



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



NERVOUS SYSTEM AND RELATED DISORDERS

YEAR 3 COURSE 3

January 04th, 2021 – March 11th, 2021

Year 3 Coordinators

Prof., Arzu Akşit İLKİ & Assoc. Prof., Pınar Mega TİBER & Assoc. Prof., Amber EKER

PBL Module Coordinator

Prof., Özlem SARIKAYA
Assist. Prof., Bülent SEZGİN

Coordinator of Multidisciplinary Students' Lab.

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

Coordinator of Clinical Skill Lab.

Prof., Pemra ÜNALAN
Assoc. Prof., Nilüfer GÜZOĞLU

Coordinator of ICS Res. Lab.

Prof., Pemra ÜNALAN
Assist. Prof., İlke AKÇAY

Vice-Chief Coordinators

Assessment

Asist. Prof., Cevdet NACAR
Assist. Prof., Halil Eren SAKALLI

Student Affairs

Asist. 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

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 counselling

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
- Radiology

LECTURERS / TUTORS

Ahmet Akıcı, Prof., Medical Pharmacology
Ahmet Topuzoğlu, Prof., Public Health
Alper Yıldırım, Assoc. Prof., Physiology
Amber Eker Bakkaloğlu, Assoc. Prof., Neurology
Arzu Uzuner, Prof., Family Medicine
Atila Karaalp, Prof., Pharmacology
Aymelek Yalın, Prof., Anatomy
Ayşe Garip İnhan, Assoc. Prof., Biophysics
Ayşegül Karahasan, Prof., Medical Microbiology
Barış İşak, Prof., Neurology
Beliz Bilgili, Assist. Prof., Anesthesiology and Reanimation
Berfu Çerçi Öngün, Inst., Anatomy
Buket Ertürk Şengel, Asst. Prof., Infectious Diseases
Bülent Sezgin, Assist. Prof., Internal Medicine
Cemal Gürkan, Inst., Forensic Sciences
Deren Çeker, Inst., Medical Anthropology
Eda Kenepekli, Assoc. Prof., Pediatrics
Emine Özerinç, Inst., Turkish Language
Emel Lüleci, Prof., Public Health
Emine Neşe Tuncer Elmacı, Assoc. Prof., Neurology
Evrım Karadağ Saygı, Prof., Physical Medicine and Rehabilitation
Fatih Bayraklı, Prof., Neurosurgery
Ferhat Harman, Assoc. Prof., Neurosurgery
Halil Eren Sakallı, Assist. Prof., Pharmacology
İpek Gürsoy Midi, Prof., Neurology
Kadriye Ağan Yıldırım, Prof., Neurology
Masoud Afshani, Assist. Prof., Histology and Embryology
Mehmet Akman, Prof., Family Medicine

Nadiye Pınar Ay, Prof., Public Health
Nevin Yılmaz, Prof., Gastroenterology
Nilüfer Güzoğlu, Assoc. Prof., Neonatology
Nurtane Karagil, Inst., Arts and Crafts
Nurver Ülger, Prof., Microbiology
Olca Ünver, Assist. Prof., Pediatrics
Onur Buğdaycı, Assist. Prof., Radiology
Özgür Kasımay Çakır, Assoc. Prof., Physiology
Özlem Kirazlı, Assist. Prof. Anatomy
Özlem Sarıkaya, Prof., Medical Education
Pemra C. Ünal, Prof., Family Medicine
Pınar Ata, Prof., Medical Genetics
Pınar Kahraman Koytak, Assoc. Prof., Neurology
Pınar Mega Tiber, Assoc. Prof., Biophysics
Rengin Asiye Ahıskalı, Prof., Medical Pathology
Serap Şirvancı, Prof., Histology and Embryology
Süheyla Bozkurt, Prof., Medical Pathology
Tülin Tanrıdağ, Prof., Neurology
Ufuk Hasdemir, Prof., Microbiology
Ural Verimli, Assist. Prof., Anatomy
Ümit S. Şehirli, Prof., Anatomy
Yaşar İnci Alican, Prof., Medical Physiology
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-Sanders, 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 editörü: 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	31	11	42
Anesthesiology	1		1
Biophysics	1	1	2
Family Medicine	3		3
Histology and Embryology	2	1	3
Infectious Diseases	1		1
Medical Genetics	1		1
Microbiology	4		4
Neurology	16		16
Neurosurgery	2		2
Pathology	10	1	11
Pediatrics	2		2
Pharmacology	11		11
Physical Medicine and Rehabilitation	2		2
Physiology	11		11
Public Health	3		3
Radiology	2		2
Subtotal	103	13	116
PBL Module	8		8
ICS-3 Clinical: Basic Medical Practices (BMP), Clinical Skills Lab. (CSL)	10	3	13
ICS-3 Research: Student Research Activity (SRA)	3	10	13
Turkish for Medical Students – IV	28		28
Turkish for Medical Students – IV (Interactive Session)	35		35
Elective Course	10		10
TOTAL	189	34	223

