baski_0.pdf		
Week	Topics	Study Materials
1-6	Committee I: Basic Medical Sciences	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials

7	Committee Exam	
8-15	Committee II: Cell	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials
16	Committee Exam	
17-20	Committee III: Tissue I	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials
21-22	Midterm Break (2 weeks)	
23	Committee III: Tissue I	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials
24	Committee Exam	
25-32	Committee IV : Tissue II	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials
33	Committee Exam	
34-39	Committee V: Energy and Metabolism	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos, Specifically designed phantoms, Medical and laboratory devices, Medical and non-medical consumables, Practice materials
40	Committee Exam	
43	Final Exam	
47	Incomplete Exam	

RECOMMENDED SOURCES	
Textbooks	<ul style="list-style-type: none"> • Gray's Anatomy for Students • Hollinshead's Textbook of Anatomy • A Textbook of Neuroanatomy • Textbook of Biochemistry with Clinical Correlations • Harper's Illustrated Biochemistry • Lehninger Principles of Biochemistry • Biophysics: A Physiological Approach • Physics in Biology and Medicine (4th edition) • Introductory Biophysics: Perspectives on the Living State • Primer of Biostatistics • Junqueira's Basic Histology: Text and Atlas 13th Ed. • The Developing Human: Clinically Oriented Embryology, 10th Ed. • Molecular Biology of the Cell • Clinical Bioethics: Theory and Practice in Medical-Ethical Decision Making • Blood and Guts: A Short History of Medicine • Medical Microbiology 8th ed, 2016 • Organic Chemistry • Guyton Physiology • Human Physiology • Basic Immunology, Functions and Disorders of the Immune System
Additional Resources	<ul style="list-style-type: none"> • Each instructor will provide her/his notes to the students

MATERIAL SHARING	
Documents	Textbooks, Lecture presentations, Course notes, Checklists, Laboratory Practice Manuals, Videos
Assignments	
Exams	After the exam; exam questions, question discussions, individual performance analysis reports

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 MED 104 Basic Medical Sciences I	
<u>Committee Exams</u>	: WE + OSPE
Written Exam:	
Number of Questions	: 100
Question Type	: Multiple Choice Questions*
	Committee Score (CS)= 95% of [90% CE (MCQ) + 10% (LPE)] + 5% of
PBL-P	
<u>Final Exam</u>	: WE
Number of Questions	: 200
Question Type	: Multiple Choice Questions*
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	: Multiple Choice Questions*
MCQ: Multiple Choice Questions	

EMQ: Extended Matching Questions
 OSPE: Objective Structured Practical Exam
 WE: Written Examination (WE)
 SRPC: Scientific Research and Publication Course

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

Term Score (Pass or Fail) Calculations***

- Term Score=((60% of CE Average) + (40% of Final Exam Score or Incomplete Exam Score))%98+(SRPC 2%)

Pass; TS ≥ 60

Fail; FES < 50 (barrier point), ICES < 50 (barrier point), or/and TS < 60

The student is exempted from FE, if the CMS is ≥ 80 and all CSs are ≥ 60

- The FE and ICE barrier point is not applied to the students whose all CSs are ≥ 60
- The distribution of questions in the question distribution tables in all exams could be changed by the coordinators.

COURSE CATEGORY

Professional (Knowledge and Skills: physiopathological processes, pathological processes; introduction to clinical practice-advanced clinical skills)

COURSE'S CONTRIBUTION TO PROGRAM

Program Learning Outcomes (APK)	Contribution				
	1	2	3	4	5
1.1.		X			
1.5.			X		
2.1.		X			
2.2.			X		
2.3.		X			
2.4.		X			
2.5		X			

ECTS CREDITS MED 201 Basic Medical Sciences II			
ACTIVITIES	#	Time (hour)	Workload (hour)
Lectures	480	1	480
Laboratory Practices	73	1	73
Scientific Project Writing	1	18	18
Independent Study for Mid-term Exam	359	1	359
Mid-term Exam (MCQ+OSPE)	10	2	20
Independent Study for Final Exam	252	1	252
Final Exam (MCQ)	1	4	4
Scientific Research and Publications Course Exam	1	1	1
Total Workload per Course			1207
ECTS Credits per Course			40