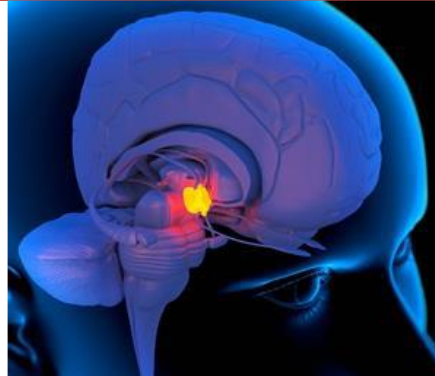




**MARMARA UNIVERSITY – EASTERN MEDITERRANEAN UNIVERSITY
INTERNATIONAL MEDICAL SCHOOL**



**GROWTH, DEVELOPMENT, MENTAL HEALTH AND RELATED DISORDERS
YEAR 3 COURSE 4
March 02 – April 16, 2020**

Year 3 Coordinators

Prof., Arzu Akşit İLKI & Assoc. Prof., Pınar Mega TİBER & Assist. Prof., İlke AKÇAY

Module Coordinator

Prof., Özlem SARIKAYA

Inst. Dr. Duygu GENÇALP

**Introduction to Clinician Skills (ICS)
Coordinators**

Prof., Pemra ÜNALAN

Assoc. Prof., Nilüfer GÜZOĞLU

Coordinator of Clinical Skill Lab.

Prof., Pemra ÜNALAN

Assist. Prof., Bülent SEZGİN

Coordinator of ICS Res. Lab.

Prof., Pemra ÜNALAN

Inst. Dr. Özge EKER

Coordinator of Multidisciplinary Students' Lab.

Assoc. Prof., Betül KARADEMİR

Assist. Prof., Mümtaz GÜRAN

Coordinator of Assessment Unit

Assist. Prof., Cevdet NACAR

Assist. Prof., H. Eren SAKALLI

Vice-Chief Coordinators

Assessment

Assist. Prof., Cevdet NACAR

Assist. Prof., H. Eren SAKALLI

Student Affairs

Assist. Prof., Can ERZİK

Inst. Yöner Meray

Chief Coordinator

Assoc. Prof., Hasan YANANLI

Assist. Prof., Mümtaz GÜRAN

**Coordinator of Medical Education Program
Evaluation and Development Commission**

Prof., Berrak Ç. YEĞEN

Educational Consultant

Assoc. Prof., Mehmet Ali GÜLPINAR

Dean (EMU)

Assoc. Prof., Emre HAMURTEKİN

Dean (MU)

Prof., Hakan GÜNDÜZ

LEARNING OUTCOMES / COMPETENCIES

- A. **Clinical Care: Qualified patient care and community oriented health care**
 1. Basic clinical skills
 2. The organization and management of the patient and the patient care
 3. The organization and the management of health care delivery services / system
 4. Health promotion and disease prevention
- B. **Medical Knowledge and Evidence-Based Medicine**
 5. Appropriate information retrieval and management skills
 6. The integration of knowledge, critical thinking and evidence-based decision making
 7. Scientific methods and basic research skills
- C. **Professional Attitudes and Values**
 8. Communication skills and effective communication with patients / patient relatives
 9. Interpersonal relationships and team working
 10. Ethical and professional values, responsibilities
 11. Individual, social and cultural values and responsibilities
 12. Reflective practice and continuing development
 13. Healthcare delivery systems, management and community oriented health care
 14. Education and counseling

PHASE-1 LEARNING OBJECTIVES

1. Understanding the normal structures and functions of human body
2. Correlating the basic concepts and principles to each other that define health and disease; applying basic concepts and principles to health and disease conditions
3. Developing clinical problem solving, clinical reasoning and evaluation skills by integrating biomedical, clinical, social and humanities knowledge
4. Gaining basic clinical skills by applications in simulated settings.
5. Awareness of the professional values in health and disease processes (professional, individual, societal) and acquisition necessary related skills
6. Evaluating critically and synthesizing all the medical evidence and perform respecting scientific, professional and ethical values
7. Acquisition skills in reflective thinking and practicing, being open to continuous individual / professional development.