		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
1st WEEK (04 - 08 January, 2021)			
Cyprus Local Time	Turkey Local Time		
Monday		04 January	
08:40-09:30	09:40-10:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
09:40-10:30	10:40-11:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
10:40-11:30	11:40-12:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
11:40-12:30	12:40-13:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
13:40-14:30	14:40-15:30	STUDY TIME	
14:40-15:30	15:40-16:30	STUDY TIME	
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Inst. Deren Çeker*
16:40-17:30	17:40-18:30		
Tuesday		05 January	
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Introduction to the course	Dr. Amber Eker*
10:00-10:50	11:00-11:50	ICS-3 Research: Preparation of a Research Proposal	Dr. İlke Akçay*
12:00-12:50	13:00-13:50	Meninges & dural sinuses of the brain	Dr. Aymelek Yalın*
13:00-13:50	14:00-14:50	Meninges & dural sinuses of the brain	Dr. Aymelek Yalın*
14:00-14:50	15:00-15:50	General structure of the spinal cord	Dr. Aymelek Yalın*
15:00-15:50	16:00-16:50	General structure of the spinal cord	Dr. Aymelek Yalın*
Wednesday		06 January	

Y3C3 Last Updated on 09 March, 2021

08:00-8:50	09:00-09:50	Genetic basis of neurological diseases	Dr. Pınar Ata
09:00-09:50	10:00-10:50	Cerebral cortex: functional areas & general topography	Dr. Ümit Süleyman Şehirli
10:00-10:50	11:00-11:50	Cerebral cortex: functional areas & general topography	Dr. Ümit Süleyman Şehirli
12:00-12:50	13:00-13:50	Anatomy LAB: Meninges & dural sinuses of the brain	Dr. Özlem Kirazlı Dr. Berfu Ç. Öngün*
13:00-13:50	14:00-14:50	Descending pathways	Dr. Aymelek Yalın*
14:00-14:50	15:00-15:50	Ascending pathways	Dr. Aymelek Yalın*
15:00-15:50	16:00-16:50	Ascending pathways	Dr. Aymelek Yalın*
Thursday		07 January	
08:00-8:50	09:00-09:50	ICS3-BMP-Advanced Communication Skills	Dr. Özlem Sarıkaya
09:00-09:50	10:00-10:50	ICS3-BMP-Advanced Communication Skills	Dr. Özlem Sarıkaya
10:00-10:50	11:00-11:50	ICS3-BMP-Advanced Communication Skills	Dr. Özlem Sarıkaya
12:00-12:50	13:00-13:50	ICS3-BMP-Advanced Communication Skills	Dr. Özlem Sarıkaya
13:00-13:50	14:00-14:50	ICS3-BMP-Advanced Communication Skills	Dr. Özlem Sarıkaya
14:00-14:50	15:00-15:50	ICS3-BMP-Advanced Communication Skills	Dr. Özlem Sarıkaya
15:00-15:50	16:00-16:50	ICS3-BMP-Advanced Communication Skills	Dr. Özlem Sarıkaya
16:00-16:50	17:00-17:50	ICS3-BMP-Advanced Communication Skills	Dr. Özlem Sarıkaya
Friday		08 January	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	Brain stem	Dr. Aymelek Yalın*
12:00-12:50	13:00-13:50	Anatomy LAB: Spinal cord	Dr. Özlem Kirazlı Dr. Berfu Ç. Öngün*
13:00-13:50	14:00-14:50	Brain stem	Dr. Aymelek Yalın*
14:00-14:50	15:00-15:50	Brain stem	Dr. Aymelek Yalın*
15:00-15:50	16:00-16:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
16:00-16:50	17:00-17:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*

