



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



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

**Year 3 Coordinators**

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

<b>Module Coordinator</b> Assoc. Prof., Özlem SARIKAYA & Assist. Prof., H. Eren SAKALLI	<b>Introduction to Clinician Skills (ICS) Coordinators</b> Assoc. Prof., Pemra ÜNALAN & Assist. Prof., Bülent SEZGIN
<b>Coordinator of Clinical Skill Lab.</b> Assoc. Prof., Pemra ÜNALAN & Inst., Berfu Çerçi ÖNGÜN	<b>Coordinator of ICS Res. Lab.</b> Prof., Sibel SAKARYA & Assist. Prof., Mevhibe HOCAOĞLU
<b>Coordinator of Multidiciplinary Students' Lab.</b> Assoc. Prof., Betül KARADEMİR & Assist. Prof., Mümtaz GÜRAN	<b>Coordinator of Assessment Unite</b> Asisst. Prof., Cevdet NACAR & Assist. Prof., Mümtaz GÜRAN & Assist. Prof., Mevhibe HOCAOĞLU & Assist. Prof., H. Eren SAKALLI

**Vice-Chief Coordinators**

<b>Assessment</b> Asisst. Prof., Cevdet NACAR & Assist. Prof., Mümtaz GÜRAN	<b>Student Affairs</b> Asisst. Prof., Can ERZİK & Assist. Prof., İlke AKÇAY
<b>Chief Coordinator</b> Assoc. Prof., Hasan YANANLI & Assist. Prof., Mümtaz GÜRAN	<b>Coordinator of Medical Education Program Evaluation and Development Commission</b> Prof., Berrak Ç. YEĞEN

**Educational Consultant**

Assoc. Prof., Mehmet Ali GÜLPINAR

<b>Dean (EMU)</b> Prof., Nahide GÖKÇORA	<b>Dean (MU)</b> Prof., Hakan GÜNDÜZ
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## 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

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

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

### 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
<b>Subtotal</b>	<b>103</b>	<b>16</b>	<b>119</b>
<b>PBL Module</b>		8	8
<b>ICS-3: Basic Medical Practices, Clinical Skills Lab.</b>		19	19
Communication in Turkish-III (Foreign Students)	24	8	32
Elective Course	10		10
<b>TOTAL</b>	<b>137</b>	<b>51</b>	<b>188</b>

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

<b>Friday</b>	<b>12 January</b>	
<b>08:40-09:30</b>	<b>Y1C2 THEORETICAL EXAM</b>	
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>	<b>Anatomy LAB:</b> Meninges & dural sinuses of the brain	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
<b>14:40-15:30</b>	<b>Anatomy LAB:</b> Meninges & dural sinuses of the brain	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
<b>15:40-16:30</b>	Cerebellum	Dr. Aymelek Yalın
<b>16:40-17:30</b>	STUDY TIME	
<b>Week-2 (January 15-19, 2018)</b>		
<b>Monday</b>	<b>15 January</b>	
<b>08:40-09:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>09:40-10:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>10:40-11:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>11:40-12:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>13:40-14:30</b>	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
<b>14:40-15:30</b>	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
<b>15:40-16:30</b>	STUDY TIME	
<b>16:40-17:30</b>	STUDY TIME	
<b>Tuesday</b>	<b>16 January</b>	
<b>08:40-09:30</b>	STUDY TIME	
<b>09:40-10:30</b>	Brain stem	Dr. Aymelek Yalın
<b>10:40-11:30</b>	Brain stem	Dr. Aymelek Yalın
<b>11:40-12:30</b>	Brain stem	Dr. Aymelek Yalın
<b>13:40-14:30</b>	Cranial nerves	Dr. Aymelek Yalın
<b>14:40-15:30</b>	Cranial nerves	Dr. Aymelek Yalın
<b>15:40-16:30</b>	Communication in Turkish (CiT) III – Interactive Session	Inst. Emine Özerinç
<b>16:40-17:30</b>	Communication in Turkish (CiT) III – Interactive Session	Inst. Emine Özerinç
<b>Wednesday</b>	<b>17 January</b>	
<b>08:40-09:30</b>	<b>Anatomy LAB:</b> Brain stem	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
<b>09:40-10:30</b>	<b>Anatomy LAB:</b> Brain stem	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
<b>10:40-11:30</b>	Cranial nerves	Dr. Aymelek Yalın
<b>11:40-12:30</b>	Cranial nerves	Dr. Aymelek Yalın