PHASES – 1 THEMA/ORGAN SYSTEM-BASED COURSE PROGRAMS

Year 1, Course 1: Introduction to Cell and Cellular Replication

Year 1, Course 2: Cellular Metabolism and Transport

Year 1, Course 3: Development and Organization of Human Body

Year 1, Course 4: Introduction to Nervous System and Human Behavior

Year 2, Course 1: Cell and Tissue Injury I

Year 2, Course 2: Cell and Tissue Injury II

Year 2, Course 3: Hematopoietic System and Related Disorders

Year 2, Course 4: Musculoskeletal, Integumentary Systems and Related Disorders

Year 2, Course 5: Respiratory System and Related Disorders

Year 3, Course 1: Cardiovascular System and Related Disorders

Year 3, Course 2: Gastrointestinal System, Metabolism and Related Disorders

Year 3, Course 3: Nervous System and Related Disorders

Year 3, Course 4: Growth, Development, Mental Health and Related Disorders

Year 3, Course 5: Urinary and Reproductive System and Related Disorders

GROWTH, DEVELOPMENT, MENTAL HEALTH AND RELATED DISORDERS	
<p align="center">AIM and LEARNING OBJECTIVES of COURSE</p> <p>Aim: At the end of this committee, third year students will gain knowledge about the structure, functions and the pathogenesis of the disorders related to endocrine system. During this committee students will gain a comprehensive view on the health problems of the certain periods of human life cycle such as childhood, adolescents and elderly with a specific emphasis on the growth, development and mental health. They will also gain knowledge about the signs and symptoms of endocrine disorders, psychiatric disorders, related risk factors, prevention, diagnosis and principles of treatment.</p> <p>Learning Objectives: At the end of this course, third year students will,</p> <p>review the development, histology and structure of the endocrine system,</p> <ul style="list-style-type: none"> • understand the principles of endocrine homeostasis and hormone action, define the pathologic processes in endocrine and mental disorders, • get knowledge about growth, development and monitoring in childhood, • gain knowledge about the risk factors and preventive measures related to endocrine and mental disorders, • gain knowledge about the major signs and symptoms of endocrine and mental disorders, explain the main determinants of health, • explain the importance and the effects of social, environmental and life style factors on mental and physical health, • gain knowledge about the approach to diagnosis and principles of treatment in endocrine and mental disorders. 	
<p align="center">ASSESSMENT SYSTEM</p> <p>Module examination: Written exam at the end of module (10 % of final score)</p> <p>Practical examination: Practical exams at the end of course</p> <p>Course examination: Written exam at the end of course</p>	<p align="center">PROGRAM EVALUATION</p> <p>Evaluation at the end of the course, is done both orally and by using structured evaluation forms</p>
DEPARTMENTS PARTICIPATING IN COURSE-3.4	
<ul style="list-style-type: none"> • Anatomy • Biochemistry • Child and Adolescent Psychiatry • Family Medicine • Histology and Embryology • Internal Medicine • Medical Genetics • Nuclear Medicine 	<ul style="list-style-type: none"> • Pathology • Pediatrics • Pharmacology • Physiology • Psychiatry • Public Health • Radiology