Y3C3 Last Updated on 09 March, 2021

Sunday		10 January	
10.30-12.30	11.30-13.30	TFMS301-EXAM (on moodle)	
2nd Week (11 – 15 January, 2021)			
Monday		11 January	
08:40-09:30	09:40-10:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
09:40-10:30	10:40-11:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
10:40-11:30	11:40-12:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
11:40-12:30	12:40-13:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
13:40-14:30	14:40-15:30	STUDY TIME	
14:40-15:30	15:40-16:30	STUDY TIME	
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Inst. Deren Çeker*
16:40-17:30	17:40-18:30		
Tuesday		12 January	
08:00-8:50	09:00-09:50	Thalamus	Dr. Ümit Süleyman Şehirli
09:00-09:50	10:00-10:50	White matter of cerebrum	Dr. Ümit Süleyman Şehirli
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-12:50	13:00-13:50	Cerebellum	Dr. Ural Verimli
13:00-13:50	14:00-14:50	Anatomy LAB: Cerebral cortex: functional areas & general topography	Dr. Ümit Süleyman Şehirli Dr. Berfu Ç. Öngün*
14:00-14:50	15:00-15:50	ICS-3 Research: Critics with groups	Dr. İlke Akçay*
15:00-15:50	16:00-16:50	ICS-3 Research: Critics with groups	Dr. İlke Akçay*
16:00-16:50	17:00-17:50	ICS-3 Research: Critics with groups	Dr. İlke Akçay*
Wednesday		13 January	
08:00-8:50	09:00-09:50	STUDY TIME	

Y3C3 Last Updated on 09 March, 2021

09:00-09:50	10:00-10:50	Organization of the cortex; motor cortex and corticospinal system	Dr. Yaşar İnci Alican
10:00-10:50	11:00-11:50	Organization of the cortex; motor cortex and corticospinal system	Dr. Yaşar İnci Alican
12:00-12:50	13:00-13:50	Cranial nerves	Dr. Aymelek Yalın
13:00-13:50	14:00-14:50	Cranial nerves	Dr. Aymelek Yalın
14:00-14:50	15:00-15:50	Limbic system and pineal gland	Dr. Ural Verimli
15:00-15:50	16:00-16:50	Hypothalamus and pituitary gland	Dr. Ural Verimli
16:00-16:50	17:00-17:50	Anatomy LAB: Cerebellum	Dr. Ural Verimli Dr. Berfu Ç. Öngün*
Thursday		14 January	
08:00-8:50	09:00-09:50	Cerebellum	Dr. Yaşar İnci Alican
09:00-09:50	10:00-10:50	Cerebellum	Dr. Yaşar İnci Alican
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	ICS-3 Research: Proposal Presentations	Dr. Pemra Ünalın Dr. İlke Akçay* Dr. Halil Eren Sakallı*
14:00-14:50	15:00-15:50	ICS-3 Research: Proposal Presentations	Dr. Pemra Ünalın Dr. İlke Akçay* Dr. Halil Eren Sakallı*
15:00-15:50	16:00-16:50	ICS-3 Research: Proposal Presentations	Dr. Pemra Ünalın Dr. İlke Akçay* Dr. Halil Eren Sakallı*
16:00-16:50	17:00-17:50	STUDY TIME	
Friday		15 January	
08:00-8:50	09:00-09:50	Basal ganglia subthalamus	Dr. Ümit Süleyman Şehirli
09:00-09:50	10:00-10:50	Basal ganglia subthalamus	Dr. Ümit Süleyman Şehirli
10:00-10:50	11:00-11:50	The basal nuclei	Dr. Yaşar İnci Alican
11:00-11:50	12:00-12:50	STUDY TIME	
12:00-12:50	13:00-13:50	ICS-3 Research: Proposal Presentations	Dr. Pemra Ünalın Dr. İlke Akçay*

Y3C3 Last Updated on 09 March, 2021

			Dr. Halil Eren Sakallı*
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	STUDY TIME	
16:00-16:50	17:00-17:50	STUDY TIME	
Saturday		16 January	
11.00-15.00	12.00-16.00	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
3rd Week (18 – 22 January, 2021)			
Monday		18 January	
08:40-09:30	09:40-10:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
09:40-10:30	10:40-11:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
10:40-11:30	11:40-12:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
11:40-12:30	12:40-13:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
13:40-14:30	14:40-15:30	STUDY TIME	
14:40-15:30	15:40-16:30	STUDY TIME	
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Inst. Deren Çeker*
16:40-17:30	17:40-18:30		
Tuesday		19 January	
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
11:00-11:50	12:00-12:50	Cerebrum, cerebellum and spinal cord	Dr. Masoud Afshani*
12:00-12:50	13:00-13:50	Vessels of the central nervous system	Dr. Ümit Süleyman Şehirli
13:00-13:50	14:00-14:50	Vessels of the central nervous system	Dr. Ümit Süleyman Şehirli

