



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



**NERVOUS SYSTEM AND RELATED DISORDERS
YEAR 3 COURSE 3
December 24th, 2018 – March 1th, 2019**

Year 3 Coordinators

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

Module Coordinator

Prof., Özlem SARIKAYA
Inst. Dr. Berfu ÇERÇİ ÖNGÜN

Introduction to Clinician Skills (ICS) Coordinators

Prof., Pemra ÜNALAN
Assist. Prof., Bülent SEZGIN

Coordinator of Clinical Skill Lab.

Prof., Pemra ÜNALAN
Assist. Prof., Bülent SEZGIN

Coordinator of ICS Res. Lab.

Prof., Sibel SAKARYA
Assist. Prof., İlke AKÇAY

Coordinator of Multidisciplinary Students' Lab.

Assoc. Prof., Betül KARADEMİR
Assist. Prof., Mümtaz GÜRAN

Coordinator of Assessment Unit

Assist. Prof., Cevdet NACAR
Assist. Prof., Can ERZİK
Assist. Prof., H. Eren SAKALLI

Vice-Chief Coordinators

Assessment

Assist. Prof., Cevdet NACAR
Assist. Prof., H. Eren SAKALLI

Student Affairs

Assist. Prof., Can ERZİK
Assist. Prof., İlke AKÇAY
Assist. Prof., Mümtaz GÜRAN

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

Prof., Mehmet Ali GÜLPINAR

Dean (EMU)

Prof., Nahide GÖKÇORA

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

NERVOUS SYSTEM AND RELATED DISORDERS

AIM and LEARNING OBJECTIVES of COURSE

Aim: At the end of this course, third year students will gain knowledge about the development, structure and physiology of the nervous system and pathogenesis of the disorders related to this system. They will also gain knowledge about the signs and symptoms of nervous system disorders, related risk factors, prevention, diagnosis and principles of treatment.

Learning Objectives: At the end of this course, third year students will,

- review the structure and function of the nervous system.
- define the pathologic processes in neurological disorders
- gain knowledge about microorganism that affect the nervous system and associated infections
- gain knowledge about the risk factors related to neurological disorders
- gain knowledge about the signs and symptoms of these disorders
- gain knowledge about the prevention of nervous system disorders, approach to diagnosis, principles of treatment and rehabilitation

ASSESSMENT SYSTEM

Module examination: Written exam at the end of module (10 % of final score)

Practical examination: Practical exams at the end of course

Course examination: Written exam at the end of course

PROGRAM EVALUATION

Evaluation at the end of the course, is done both orally and by using structured evaluation forms

DEPARTMENTS PARTICIPATING IN COURSE-3.3

- Anatomy
- Anesthesiology
- Biophysics
- Family Medicine
- Histology and Embryology
- Medical Genetics
- Microbiology
- Neurology

- Neurosurgery
- Pathology
- Pediatrics
- Pharmacology
- Physical Medicine and Rehabilitation
- Physiology
- Public Health