LECTURERS / TUTORS	
Alper Yıldırım, Assoc. Prof., Physiology Ahmet Arman, Professor, Medical Genetics Ahmet Topuzoğlu, Professor, Public Health Amber Eker Bakkaloğlu, Assoc. Prof., Neurology Atila Karaalp, Professor, Pharmacology Axel Würz, Instructor, Psychiatry Aymelek Yalın, Professor, Anatomy Ayşe Burcu Ataz, Assoc. Prof, Child and Adolescent Psychiatry Berfu Çerçi Öngün, Instructor, Anatomy Beste Melek Atasoy, Professor, Internal Medicine Bülent Sezgin, Assist. Prof., Internal Medicine Cemal Gürkan, Instructor, Forensic Sciences Cihan Tüccar, Inst., Clinical Skills Didem Rfıkı, Inst., Clinical Skills Dilek Gogas Yavuz, Professor, Internal Medicine Dilşad Save, Professor, Public Health Emine Özerinç, Instructor, Turkish Language Filiz Onat, Professor, Pharmacology Goncagül Haklar, Professor of Biochemistry Halil Eren Sakallı, Assist. Prof, Pharmacology Hande Tuğcan, Inst., Indian Dance Hızır Kurtel, Professor, Physiology Huriye Nursel Elçioğlu, Professor, Pediatrics Hülya Gözü, Professor, Internal Medicine İlke Akçay, Assist. Prof, Biostatistics İlter Güney, Assoc. Prof, Medical Genetics	Masoud Afshani, Assist. Prof, Histology and Embryology Mesut Yıldız, Assoc. Prof, Psychiatry Nahide Gökçora, Professor, Nuclear Medicine Nevin Yılmaz, Prof., Internal Medicine/ Gastroenterology Nilüfer Güzoğlu, Assoc. Prof., Neonatology Nimet Emel Lüleci, Professor, Public Health Nurtane Karagil, Instructor, Arts and Crafts Onur Buğdaycı, Assist. Prof., Radiology Özge Eker, Inst., Molecular Biology and Genetics Önder Şirikçi, Prof., Biochemistry Özlem Sarıkaya, Professor of Medical Education Özlem Tuğçe Kaya, Instructor, Histology and Embryology Özlem Üstay, Assoc. Prof, Internal Medicine Pelin Bağcı, Prof., Pathology Saime Batirel, Assoc. Prof, Medical Biochemistry Serap Çifçili, Professor, Family Medicine Tülay Güran, Professor, Pediatrics Volkan Topçuoğlu, Professor, Psychiatry Yasemin Kurtoğlu, Inst., Aerial Fitness Yaşar İnci Alican, Professor, Physiology Yıldız Akvardar, Professor, Psychiatry Zafer Gören, Professor, Pharmacology Zeliha Leyla Cinel, Professor, Pathology
READING / STUDYING MATERIALS	
<ul style="list-style-type: none">• Williams Textbook of Endocrinology. 10th ed./P.Reed Larsen. et al.• Joslin's Diabetes Mellitus. 14th ed./ Edited by C. Ronald Kahn et al.• Kaplan & Sadock's Comprehensive Textbook of Psychiatry. Editors, Benjamin J.,Sadock, Virginia A. Sadock.• Nelson Textbook of Pediatrics.17th ed./Richard E. Behrman, Robert M. Kliegman, Hal B. Jenson.• Basic Pathology. Vinay Kumar, Ramzi S. Cotran, Stanley L. Robbins.• Color Textbook of Histology. Leslie P. Gartner, James L. Hiatt• Histology and Cell Biology: An Introduction to Pathology. Abraham L.Kierszenbaum• Clinical Pharmacology. D.R. Laurence, P.N. Bennet, M.J. Brown Clinical Anatomy for Medical Students. Richard S. Snell Textbook of Medical Physiology. Arthur C. Guyton, John E. Hall	

Last Updated on April 22, 2020
Summary table updated April 21, 2025

SUMMARY OF THE COURSE 3.4			
Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Anatomy	1	1	2
Biochemistry	10		10
Child and Adolescent Psychiatry	4		4
Family Medicine	4		4
Histology and Embryology	4	2	4
Internal Medicine	18		18
Medical Genetics	4		4
Nuclear Medicine	1		1
Pathology	6	1	7
Pediatrics	11		11
Pharmacology	13		13
Physiology	13		13
Psychiatry	21		21
Public Health	12		12
Radiology	1		1
Subtotal	123	4	127
PBL Module	8		8
ICS-3: Basic Medical Practices, Clinical Skills Lab.		28	28
Turkish for Medical Students - IV	26		26
Turkish for Medical Students – IV (Interactive Session)		7	
Elective Course	8		8
TOTAL	179	29	208