13:40-14:30	<b>Anatomy LAB:</b> Cranial nerves	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
14:40-15:30	<b>Anatomy LAB:</b> Cranial nerves	Dr. Aymelek Yalın, Dr. Berfu Çerçi Öngün
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
<b>Thursday</b>	<b>18 January</b>	
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
<b>Friday</b>	<b>19 January</b>	
08:40-09:30	STUDY TIME	
09:40-10:30	Principles of CT and MRI	Dr. Ayşe Garip İnan
10:40-11:30	<b>Biophysics LAB:</b> Principles of EEG-Group A	Dr. Pınar Mega Tiber, Dr. Ayşe Garip İnan
11:40-12:30	<b>Biophysics LAB:</b> Principles of EEG-Group B	Dr. Pınar Mega Tiber, Dr. Ayşe Garip İnan
13:40-14:30	<b>Biophysics LAB:</b> Principles of EEG-Group A	Dr. Pınar Mega Tiber, Dr. Ayşe Garip İnan
14:40-15:30	<b>Biophysics LAB:</b> 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
<b>Week-3 (January 22-26, 2018)</b>		
<b>Monday</b>	<b>22 January</b>	
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	



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

14:40-15:30	<b>Anatomy LAB:</b> 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,
<b>29 JANUARY – 09 FEBRUARY SEMESTER HOLIDAY</b>		
<b>Week-4 (February 12-16, 2018)</b>		
<b>Monday</b>	<b>12 February</b>	
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	
<b>Tuesday</b>	<b>13 February</b>	
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	<b>PBL Module 2</b>	Dr. Berfu Çerçi Öngün Dr. Bülent Sezgin Dr. Halil Eren Sakallı
16:40-17:30	<b>PBL Module 2</b>	Dr. Hasan Toper Dr. Umut Altunç
<b>Wednesday</b>	<b>14 February</b>	
08:40-09:30	<b>ICS-3:</b> CSL-Neurologic Examination	Dr. Pınar Kahraman Koytak,
09:40-10:30	<b>ICS-3:</b> CSL-Neurologic Examination	Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
10:40-11:30	<b>ICS-3:</b> CSL-Neurologic Examination	
11:40-12:30	<b>ICS-3:</b> CSL-Neurologic Examination	
13:40-14:30	<b>ICS-3:</b> CSL-Neurologic Examination	Dr. Pınar Kahraman Koytak,
14:40-15:30	<b>ICS-3:</b> CSL-Neurologic Examination	