LECTURERS / TUTORS

Ahmet Akıcı, Prof., Pharmacology Ahmet Topuzođlu, Prof., Public Health Alper Yıldırım, Assoc. Prof., Physiology Atila Karaalp, Prof., Pharmacology Aymelek Yalın, Prof., Anatomy Ayşe Garip İnhan, Assoc. Prof., Biophysics Ayşegül Karahasan, Prof., Microbiology Barış İşak, Assoc. Prof., Neurology Beliz Bilgili, Assist. Prof., Anesthesiology and Reanimation Berfu Çerçi Öngün, Inst., Anatomy Burak Aksu, Assist. Prof., Microbiology Bülent Sezgin, Assist. Prof., Internal Medicine Cemal Gürkan, Inst., Forensic Sciences Dilek Akakin, Assoc. Prof., Histology and Embryology Dilek İnce Günal, Prof., Neurology Didem Rıfkı, Inst., Clinical Skills Emine Özerinç, Inst., Turkish Language Emel Lüleci, Prof., Public Health Ferhat Harman, Assoc. Prof., Neurosurgery Halil Eren Sakallı, Assist. Prof., Pharmacology	Hande Tuğcan, Inst., Indian Dance İpek Gürsoy Midi, Prof., Neurology Kadriye Ađan Yıldırım, Prof., Neurology Masoud Afshani, Assist. Prof., Histology and Embryology Mehmet Akman, Prof., Family Medicine Nurtane Karagil, Inst., Arts and Crafts Olcay Ünver, Assist. Prof., Pediatrics Önder Kayhan, Prof., Physical Medicine And Rehabilitation Özgür Kasımay Çakır, Assoc. Prof., Physiology Pelin Bağcı, Assoc. Prof., Pathology Pemra C. Ünal, Prof., Family Medicine Pınar Ata, Prof., Medical Genetics Pınar Kahraman Koytak, Assist. Prof., Neurology Pınar Mega Tiber, Assoc. Prof., Biophysics Tülin Tanrıdađ, Prof., Neurology Ural Verimli, Assist. Prof., Anatomy Ümit S. Şehirli, Prof., Anatomy Yasemin Kurtođlu, Inst., Aerial Fitness Zafer Gören, Prof., Pharmacology
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READING / STUDYING MATERIALS

- Biochemistry; Stryer, 4th ed., Freeman
- Biochemistry; Zubay, 3rd ed., WCB
 - Clinical Anatomy for Medical Students; Richard S. Snell
 - Clinically Oriented Anatomy; Keith L. Moore, Arthur F. Dalley
 - Color Textbook of Histology; Gartner & Hiatt, 3rd ed., Elsevier Health Sciences, 2004
 - D.H. Hubel; Eye, Brain and Vision
 - Gray Anatomy; Çeviri Editörü: Prof. Dr. Mehmet YILDIRIM, Güneş Kitabevi, 2006
 - Gray's Anatomy for Students; Richard L. Drake, Henry Gray, Adam W.M. Mitchell
 - Guyton & Hall ; Textbook of Physiology, 11th edition, Elsevier-Saudersd, 2006.
 - Histology A Text and Atlas; Michael H Ross, Michael R. Ross, Wojciech Pawlina, 5th ed. Lippincott Williams & Wilkins, 2006
 - Histoloji ve Hücre Biyolojisi; Abraham L.Kierzenbaum; Çeviri editorü: Ramazan Demir, Palme Yayıncılık - Ankara, 2006
 - Human Histology: Alan Stevens, James Lowe, 3rd ed., Elsevier Health Sciences, 2004
 - M.F. Baer, Connors & Paradiso; Neuroscience 2nd ed.

SUMMARY OF THE COURSE 3.3			
Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Anatomy	30	11	41
Anesthesiology	1		1
Biophysics	1	1	2
Family Medicine	3		3
Histology and Embryology	2	1	3
Medical Genetics	1		1
Microbiology	5		5
Neurology	12		12
Neurosurgery	2		2
Pathology	11	1	13
Pediatrics	2		2
Pharmacology	8		8
Physical Medicine and Rehabilitation	2		2
Physiology	11		11
Public Health	3		3
Subtotal	94	14	108
PBL Module		8	8
ICS-3: Basic Medical Practices, Clinical Skills Lab.		20	20
Turkish for Medical Students – IV	28	0	28
Turkish for Medical Students – IV (Interactive Session)		14	14
Elective Course	8		8
TOTAL	130	56	186

