



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



**NERVOUS SYSTEM AND RELATED DISORDERS
YEAR 3 COURSE 3
January 8th, 2018 – March 9th, 2018**

Year 3 Coordinators

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

Module Coordinator Assoc. Prof., Özlem SARIKAYA & Assist. Prof., H. Eren SAKALLI	Introduction to Clinician Skills (ICS) Coordinators Assoc. Prof., Pemra ÜNALAN & Assist. Prof., Bülent SEZGIN
Coordinator of Clinical Skill Lab. Assoc. Prof., Pemra ÜNALAN & Inst., Berfu Çerçi ÖNGÜN	Coordinator of ICS Res. Lab. Prof., Sibel SAKARYA & Assist. Prof., Mevhibe HOCAOĞLU
Coordinator of Multidiciplinary Students' Lab. Assoc. Prof., Betül KARADEMİR & Assist. Prof., Mümtaz GÜRAN	Coordinator of Assessment Unite Asisst. Prof., Cevdet NACAR & Assist. Prof., Mümtaz GÜRAN & Assist. Prof., Mevhibe HOCAOĞLU & Assist. Prof., H. Eren SAKALLI
Vice-Chief Coordinators	
Assessment Asisst. Prof., Cevdet NACAR & Assist. Prof., Mümtaz GÜRAN	Student Affairs Asisst. Prof., Can ERZİK & Assist. Prof., İlke AKÇAY
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) 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 Biology
- Microbiology
- Neurology

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

LECTURERS / TUTORS

<p>Alper Yıldırım, Assist. Prof., Physiology Atila Karaalp, Prof., Pharmacology Aymelek Yalın, Prof., Anatomy Ayşe Garip İnhan, Assoc. Prof., Biophysics Barış İşak, Assoc. Prof., Neurology Berfu Çerçi Öngün , Instructor, Anatomy Burak Aksu, Assist. Prof., Microbiology Bülent Sezgin, Assist. Prof., Internal Medicine Cemal Gürkan, Instructor, Forensic Sciences Dilek Akakin, Assoc. Prof., Histology and Embryology Dilek İnce Günal, Prof., Neurology Duygu Gençalp, Instructor, Biochemistry Emel Lüleci, Assoc. Prof. of Public Health Emine Özerinç, Instructor, Turkish Language Ferhat Harman, Assoc. Prof., Neurosurgery Filiz Onat, Prof., Pharmacology Halil Eren Sakallı, Assist. Prof., Pharmacology Hasan Toper, Assit. Prof., Pathology İnci Alican, Prof., Physiology İpek Gürsoy Midi, Assoc. Prof., Neurology Kadriye Ağan Yıldırım, Assoc. Prof., Neurology Masoud Afshani, Instructor, Histology and Embryology</p>	<p>Mehmet Akman, Assoc. Prof. of Family Medicine Nurtane Karagil, Instructor of Arts and Crafts Nurver Ülger, Prof., Microbiology Olcay Ünver, Assist. Prof., Pediatrics Önder Kayhan, Prof., Physical Medicine And Rehabilitation Özgür Kasımay Çakır, Assoc. Prof., Physiology Özlem Tuğçe Kaya, Instructor, Histology and Embryology Pelın Çorman Dinçer, Assist. Prof., Anesthesiology and reanimation Pemra C. Ünalın, Prof., Family Medicine Pınar Ata, Assoc. Prof., Medical Biology Pınar Kahraman Koytak, Assist. Prof., Neurology Pınar Mega Tiber, Assoc. Prof., Biophysics Rezzan Gülhan, Assoc. Prof., Pharmacology Süheyla Bozkurt, Assoc. Prof., Pathology, Tülin Tanrıdağ, Prof., Neurology Tülin Tuğlular, Prof., Radiation Oncology Ufuk Hasdemir, Prof., Microbiology Umut Altunç, Instructor, Pediatrics Ural Verimli, Assist. Prof., Anatomy Ümit Şehirli, Prof., Anatomy Zafer Gören, Prof., Pharmacology</p>
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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 Anatomi; 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.