<b>15:40-16:30</b>	<b>ICS-3: CSL-Neurologic Examination</b>	Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
<b>16:40-17:30</b>	STUDY TIME	
<b>Thursday</b>	<b>15 February</b>	
<b>08:40-09:30</b>	Autonomic nervous system	Dr. Ural Verimli
<b>09:40-10:30</b>	Autonomic nervous system	Dr. Ural Verimli
<b>10:40-11:30</b>	Cerebellum	Dr. Ural Verimli
<b>11:40-12:30</b>	Organization of the cortex; motor cortex and corticospinal system	Dr. İnci Alican
<b>13:40-14:30</b>	Organization of the cortex; motor cortex and corticospinal system	Dr. İnci Alican
<b>14:40-15:30</b>	Cerebellum	Dr. İnci Alican
<b>15:40-16:30</b>	Cerebellum	Dr. İnci Alican
<b>16:40-17:30</b>	The basal nuclei	Dr. İnci Alican
<b>Friday</b>	<b>16 February</b>	
<b>08:40-09:30</b>	<b>Anatomy LAB: Basal ganglia, thalamus, subthalamus</b>	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
<b>09:40-10:30</b>	<b>Anatomy LAB: Basal ganglia, thalamus, subthalamus</b>	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
<b>10:40-11:30</b>	<b>Anatomy LAB: Brain ventricles and subarachnoid spaces</b>	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
<b>11:40-12:30</b>	<b>Anatomy LAB: Brain ventricles and subarachnoid spaces</b>	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
<b>13:40-14:30</b>	Vestibular system and auditory pathway	Dr. Ural Verimli
<b>14:40-15:30</b>	Vestibular system and auditory pathway	Dr. Ural Verimli
<b>15:40-16:30</b>	Cerebellum	Dr. Ural Verimli
<b>16:40-17:30</b>	Bacterial and aseptic meningitis	Dr. Burak Aksu
<b>Week-5 (February 19-23, 2018)</b>		
<b>Monday</b>	<b>19 February</b>	
<b>08:40-09:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>09:40-10:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>10:40-11:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>11:40-12:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>13:40-14:30</b>		
<b>14:40-15:30</b>		
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Tuesday</b>	<b>20 February</b>	
<b>08:40-09:30</b>	Sleep and sleep disorders	Dr. Kadriye Agan Yıldırım
<b>09:40-10:30</b>	Epilepsy	Dr. Kadriye Agan Yıldırım
<b>10:40-11:30</b>	Epilepsy	Dr. Kadriye Agan Yıldırım
<b>11:40-12:30</b>	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	
<b>Wednesday</b>	<b>21 February</b>	
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
<b>Thursday</b>	<b>22 February</b>	
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
<b>Friday</b>	<b>23 February</b>	
08:40-09:30	<b>Y2C3 THEORETICAL EXAM</b>	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	<b>Anatomy LAB: Cerebellum</b>	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
14:40-15:30	<b>Anatomy LAB: Cerebellum</b>	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
15:40-16:30	<b>Anatomy LAB: Autonomic Nervous System</b>	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
16:40-17:30	<b>Anatomy LAB: Autonomic Nervous System</b>	Dr. Ural Verimli, Dr. Berfu Çerçi Öngün
<b>Week-6 (February 26 - March 02, 2018)</b>		
<b>Monday</b>	<b>26 February</b>	
08:40-09:30	Communication in Turkish III	Inst. Emine Özerinç

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<b>09:40-10:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>10:40-11:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>11:40-12:30</b>	Communication in Turkish III	Inst. Emine Özerinç
<b>13:40-14:30</b>	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
<b>14:40-15:30</b>	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
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Tuesday</b>	<b>27 February</b>	
<b>08:40-09:30</b>		
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>	Spinal reflexes	Dr. Özgür Kasımay Çakır
<b>14:40-15:30</b>	Spinal reflexes	Dr. Özgür Kasımay Çakır
<b>15:40-16:30</b>	<b>PBL Module 4</b>	Dr. Berfu Çerçi Öngün Dr. Bülent Sezgin Dr. Halil Eren Sakallı
<b>16:40-17:30</b>	<b>PBL Module 4</b>	Dr. Hasan Topper Dr. Umut Altunç
<b>Wednesday</b>	<b>28 February</b>	
<b>08:40-09:30</b>	Peripheral nerve disorders	Dr. Barış İşak
<b>09:40-10:30</b>	Peripheral nerve disorders	Dr. Barış İşak
<b>10:40-11:30</b>	Motor neuron disorders	Dr. Barış İşak
<b>11:40-12:30</b>	Anesthetic premedication	Dr. Atila Karaalp
<b>13:40-14:30</b>	Skeletal muscle relaxants	Dr. Atila Karaalp
<b>14:40-15:30</b>	Headache in the emergency room	Dr. Tülin Tanrıdağ
<b>15:40-16:30</b>	Neurological emergencies	Dr. Tülin Tanrıdağ
<b>16:40-17:30</b>	Myopathies and myasthenia gravis	Dr. Tülin Tanrıdağ
<b>Thursday</b>	<b>01 March</b>	
<b>08:40-09:30</b>	Dementia, Alzheimer's disease and related dementias	Dr. Tülin Tanrıdağ
<b>09:40-10:30</b>	Slow virus infections and prion diseases	Dr. Ufuk Hasdemir
<b>10:40-11:30</b>	Rabies	Dr. Ufuk Hasdemir
<b>11:40-12:30</b>	Pharmacotherapy of cognitive disorders	Dr. Zafer Gören
<b>13:40-14:30</b>	Tetanus	Dr. Ufuk Hasdemir
<b>14:40-15:30</b>	Poliomyelitis	Dr. Ufuk Hasdemir

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

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