	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
1st Week (24 December - 28 December) 2018		
Monday	24 December	
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
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students	Dr. Cemal Gürkan Inst. Nurtane Karagil
16:40-17:30	MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	25 December	
08:40-09:30	CHRISTMAS DAY	
09:40-10:30	CHRISTMAS DAY	
10:40-11:30	CHRISTMAS DAY	
11:40-12:30	CHRISTMAS DAY	
13:40-14:30	CHRISTMAS DAY	
14:40-15:30	CHRISTMAS DAY	
15:40-16:30	CHRISTMAS DAY	
16:40-17:30	CHRISTMAS DAY	
Wednesday	26 December	
08:40-09:30	STUDY TIME	
09:40-10:30	Introduction to the course	Dr. İlke Akçay
10:40-11:30	Meninges & dural sinuses of the brain	Dr. Aymelek Yalın
11:40-12:30	Meninges & dural sinuses of the brain	Dr. Aymelek Yalın
13:40-14:30	General structure of the spinal cord	Dr. Aymelek Yalın
14:40-15:30	General structure of the spinal cord	Dr. Aymelek Yalın
15:40-16:30	Anatomy LAB: Spinal cord – Group A	Dr. Aymelek Yalın Dr. Berfu Çerçi Öngün
16:40-17:30	Anatomy LAB: Spinal cord – Group B	Dr. Aymelek Yalın Dr. Berfu Çerçi Öngün
Thursday	27 December	
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 (Interactive Session)	Inst. Emine Özerinç
11:40-12:30	Cerebral cortex: functional areas & general topography	Dr. Ümit S. Şehirli
13:40-14:30	Cerebral cortex: functional areas & general topography	Dr. Ümit S. Şehirli
14:40-15:30	Limbic system and pineal gland	Dr. Ümit S. Şehirli
15:40-16:30	Anatomy LAB: Cerebral cortex: functional areas & general topography – Group A	Dr. Ümit S. Şehirli Dr. Berfu Çerçi Öngün
16:40-17:30	Anatomy LAB: Cerebral cortex: functional areas & general topography – Group B	Dr. Ümit S. Şehirli Dr. Berfu Çerçi Öngün

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Friday	28 December	
08:40-09:30	STUDY TIME	
09:40-10:30	Descending pathways	Dr. Aymelek Yalın
10:40-11:30	Ascending pathways	Dr. Aymelek Yalın
11:40-12:30	Ascending pathways	Dr. Aymelek Yalın
13:40-14:30	Anatomy LAB: Meninges & dural sinuses of the brain – Group A	Dr. Aymelek Yalın Dr. Berfu Çerçi Öngün
14:40-15:30	Anatomy LAB: Meninges & dural sinuses of the brain – Group B	Dr. Aymelek Yalın Dr. Berfu Çerçi Öngün
15:40-16:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özeriç
16:40-17:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özeriç
2nd Week (31 December 2018 - 4 January) 2019		
Monday	31 December	
08:40-09:30	NEW YEAR'S EVE	
09:40-10:30	NEW YEAR'S EVE	
10:40-11:30	NEW YEAR'S EVE	
11:40-12:30	NEW YEAR'S EVE	
13:40-14:30	NEW YEAR'S EVE	
14:40-15:30	NEW YEAR'S EVE	
15:40-16:30	NEW YEAR'S EVE	
16:40-17:30	NEW YEAR'S EVE	
Tuesday	01 January	
08:40-09:30	NEW YEAR'S DAY	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Wednesday	02 January	
08:40-09:30	STUDY TIME	
09:40-10:30	Brain stem	Dr. Aymelek Yalın
10:40-11:30	Brain stem	Dr. Aymelek Yalın
11:40-12:30	Brain stem	Dr. Aymelek Yalın
13:40-14:30	Cranial nerves	Dr. Aymelek Yalın
14:40-15:30	Cranial nerves	Dr. Aymelek Yalın
15:40-16:30	Genetic basis of neurological diseases	Dr. Pınar Ata
16:40-17:30	STUDY TIME	
Thursday	03 January	
08:40-09:30	Anatomy LAB: Brain stem – Group A	Dr. Aymelek Yalın Dr. Berfu Çerçi Öngün
09:40-10:30	Anatomy LAB: Brain stem – Group B	Dr. Aymelek Yalın Dr. Berfu Çerçi Öngün