Last Updated on March 06, 2018

Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Anatomy	32	11	43
Anesthesiology	1		1
Biophysics	1	2	3
Pediatrics	2		2
Family Medicine	3		3
Histology and Embryology	2	1	3
Medical Biology	1		1
Microbiology	5		5
Neurology	16		16
Neurosurgery	3		3
Pathology	11	2	13
Pharmacology	10		10
Physical Medicine and Rehabilitation	2		2
Physiology	11		11
Public Health	3		3
Subtotal	103	16	119
PBL Module		8	8
ICS-3: Basic Medical Practices, Clinical Skills Lab.		19	19
Communication in Turkish-III (Foreign Students)	24	8	32
Elective Course	10		10
TOTAL	137	51	188

THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
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Week-1 (January 08-12, 2018)		
Monday	08 January	
08:40-09:30	Communication in Turkish III	Inst. Emine Özerinç
09:40-10:30	Communication in Turkish III	Inst. Emine Özerinç
10:40-11:30	Communication in Turkish III	Inst. Emine Özerinç
11:40-12:30	Communication in Turkish III	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	09 January	
08:40-09:30		
09:40-10:30		
10:40-11:30	Introduction to the course	Dr. İlke Akçay
11:40-12:30	Meninges & dural sinuses of the brain	Dr. Aymelek Yalın
13:40-14:30	Meninges & dural sinuses of the brain	Dr. Aymelek Yalın
14:40-15:30	General structure of the spinal cord	Dr. Aymelek Yalın
15:40-16:30	General structure of the spinal cord	Dr. Aymelek Yalın
16:40-17:30		
Wednesday	10 January	
08:40-09:30	Anatomy LAB: Spinal cord	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
09:40-10:30	Anatomy LAB: Spinal cord	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
10:40-11:30	Cerebral cortex: functional areas & general topography	Dr. Ümit Şehirli
11:40-12:30	Cerebral cortex: functional areas & general topography	Dr. Ümit Şehirli
13:40-14:30	Limbic system and pineal gland	Dr. Ümit Şehirli
14:40-15:30	Anatomy LAB: Cerebral cortex: functional areas & general topography	Dr. Ümit Şehirli, Dr. Berfu Çerçi Öngün
15:40-16:30	Anatomy LAB: Cerebral cortex: functional areas & general topography	Dr. Ümit Şehirli, Dr. Berfu Çerçi Öngün
16:40-17:30	STUDY TIME	
Thursday	11 January	
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	Descending pathways	Dr. Aymelek Yalın
14:40-15:30	Ascending pathways	Dr. Aymelek Yalın
15:40-16:30	Ascending pathways	Dr. Aymelek Yalın
16:40-17:30	STUDY TIME	

Friday	12 January	
08:40-09:30	Y1C2 THEORETICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Anatomy LAB: Meninges & dural sinuses of the brain	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
14:40-15:30	Anatomy LAB: Meninges & dural sinuses of the brain	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
15:40-16:30	Cerebellum	Dr. Aymelek Yalın
16:40-17:30	STUDY TIME	
Week-2 (January 15-19, 2018)		
Monday	15 January	
08:40-09:30	Communication in Turkish III	Inst. Emine Özerinç
09:40-10:30	Communication in Turkish III	Inst. Emine Özerinç
10:40-11:30	Communication in Turkish III	Inst. Emine Özerinç
11:40-12:30	Communication in Turkish III	Inst. Emine Özerinç
13:40-14:30	Elective Course – III MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
14:40-15:30	Elective Course – III MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Tuesday	16 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	Communication in Turkish (CiT) III – Interactive Session	Inst. Emine Özerinç
16:40-17:30	Communication in Turkish (CiT) III – Interactive Session	Inst. Emine Özerinç
Wednesday	17 January	
08:40-09:30	Anatomy LAB: Brain stem	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
09:40-10:30	Anatomy LAB: Brain stem	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
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	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
14:40-15:30	Anatomy LAB: Cranial nerves	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	18 January	
08:40-09:30	ICS 3- Polyclinics Visit & Communication in Turkish IV	Dr. Umut Altunç
09:40-10:30	ICS 3- Polyclinics Visit & Communication in Turkish IV	Dr. Bülent Sezgin
10:40-11:30	ICS 3- Polyclinics Visit & Communication in Turkish IV	Dr. Halil Eren Sakallı
11:40-12:30	ICS 3- Polyclinics Visit & Communication in Turkish IV	Dr. Hasan Toper Inst. Emine Özerinç
13:40-14:30	ICS 3- Polyclinics Visit & Communication in Turkish IV	Dr. Umut Altunç
14:40-15:30	ICS 3- Polyclinics Visit & Communication in Turkish IV	Dr. Bülent Sezgin
15:40-16:30	ICS 3- Polyclinics Visit & Communication in Turkish IV	Dr. Halil Eren Sakallı
16:40-17:30	ICS 3- Polyclinics Visit & Communication in Turkish IV	Dr. Hasan Toper Inst. Emine Özerinç
Friday	19 January	
08:40-09:30	STUDY TIME	
09:40-10:30	Principles of CT and MRI	Dr. Ayşe Garip İnan
10:40-11:30	Biophysics LAB: Principles of EEG-Group A	Dr. Pınar Mega Tiber, Dr. Ayşe Garip İnan
11:40-12:30	Biophysics LAB: Principles of EEG-Group B	Dr. Pınar Mega Tiber, Dr. Ayşe Garip İnan
13:40-14:30	Biophysics LAB: Principles of EEG-Group A	Dr. Pınar Mega Tiber, Dr. Ayşe Garip İnan
14:40-15:30	Biophysics LAB: Principles of EEG-Group B	Dr. Pınar Mega Tiber, Dr. Ayşe Garip İnan
15:40-16:30	Communication in Turkish (CiT) III – Interactive Session	Inst. Emine Özerinç
16:40-17:30	Communication in Turkish (CiT) III – Interactive Session	Inst. Emine Özerinç
Week-3 (January 22-26, 2018)		
Monday	22 January	
08:40-09:30	Communication in Turkish III	Inst. Emine Özerinç
09:40-10:30	Communication in Turkish III	Inst. Emine Özerinç
10:40-11:30	Communication in Turkish III	Inst. Emine Özerinç
11:40-12:30	Communication in Turkish III	Inst. Emine Özerinç
13:40-14:30	Elective Course – III MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
14:40-15:30	Elective Course – III MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	