Y3C3 Last Updated on 09 March, 2021

14:00-14:50	15:00-15:50	Basic histopathologic neuronal reaction to injury	Dr. Süheyla Bozkurt
15:00-15:50	16:00-16:50	STUDY TIME	
16:00-16:50	17:00-17:50	Anatomy LAB: Cranial nerves	Dr. Ural Verimli Dr. Berfu Ç. Öngün*
Wednesday		20 January	
08:00-8:50	09:00-09:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
09:00-09:50	10:00-10:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
10:00-10:50	11:00-11:50	Epidemiology of neurological diseases	Dr. Nimet Emel Lüleci
12:00-12:50	13:00-13:50	Epidemiology and control of dementias	Dr. Nadiye Pınar Ay
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	PBL-1	Dr. Amber Eker* Dr. Bülent Sezgin* Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu *
15:00-15:50	16:00-16:50	PBL-1	Dr. Amber Eker* Dr. Bülent Sezgin* Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
16:00-16:50	17:00-17:50	Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal	Dr. Ural Verimli Dr. Berfu Ç. Öngün*
Thursday		21 January	
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	ICS3-BMP: The essentials of the neurologic examination	Dr. Amber Eker*
10:00-10:50	11:00-11:50	ICS3-BMP: The essentials of the neurologic examination	Dr. Amber Eker*
12:00-12:50	13:00-13:50	ICS3-CSL: Audio visualization of the neurologic examination	Dr. Amber Eker*
13:00-13:50	14:00-14:50	ICS3-CSL: Audio visualization of the neurologic examination	Dr. Amber Eker*
14:00-14:50	15:00-15:50	ICS3-CSL: Interactive session for neurologic examination	Dr. Amber Eker*

Y3C3 Last Updated on 09 March, 2021

15:00-15:50	16:00-16:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
16:00-16:50	17:00-17:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
Friday		22 January	
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-12:50	13:00-13:50	PBL-2	Dr. Amber Eker* Dr.Bülent Sezgin* Dr.Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
13:00-13:50	14:00-14:50	PBL-2	Dr. Amber Eker* Dr.Bülent Sezgin* Dr.Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	Signs and symptoms in neurology	Dr. İpek Gürsoy Midi
16:00-16:50	17:00-17:50	Signs and symptoms in neurology	Dr. İpek Gürsoy Midi
Saturday		23 January	
11.00-15.00	12.00-16.00	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
4th Week (25 – 29 January, 2021)			
Monday	25 January		
08:40-09:30	09:40-10:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
09:40-10:30	10:40-11:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
10:40-11:30	11:40-12:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
11:40-12:30	12:40-13:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
13:40-14:30	14:40-15:30	ICS-3 Research: Evaluating feedbacks from proposal presentations	Dr. İlke Akçay*

Y3C3 Last Updated on 09 March, 2021

14:40-15:30	15:40-16:30	ICS-3 Research: Evaluating feedbacks from proposal presentations	Dr. İlke Akçay*
15:40-16:30	16:40-17:30	ICS-3 Research: Evaluating feedbacks from proposal presentations	Dr. İlke Akçay*
16:40-17:30	17:40-18:30	ICS-3 Research: Evaluating feedbacks from proposal presentations	Dr. İlke Akçay*
Tuesday	26 January		
08:00-8:50	09:00-09:50	Epilepsy	Dr. Kadriye Ağan Yıldırım
09:00-09:50	10:00-10:50	Epilepsy	Dr. Kadriye Ağan Yıldırım
10:00-10:50	11:00-11:50	Sleep and sleep disorders	Dr. Kadriye Ağan Yıldırım
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	Extrapyramidal system disorders	Dr. Amber Eker*
15:00-15:50	16:00-16:50	Demyelinating disorders	Dr. Amber Eker*
16:00-16:50	17:00-17:50	STUDY TIME	
Wednesday	27 January		
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Headache in primary care	Dr. Arzu Uzuner
10:00-10:50	11:00-11:50	Headache in primary care	Dr. Gülru Pemra Ünalın
12:00-12:50	13:00-13:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
13:00-13:50	14:00-14:50	PBL-3	Dr. Amber Eker* Dr. Bülent Sezgin* Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
14:00-14:50	15:00-15:50	PBL-3	Dr. Amber Eker* Dr. Bülent Sezgin* Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
15:00-15:50	16:00-16:50	Anatomy LAB: Basal ganglia, thalamus, subthalamus	Dr. Ümit Süleyman Şehirli Dr. Berfu Ç. Öngün*
16:00-16:50	17:00-17:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*