Last Updated on April 22, 2020
Summary table updated April 21, 2025

	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
WEEK 1 (March 02-06, 2020)		
Monday	March 02	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
	Elective Course-III (Turkish Students) MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
16:40-17:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
	Elective Course-III (Turkish Students) MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	March 03	
08:40-09:30	STUDY TIME	
09:40-10:30	Introduction to the course	Dr. İlke Akçay
10:40-11:30	Thyroid and parathyroid glands	Dr. Aymelek Yalın
11:40-12:30	Anatomy LAB: Thyroid and parathyroid glands	Dr. Aymelek Yalın Dr. Befe Çerçi Öngün
13:40-14:30	Hypothalamus and the growth hormone	Dr. Alper Yıldırım
14:40-15:30	Hypothalamus and the growth hormone	Dr. Alper Yıldırım
15:40-16:30	Adrenal medullary hormones	Dr. Alper Yıldırım
16:40-17:30		
Wednesday	March 04	
08:40-09:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
10:40-11:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
11:40-12:30	Turkish for Medical Students - IV	Inst. Emine Özerinç

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13:40-14:30	Biosynthesis and metabolism of thyroid hormones	Dr. Goncagül Haklar
14:40-15:30	Biosynthesis and metabolism of thyroid hormones	Dr. Goncagül Haklar
15:40-16:30	Endocrine function of pancreas	Dr. Goncagül Haklar
16:40-17:30	Endocrine function of pancreas	Dr. Goncagül Haklar
Thursday	March 05	
08:40-09:30	STUDY TIME	
09:40-10:30	Pharmacotherapy of disorders of calcium metabolism	Dr. Eren Sakallı
10:40-11:30	Endemic goiter	Dr. Nimet Emel Lülecı
11:40-12:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
13:40-14:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
16:40-17:30	STUDY TIME	
Friday	March 06	
08:40-09:30	ICS-3: Polyclinic Visits	Dr. Bülent Sezgin Dr. Didem Rıfki Dr. Cihan Tüccar Ins. Emine Özerinç
09:40-10:30	ICS-3: Polyclinic Visits	
10:40-11:30	ICS-3: Polyclinic Visits	
11:40-12:30	ICS-3: Polyclinic Visits	
13:40-14:30	ICS-3: Polyclinic Visits	Dr. Bülent Sezgin Dr. Didem Rıfki Dr. Cihan Tüccar Ins. Emine Özerinç
14:40-15:30	ICS-3: Polyclinic Visits	
15:40-16:30	ICS-3: Polyclinic Visits	
16:40-17:30	ICS-3: Polyclinic Visits	
WEEK 2 (March 09-13, 2020)		
Monday	March 09	
08:40-09:30	ICS-3 Research: Data analysis	Dr. İlke Akçay, Dr. Özge Eker
09:40-10:30	ICS-3 Research: Data analysis	Dr. İlke Akçay, Dr. Özge Eker
10:40-11:30	ICS-3 Research: Data analysis	Dr. İlke Akçay, Dr. Özge Eker
11:40-12:30	ICS-3 Research: Data analysis	Dr. İlke Akçay, Dr. Özge Eker
13:40-14:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
	Elective Course-III (Turkish Students) MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan

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	MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Inst. Yasemin Kurtoğlu
16:40-17:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
	Elective Course-III (Turkish Students) MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	March 10	
08:40-09:30	STUDY TIME	
09:40-10:30	Genetic disorders of thyroid and parathyroid glands	Dr. Ahmet İlter Güney
10:40-11:30	Genetic basis of diabetes mellitus	Dr. Ahmet İlter Güney
11:40-12:30	Genetic basis of sexual differentiation	Dr. Ahmet İlter Güney

Kovid-19 pandemisi sebebiyle 10 Mart 2020 tarihinden itibaren sınıfta eğitime ara verilmiştir ve uzaktan eğitim yoluyla devam edilmektedir.

Due to the Covid-19 pandemic, education in classrooms has been suspended and continues through distance learning.

<https://medicine.emu.edu.tr/en/students/current-students/committees/distance-learning-time-table>