Tuesday	23 January	
08:40-09:30	Adult patient with paresthesia, arthralgia and lethargia	Dr. Mehmet Akman
09:40-10:30	Epidemiology of neurological diseases	Dr. Emel Lüleci
10:40-11:30	Epidemiology and control of dementias	Dr. Emel Lüleci
11:40-12:30	Epidemiology and prevention of occupational neurological disorders	Dr. Emel Lüleci
13:40-14:30	Review: development of the Nervous System	Dr. Dilek Akakin
14:40-15:30		
15:40-16:30	PBL Module 1	Dr. Berfu Çerçi Öngün Dr. Bülent Sezgin Dr. Halil Eren Sakallı
16:40-17:30	PBL Module 1	Dr. Hasan Toper Dr. Umut Altunç
Wednesday	24 January	
08:40-09:30	Hypothalamus and pituitary gland	Dr. Ümit Şehirli,
09:40-10:30	Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal	Dr. Ümit Şehirli, Dr. Berfu Çerçi Öngün
10:40-11:30	Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal	Dr. Ümit Şehirli, Dr. Berfu Çerçi Öngün
11:40-12:30	White matter of cerebrum	Dr. Ümit Şehirli
13:40-14:30	Visual pathway	Dr. Ümit Şehirli
14:40-15:30	Thalamus	Dr. Ümit Şehirli
15:40-16:30	Cerebrum, cerebellum and spinal cord	Dr. Masoud Afshani
16:40-17:30	Histology LAB: Cerebrum, cerebellum and spinal cord	Dr. Dilek Akakin Dr. Masoud Afshani
Thursday	25 January	
08:40-09:30	Pathology of demyelinating diseases	Dr. Süheyla Bozkurt
09:40-10:30	Nervous system tumors	Dr. Süheyla Bozkurt
10:40-11:30	Nervous system tumors	Dr. Süheyla Bozkurt
11:40-12:30	Pathology of cerebrovascular disease	Dr. Süheyla Bozkurt
13:40-14:30	Pathology of cerebrovascular disease	Dr. Süheyla Bozkurt
14:40-15:30	Pathology LAB: Pathology of central nervous system	Dr. Süheyla Bozkurt Dr. Hasan Toper
15:40-16:30	Pathology LAB: Pathology of central nervous system	Dr. Süheyla Bozkurt Dr. Hasan Toper
16:40-17:30	STUDY TIME	
Friday	26 January	
08:40-09:30	Basic histopathologic neuronal reaction to injury	Dr. Süheyla Bozkurt
09:40-10:30	Neurodegenerative diseases & dementia	Dr. Süheyla Bozkurt
10:40-11:30	Vessels of the central nervous system	Dr. Ümit Şehirli,
11:40-12:30	Vessels of the central nervous system	Dr. Ümit Şehirli,
13:40-14:30	Anatomy LAB: Vessels of the central nervous system	Dr. Ümit Şehirli, Dr. Berfu Çerçi Öngün