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10:40-11:30	Cranial nerves	Dr. Aymelek Yalın
11:40-12:30	Cranial nerves	Dr. Aymelek Yalın
13:40-14:30	Anatomy LAB: Cranial nerves – Group A	Dr. Aymelek Yalın Dr. Berfu Çerçi Öngün
14:40-15:30	Anatomy LAB: Cranial nerves – Group B	Dr. Aymelek Yalın Dr. Berfu Çerçi Öngün
15:40-16:30	Spinal reflexes	Dr. Özgür Kasımay Çakır
16:40-17:30	Spinal reflexes	Dr. Özgür Kasımay Çakır
Friday	04 January	
08:40-09:30	STUDY TIME	
09:40-10:30	Principles of CT and MRI	Dr. Ayşe Garip İhan
10:40-11:30	Biophysics LAB: Principles of EEG-Group A	Dr. Pınar Mega Tiber Dr. Ayşe Garip İhan
11:40-12:30	Biophysics LAB: Principles of EEG-Group B	Dr. Pınar Mega Tiber Dr. Ayşe Garip İhan
13:40-14:30	Biophysics LAB: Principles of EEG-Group C	Dr. Pınar Mega Tiber Dr. Ayşe Garip İhan
14:40-15:30	Biophysics LAB: Principles of EEG-Group D	Dr. Pınar Mega Tiber Dr. Ayşe Garip İhan
15:40-16:30	Turkish for Medical Students – IV	Inst. Emine Özerinç
16:40-17:30	Turkish for Medical Students – IV	Inst. Emine Özerinç
3rd Week (7 January - 11 January) 2019		
Monday	07 January	
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
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Tuesday	08 January	
08:40-09:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
10:40-11:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
11:40-12:30	Cerebrum, cerebellum and spinal cord	Dr. Masoud Afshani
13:40-14:30	Bacterial and aseptic meningitis	Dr. Burak Aksu
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Wednesday	09 January	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	Introduction to pediatric neurology: From symptoms to signs	Dr. Olcay Ünver
11:40-12:30	Infectious diseases of the nervous system	Dr. Olcay Ünver

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13:40-14:30	Adult patient with paresthesia, arthralgia and lethargia	Dr. Mehmet Akman
14:40-15:30	Epidemiology of neurological diseases	Dr. Emel Lüleci
15:40-16:30	Epidemiology and control of dementias	Dr. Ahmet Topuzoğlu
16:40-17:30	Epidemiology and prevention of occupational neurological disorders	Dr. Ahmet Topuzoğlu
Thursday	10 January	
08:40-09:30	ICS-3: Polyclinics Visit & Communication in Turkish IV	Dr. Bülent Sezgin
09:40-10:30	ICS-3: Polyclinics Visit & Communication in Turkish IV	Dr. Didem Rıfki
10:40-11:30	ICS-3: Polyclinics Visit & Communication in Turkish IV	Dr. Cihan Tüccar
11:40-12:30	ICS-3: Polyclinics Visit & Communication in Turkish IV	Inst. Emine Özerinç
13:40-14:30	ICS-3: Polyclinics Visit & Communication in Turkish IV	Dr. Bülent Sezgin
14:40-15:30	ICS-3: Polyclinics Visit & Communication in Turkish IV	Dr. Didem Rıfki
15:40-16:30	ICS-3: Polyclinics Visit & Communication in Turkish IV	Dr. Cihan Tüccar
16:40-17:30	ICS-3: Polyclinics Visit & Communication in Turkish IV	Inst. Emine Özerinç
Friday	11 January	
08:40-09:30	Y1C2 THEORETICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
16:40-17:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
4th Week (14 January - 18 January) 2019		
Monday	14 January	
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
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students	Dr. Cemal Gürkan Inst. Nurtane Karagil
16:40-17:30	MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	15 January	
08:40-09:30	STUDY TIME	
09:40-10:30	Slow virus infections and prion diseases	Dr. Ayşegül Karahasan
10:40-11:30	Rabies	Dr. Ayşegül Karahasan
11:40-12:30	Tetanus	Dr. Ayşegül Karahasan
13:40-14:30	Poliomyelitis	Dr. Ayşegül Karahasan
14:40-15:30	PBL Module 1	Dr. Halil Eren Sakallı Dr. Bülent Sezgin
15:40-16:30	PBL Module 1	Dr. Didem Rıfki