Y3C3 Last Updated on 09 March, 2021

Thursday	28 January		
08:00-8:50	09:00-09:50	Introduction to CNS pharmacology	Dr. Eren Sakallı*
09:00-09:50	10:00-10:50	Introduction to CNS pharmacology	Dr. Eren Sakallı*
10:00-10:50	11:00-11:50	Brain ventricles and subarachnoid spaces	Dr. Ural Verimli
12:00-12:50	13:00-13:50	Neurodegenerative diseases & dementia	Dr. Süheyla Bozkurt
13:00-13:50	14:00-14:50	Pathology of demyelinating diseases	Dr. Süheyla Bozkurt
14:00-14:50	15:00-15:50	Poliomyelitis	Dr. Ayşegül Karahasan
15:00-15:50	16:00-16:50	Cognitive and emotional functions	Dr. Alper Yıldırım
16:00-16:50	17:00-17:50	Cognitive and emotional functions	Dr. Alper Yıldırım
Friday	29 January		
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Vestibular system and auditory pathway	Dr. Ural Verimli
10:00-10:50	11:00-11:50	Vestibular system and auditory pathway	Dr. Ural Verimli
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	PBL-4	Dr. Amber Eker* Dr. Bülent Sezgin* Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
14:00-14:50	15:00-15:50	PBL-4	Dr. Amber Eker* Dr. Bülent Sezgin* Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
15:00-15:50	16:00-16:50	Cranial nerves	Dr. Aymelek Yalın*
16:00-16:50	17:00-17:50	Cranial nerves	Dr. Aymelek Yalın*
Saturday	30 January		
13:00-15:30	14:00-16:30	TFMS301-EXAM (on moodle)	Inst. Emine Özerinç*
		SEMESTER HOLIDAY	
5th Week (15 – 19 February, 2021)			
Monday	15 February		

Y3C3 Last Updated on 09 March, 2021

08:40-09:30	09:40-10:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
09:40-10:30	10:40-11:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
10:40-11:30	11:40-12:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
11:40-12:30	12:40-13:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
13:40-14:30	14:40-15:30	Review: Development of the nervous system	Dr. Masoud Afshani*
14:40-15:30	15:40-16:30	STUDY TIME	
15:40-16:30	16:40-17:30	STUDY TIME	
16:40-17:30	17:40-18:30	STUDY TIME	
Tuesday	16 February		
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Local and general anesthetics	Dr. Ahmet Akıcı
10:00-10:50	11:00-11:50	Local and general anesthetics	Dr. Ahmet Akıcı
12:00-12:50	13:00-13:50	Anatomy LAB: Brain ventricles and subarachnoid spaces	Dr. Ural Verimli Dr. Berfu Ç. Öngün*
13:00-13:50	14:00-14:50	Nervous system malformations	Dr. Rengin Asiye Ahıskalı
14:00-14:50	15:00-15:50	ICS-3 Research: Critics with groups	Dr. İlke Akçay*
15:00-15:50	16:00-16:50	ICS-3 Research: Critics with groups	Dr. İlke Akçay*
16:00-16:50	17:00-17:50	ICS-3 Research: Critics with groups	Dr. İlke Akçay*
Wednesday	17 February		
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Brain stem review	Dr. Alper Yıldırım
10:00-10:50	11:00-11:50	Epidemiology and prevention of occupational neurological disorders	Dr. Ahmet Topuzoğlu
12:00-12:50	13:00-13:50	Cerebrovascular disease	Dr. İpek Gürsoy Midi
13:00-13:50	14:00-14:50	Cerebrovascular disease	Dr. İpek Gürsoy Midi
14:00-14:50	15:00-15:50	Tetanus	Dr. Nurver Ülger