14:40-15:30	Anatomy LAB: Vessels of the central nervous system	Dr. Ümit Şehirli, Dr. Berfu Çerçi Öngün
15:40-16:30	Basal ganglia subthalamus	Dr. Ümit Şehirli,
16:40-17:30	Basal ganglia subthalamus	Dr. Ümit Şehirli,
29 JANUARY – 09 FEBRUARY SEMESTER HOLIDAY		
Week-4 (February 12-16, 2018)		
Monday	12 February	
08:40-09:30	Communication in Turkish III	Inst. Emine Özerinç
09:40-10:30	Communication in Turkish III	Inst. Emine Özerinç
10:40-11:30	Communication in Turkish III	Inst. Emine Özerinç
11:40-12:30	Communication in Turkish III	Inst. Emine Özerinç
13:40-14:30	Elective Course – III MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
14:40-15:30	Elective Course – III MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Tuesday	13 February	
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	PBL Module 2	Dr. Berfu Çerçi Öngün Dr. Bülent Sezgin Dr. Halil Eren Sakallı
16:40-17:30	PBL Module 2	Dr. Hasan Toper Dr. Umut Altunç
Wednesday	14 February	
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, Dr. Berfu Çerçi Öngün
10:40-11:30	ICS-3: CSL-Neurologic Examination	
11:40-12:30	ICS-3: CSL-Neurologic Examination	
13:40-14:30	ICS-3: CSL-Neurologic Examination	Dr. Pınar Kahraman Koytak,
14:40-15:30	ICS-3: CSL-Neurologic Examination	

15:40-16:30	ICS-3: CSL-Neurologic Examination	Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
16:40-17:30	STUDY TIME	
Thursday	15 February	
08:40-09:30	Autonomic nervous system	Dr. Ural Verimli
09:40-10:30	Autonomic nervous system	Dr. Ural Verimli
10:40-11:30	Cerebellum	Dr. Ural Verimli
11:40-12:30	Organization of the cortex; motor cortex and corticospinal system	Dr. İnci Alican
13:40-14:30	Organization of the cortex; motor cortex and corticospinal system	Dr. İnci Alican
14:40-15:30	Cerebellum	Dr. İnci Alican
15:40-16:30	Cerebellum	Dr. İnci Alican
16:40-17:30	The basal nuclei	Dr. İnci Alican
Friday	16 February	
08:40-09:30	Anatomy LAB: Basal ganglia, thalamus, subthalamus	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
09:40-10:30	Anatomy LAB: Basal ganglia, thalamus, subthalamus	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
10:40-11:30	Anatomy LAB: Brain ventricles and subarachnoid spaces	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
11:40-12:30	Anatomy LAB: Brain ventricles and subarachnoid spaces	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	Bacterial and aseptic meningitis	Dr. Burak Aksu
Week-5 (February 19-23, 2018)		
Monday	19 February	
08:40-09:30	Communication in Turkish III	Inst. Emine Özerinç
09:40-10:30	Communication in Turkish III	Inst. Emine Özerinç
10:40-11:30	Communication in Turkish III	Inst. Emine Özerinç
11:40-12:30	Communication in Turkish III	Inst. Emine Özerinç
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Tuesday	20 February	
08:40-09:30	Sleep and sleep disorders	Dr. Kadriye Agan Yıldırım
09:40-10:30	Epilepsy	Dr. Kadriye Agan Yıldırım
10:40-11:30	Epilepsy	Dr. Kadriye Agan Yıldırım
11:40-12:30	Genetic basis of neurological diseases	Dr. Pınar Ata