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16:40-17:30	STUDY TIME	
Wednesday	16 January	
08:40-09:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
10:40-11:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
11:40-12:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	17 January	
08:40-09:30	Vessels of the central nervous system	Dr. Ümit S. Şehirli
09:40-10:30	Vessels of the central nervous system	Dr. Ümit S. Şehirli
10:40-11:30	Anatomy LAB: Vessels of the central nervous system – Group A	Dr. Ümit S. Şehirli Dr. Berfu Çerçi Öngün
11:40-12:30	Anatomy LAB: Vessels of the central nervous system – Group B	Dr. Ümit S. Şehirli Dr. Berfu Çerçi Öngün
13:40-14:30	Basal ganglia subthalamus	Dr. Ümit S. Şehirli
14:40-15:30	Basal ganglia subthalamus	Dr. Ümit S. Şehirli
15:40-16:30	Hypothalamus and pituitary gland	Dr. Ümit S. Şehirli
16:40-17:30	Thalamus	Dr. Ümit S. Şehirli
Friday	18 January	
08:40-09:30	Brain stem review	Dr. Alper Yıldırım
09:40-10:30	Cognitive and emotional functions	Dr. Alper Yıldırım
10:40-11:30	Cognitive and emotional functions	Dr. Alper Yıldırım
11:40-12:30	Cerebrospinal circulation	Dr. Alper Yıldırım
13:40-14:30	Extrapyramidal system disorders	Dr. Dilek İnce Günal
14:40-15:30	Demyelinating disorders	Dr. Dilek İnce Günal
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
5th Week (21 January - 25 January) 2019		
Monday	21 January	
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
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students	Dr. Cemal Gürkan Inst. Nurtane Karagil
16:40-17:30	MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	22 January	
08:40-09:30	Signs and symptoms in neurology	Dr. İpek Gürsoy Midi

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09:40-10:30	Signs and symptoms in neurology	Dr. İpek Gürsoy Midi
10:40-11:30	Cerebrovascular disease	Dr. İpek Gürsoy Midi
11:40-12:30	Cerebrovascular disease	Dr. İpek Gürsoy Midi
13:40-14:30	Histology LAB: Cerebrum, cerebellum and spinal cord	Dr. Masoud Afshani
14:40-15:30	PBL STUDY TIME	
15:40-16:30	PBL Module 2	Dr. Halil Eren Sakallı Dr. Bülent Sezgin
16:40-17:30	PBL Module 2	Dr. Didem Rıfki
Wednesday	23 January	
08:40-09:30	ICS-3: CSL-Neurologic Examination	Dr. Pınar Kahraman Koytak
09:40-10:30	ICS-3: CSL-Neurologic Examination	Dr. Bülent Sezgin
10:40-11:30	ICS-3: CSL-Neurologic Examination	Dr. Didem Rıfki
11:40-12:30	ICS-3: CSL-Neurologic Examination	Dr. Cihan Tüccar
13:40-14:30	ICS-3: CSL-Neurologic Examination	Dr. Pınar Kahraman Koytak
14:40-15:30	ICS-3: CSL-Neurologic Examination	Dr. Bülent Sezgin
15:40-16:30	ICS-3: CSL-Neurologic Examination	Dr. Didem Rıfki
16:40-17:30	ICS-3: CSL-Neurologic Examination	Dr. Cihan Tüccar
Thursday	24 January	
08:40-09:30	Autonomic nervous system	Dr. Ural Verimli
09:40-10:30	Autonomic nervous system	Dr. Ural Verimli
10:40-11:30	Organization of the cortex; motor cortex and corticospinal system	Dr. Alper Yıldırım
11:40-12:30	Organization of the cortex; motor cortex and corticospinal system	Dr. Alper Yıldırım
13:40-14:30	Cerebellum	Dr. Alper Yıldırım
14:40-15:30	Cerebellum	Dr. Alper Yıldırım
15:40-16:30	The basal nuclei	Dr. Alper Yıldırım
16:40-17:30	Review: Development of the Nervous System	Dr. Dilek Akakin
Friday	25 January	
08:40-09:30	Anatomy LAB: Basal ganglia, thalamus, subthalamus – Group A	Dr. Ural Verimli Dr. Berfu Çerçi Öngün
09:40-10:30	Anatomy LAB: Basal ganglia, thalamus, subthalamus – Group B	Dr. Ural Verimli Dr. Berfu Çerçi Öngün
10:40-11:30	Anatomy LAB: Brain ventricles and subarachnoid spaces – Group A	Dr. Ural Verimli Dr. Berfu Çerçi Öngün
11:40-12:30	Anatomy LAB: Brain ventricles and subarachnoid spaces – Group B	Dr. Ural Verimli Dr. Berfu Çerçi Öngün
13:40-14:30	Vestibular system and auditory pathway	Dr. Ural Verimli
14:40-15:30	Vestibular system and auditory pathway	Dr. Ural Verimli
15:40-16:30	Cerebellum	Dr. Ural Verimli
16:40-17:30	STUDY TIME	