13:40-14:30	ICS-3: Combining Medical Practice (CMPS)-1	Dr. Pemra C. Ünalın, Dr. Bülent Sezgin, Dr. Halil Eren Sakallı Dr. Hasan Toper
14:40-15:30	ICS-3: Combining Medical Practice (CMPS)-1	
15:40-16:30	ICS-3: Combining Medical Practice (CMPS)-1	
16:40-17:30	ICS-3: Combining Medical Practice (CMPS)-1	
Wednesday	21 February	
08:40-09:30	STUDY TIME	
09:40-10:30	PBL Module 3	Dr. Berfu Çerçi Öngün Dr. Bülent Sezgin Dr. Halil Eren Sakallı Dr. Hasan Toper Dr. Umut Altunç
10:40-11:30	PBL Module 3	
11:40-12:30	Introduction to pediatric neurology: From symptoms to signs	Dr. Olcay Ünver
13:40-14:30	Infectious diseases of the nervous system	Dr. Olcay Ünver
14:40-15:30	Headache in Primary Care	Dr. Pemra C. Ünalın
15:40-16:30	Headache in Primary Care	Dr. Pemra C. Ünalın
16:40-17:30	Pharmacotherapy of Parkinson's disease	Dr. Rezzan Gülhan
Thursday	22 February	
08:40-09:30	Introduction to CNS pharmacology	Dr. Filiz Onat
09:40-10:30	Pharmacotherapy in epilepsy	Dr. Filiz Onat
10:40-11:30	Clinical pharmacology of opioids	Dr. Filiz Onat
11:40-12:30	Basic principles of action of drugs affecting neurotransmission	Dr. Filiz Onat
13:40-14:30	Introduction to pathology of muscle diseases and peripheral nerve	Dr. Hasan Toper
14:40-15:30	Nervous system malformations	Dr. Hasan Toper
15:40-16:30	Pathology of central nervous system infections	Dr. Hasan Toper
16:40-17:30	Pathology of central nervous system infections	Dr. Hasan Toper
Friday	23 February	
08:40-09:30	Y2C3 THEORETICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Anatomy LAB: Cerebellum	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
14:40-15:30	Anatomy LAB: Cerebellum	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
15:40-16:30	Anatomy LAB: Autonomic Nervous System	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
16:40-17:30	Anatomy LAB: Autonomic Nervous System	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
Week-6 (February 26 - March 02, 2018)		
Monday	26 February	
08:40-09:30	Communication in Turkish III	Inst. Emine Özerinç

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09:40-10:30	Communication in Turkish III	Inst. Emine Özerinç
10:40-11:30	Communication in Turkish III	Inst. Emine Özerinç
11:40-12:30	Communication in Turkish III	Inst. Emine Özerinç
13:40-14:30	Elective Course – III MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
14:40-15:30	Elective Course – III MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp
15:40-16:30		
16:40-17:30		
Tuesday	27 February	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Spinal reflexes	Dr. Özgür Kasımay Çakır
14:40-15:30	Spinal reflexes	Dr. Özgür Kasımay Çakır
15:40-16:30	PBL Module 4	Dr. Berfu Çerçi Öngün Dr. Bülent Sezgin Dr. Halil Eren Sakallı
16:40-17:30	PBL Module 4	Dr. Hasan Topper Dr. Umut Altunç
Wednesday	28 February	
08:40-09:30	Peripheral nerve disorders	Dr. Barış İşak
09:40-10:30	Peripheral nerve disorders	Dr. Barış İşak
10:40-11:30	Motor neuron disorders	Dr. Barış İşak
11:40-12:30	Anesthetic premedication	Dr. Atila Karaalp
13:40-14:30	Skeletal muscle relaxants	Dr. Atila Karaalp
14:40-15:30	Headache in the emergency room	Dr. Tülin Tanrıdağ
15:40-16:30	Neurological emergencies	Dr. Tülin Tanrıdağ
16:40-17:30	Myopathies and myasthenia gravis	Dr. Tülin Tanrıdağ
Thursday	01 March	
08:40-09:30	Dementia, Alzheimer's disease and related dementias	Dr. Tülin Tanrıdağ
09:40-10:30	Slow virus infections and prion diseases	Dr. Ufuk Hasdemir
10:40-11:30	Rabies	Dr. Ufuk Hasdemir
11:40-12:30	Pharmacotherapy of cognitive disorders	Dr. Zafer Gören
13:40-14:30	Tetanus	Dr. Ufuk Hasdemir
14:40-15:30	Poliomyelitis	Dr. Ufuk Hasdemir

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15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	02 March	
08:40-09:30	Local and general anesthetics	Dr. Halil Eren Sakallı
09:40-10:30	Management of pain	Dr. Pelin Çorman Dinçer
10:40-11:30	Rehabilitation of neurological disorders	Dr. Önder Kayhan
11:40-12:30	Rehabilitation of neurological disorders	Dr. Önder Kayhan
13:40-14:30	Head and spinal cord trauma	Dr. Ferhat Harman
14:40-15:30	Spinal cord compression syndrome and disc herniation	Dr. Ferhat Harman
15:40-16:30	Increased intracranial pressure	Dr. Ferhat Harman
16:40-17:30	Local and general anesthetics	Dr. Halil Eren Sakallı
Week-7 (March 05-09, 2018)		
Monday	05 March	
08:40-09:30	PRACTICAL EXAM	
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		
Tuesday	06 March	
08:40-09:30	PRACTICAL EXAM	
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	07 March	
08:40-09:30		
09:40-10:30		
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	

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15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	08 March	
09:00-09:30	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	09 March	
08:40-09:30		
09:40-10:30	THEORETICAL EXAM (starts at 9:30)	
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		