**29 JANUARY – 09 FEBRUARY
SEMESTER HOLIDAY**

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6th Week (11 February - 15 February) 2019		
Monday	11 February	
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
13:40-14:30	White matter of cerebrum	Dr. Ümit S. Şehirli
14:40-15:30	Visual pathway	Dr. Ümit S. Şehirli
15:40-16:30	Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal – Group A	Dr. Ümit S. Şehirli Dr. Berfu Çerçi Öngün
16:40-17:30	Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal – Group B	Dr. Ümit S. Şehirli Dr. Berfu Çerçi Öngün
Tuesday	12 February	
08:40-09:30	Local and general anesthetics	Dr. Ahmet Akıcı
09:40-10:30	Local and general anesthetics	Dr. Ahmet Akıcı
10:40-11:30	Peripheral nerve disorders	Dr. Barış İşak
11:40-12:30	Peripheral nerve disorders	Dr. Barış İşak
13:40-14:30	Motor neuron disorders	Dr. Barış İşak
14:40-15:30	PBL STUDY TIME	
15:40-16:30	PBL Module 3	Dr. Halil Eren Sakallı Dr. Bülent Sezgin
16:40-17:30	PBL Module 3	Dr. Didem Rıfki
Wednesday	13 February	
08:40-09:30	STUDY TIME	
09:40-10:30	Pharmacotherapy of Parkinson's disease	Dr. Halil Eren Sakallı
10:40-11:30	Headache in Primary Care	Dr. Pemra Ünalın
11:40-12:30	Headache in Primary Care	Dr. Pemra Ünalın
13:40-14:30	ICS-3: Combining Medical Practice (CMPS)-1	Dr. Pemra Ünalın
14:40-15:30	ICS-3: Combining Medical Practice (CMPS)-1	Dr. Bülent Sezgin
15:40-16:30	ICS-3: Combining Medical Practice (CMPS)-1	Dr. Didem Rıfki
16:40-17:30	ICS-3: Combining Medical Practice (CMPS)-1	Dr. Cihan Tüccar
Thursday	14 February	
08:40-09:30	Introduction to CNS pharmacology	Dr. Halil Eren Sakallı
09:40-10:30	Pharmacotherapy in epilepsy	Dr. Halil Eren Sakallı
10:40-11:30	Clinical pharmacology of opioids	Dr. Halil Eren Sakallı
11:40-12:30	Basic principles of action of drugs affecting neurotransmission	Dr. Halil Eren Sakallı
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	15 February	
08:40-09:30	Y2C3 THEORETICAL EXAM	
09:40-10:30		
10:40-11:30		

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11:40-12:30		
13:40-14:30	Anatomy LAB: Cerebellum – Group A	Dr. Ural Verimli Dr. Berfu Çerçi Öngün
14:40-15:30	Anatomy LAB: Cerebellum – Group B	Dr. Ural Verimli Dr. Berfu Çerçi Öngün
15:40-16:30	Anatomy LAB: Autonomic Nervous System – Group A	Dr. Ural Verimli Dr. Berfu Çerçi Öngün
16:40-17:30	Anatomy LAB: Autonomic Nervous System – Group B	Dr. Ural Verimli Dr. Berfu Çerçi Öngün
7th Week (18 February - 22 February) 2019		
Monday	18 February	
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
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students	Dr. Cemal Gürkan Inst. Nurtane Karagil
16:40-17:30	MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	19 February	
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	Introduction to pathology of muscle diseases and peripheral nerve	Dr. Pelin Bağcı
14:40-15:30	Nervous system malformations	Dr. Pelin Bağcı
15:40-16:30	Pathology of central nervous system infections	Dr. Pelin Bağcı
16:40-17:30	Pathology of central nervous system infections	Dr. Pelin Bağcı
Wednesday	20 February	
08:40-09:30	Pathology of demyelinating diseases	Dr. Pelin Bağcı
09:40-10:30	Nervous system tumors	Dr. Pelin Bağcı
10:40-11:30	Nervous system tumors	Dr. Pelin Bağcı
11:40-12:30	Pathology of cerebrovascular disease	Dr. Pelin Bağcı
13:40-14:30	PBL Module 4	Dr. Halil Eren Sakallı Dr. Bülent Sezgin Dr. Didem Rıfki
14:40-15:30	PBL Module 4	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	21 February	
08:40-09:30	Pathology of cerebrovascular disease	Dr. Pelin Bağcı
09:40-10:30	Pathology LAB: Pathology of central nervous system	Dr. Pelin Bağcı
10:40-11:30	Pathology LAB: Pathology of central nervous system	Dr. Pelin Bağcı

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11:40-12:30	Basic histopathologic neuronal reaction to injury	Dr. Pelin Bağcı
13:40-14:30	Neurodegenerative diseases & dementia	Dr. Pelin Bağcı
14:40-15:30	Spinal trauma and degenerative diseases	Dr. Ferhat Harman
15:40-16:30	Head trauma and increased intracranial pressure	Dr. Ferhat Harman
16:40-17:30	STUDY TIME	
Friday	22 February	
08:40-09:30	STUDY TIME	
09:40-10:30	Rehabilitation of neurological disorders	Dr. Önder Kayhan
10:40-11:30	Rehabilitation of neurological disorders	Dr. Önder Kayhan
11:40-12:30	Pharmacotherapy of cognitive disorders	Dr. Zafer Gören
13:40-14:30	Management of pain	Dr. Beliz Bilgili
14:40-15:30	Sleep and sleep disorders	Dr. Kadriye Ağan Yıldırım
15:40-16:30	Epilepsy	Dr. Kadriye Ağan Yıldırım
16:40-17:30	Epilepsy	Dr. Kadriye Ağan Yıldırım
8th Week (25 February - 1 March) 2019		
Monday	25 February	
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	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Tuesday	26 February	
08:40-09:30	ANATOMY PRACTICAL EXAM (starts at 10:30)	Dr. Berfu Çerçi Öngün
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Wednesday	27 February	
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	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	

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Thursday	28 February	
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	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	01 March	
08:40-09:30	Y3C3 THEORETICAL EXAM (starts at 9:30)	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
	Y3C3 courses that are postponed to the next committee	
	Headache in the emergency room	Dr. Tülin Tanrıdağ
	Neurological emergencies	Dr. Tülin Tanrıdağ
	Myopathies and myasthenia gravis	Dr. Tülin Tanrıdağ
	Dementia, Alzheimer's disease and related dementias	Dr. Tülin Tanrıdağ
	Anesthetic premedication	Dr. Atila Karaalp
	Skeletal muscle relaxants	Dr. Atila Karaalp