Y3C3 Last Updated on 09 March, 2021

15:00-15:50	16:00-16:50	Anatomy LAB: Vessels of the central nervous system	Dr. Ümit Süleyman Şehirli Dr. Berfu Ç. Öngün*
16:00-16:50	17:00-17:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
17:00-17:50	18:00-18:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
Thursday	18 February		
08:00-8:50	09:00-09:50	Biophysics LAB: Principles of EEG	Dr. Pınar Mega Tiber Dr. Ayşe Garip İnhan
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	Pharmacotherapy of cognitive disorders	Dr. Zafer Gören
12:00-12:50	13:00-13:50	Pathology of central nervous system infections	Dr. Rengin Asiye Ahıskalı
13:00-13:50	14:00-14:50	Pathology of central nervous system infections	Dr. Rengin Asiye Ahıskalı
14:00-14:50	15:00-15:50	Histology LAB: Cerebrum, cerebellum and spinal cord	Dr. Serap Şirvancı Dr. Masoud Afshani*
15:00-15:50	16:00-16:50	STUDY TIME	
16:00-16:50	17:00-17:50	Anatomy LAB: Brain stem	Dr. Özlem Kirazlı Dr. Berfu Çerçi Öngün*
Friday	19 February		
08:00-8:50	09:00-09:50	Myopathies and myasthenia gravis	Dr. Pınar Kahraman Koytak
09:00-09:50	10:00-10:50	Spinal reflexes	Dr. Özgür Kasımay Çakır
10:00-10:50	11:00-11:50	Spinal reflexes	Dr. Özgür Kasımay Çakır
12:00-12:50	13:00-13:50	Basic principles of action of drugs affecting neurotransmission	Dr. Eren Sakallı*
13:00-13:50	14:00-14:50	Cerebrospinal circulation	Dr. Alper Yıldırım
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	Visual pathway	Dr. Ümit Süleyman Şehirli
16:00-16:50	17:00-17:50	STUDY TIME	
Saturday	20 February		
11.00-15.00	12.00-16.00	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*

6 th Week (22 November – 26 February, 2021)			
Monday	22 February		
08:40-09:30	09:40-10:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
09:40-10:30	10:40-11:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
10:40-11:30	11:40-12:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
11:40-12:30	12:40-13:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
13:40-14:30	14:40-15:30	STUDY TIME	
14:40-15:30	15:40-16:30	STUDY TIME	
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Inst. Deren Çeker*
16:40-17:30	17:40-18:30	STUDY TIME	
Tuesday	23 February		
08:00-8:50	09:00-09:50	Head trauma and increased intracranial pressure	Dr. Fatih Bayraklı
09:00-09:50	10:00-10:50	Pathology of cerebrovascular disease	Dr. Süheyla Bozkurt
10:00-10:50	11:00-11:50	Pathology of cerebrovascular disease	Dr. Süheyla Bozkurt
12:00-12:50	13:00-13:50	Slow virus infections and prion diseases	Dr. Ufuk Hasdemir
13:00-13:50	14:00-14:50	Rabies	Dr. Ufuk Hasdemir
14:00-14:50	15:00-15:50	Introduction to pathology of muscle diseases and peripheral nerve	Dr. Rengin Asiye Ahıskalı
15:00-15:50	16:00-16:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
16:00-16:50	17:00-17:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
Wednesday	24 February		
08:00-8:50	09:00-09:50	Nervous system tumors	Dr. Süheyla Bozkurt
09:00-09:50	10:00-10:50	Nervous system tumors	Dr. Süheyla Bozkurt

Y3C3 Last Updated on 09 March, 2021

10:00-10:50	11:00-11:50	Headache in the emergency room	Dr. Tülin Tanrıdağ
12:00-12:50	13:00-13:50	Neurological emergencies	Dr. Tülin Tanrıdağ
13:00-13:50	14:00-14:50	Pharmacotherapy in epilepsy	Dr. Eren Sakallı*
14:00-14:50	15:00-15:50	Clinical pharmacology of opioids	Dr. Eren Sakallı*
15:00-15:50	16:00-16:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
16:00-16:50	17:00-17:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
Thursday	25 February		
08:00-8:50	09:00-09:50	Adult patient with paresthesia, arthralgia and lethargia	Dr. Mehmet Akman
09:00-09:50	10:00-10:50	Autonomic nervous system	Dr. Ural Verimli
10:00-10:50	11:00-11:50	Autonomic nervous system	Dr. Ural Verimli
12:00-12:50	13:00-13:50	Anesthetic premedication	Dr. Atila Karaalp
13:00-13:50	14:00-14:50	Skeletal muscle relaxants	Dr. Atila Karaalp
14:00-14:50	15:00-15:50	Spinal trauma and degenerative diseases	Dr. Ferhat Harman
15:00-15:50	16:00-16:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
16:00-16:50	17:00-17:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
Friday	26 February		
08:00-8:50	09:00-09:50	Introduction to neuroradiology	Dr. Onur Buğdaycı
09:00-09:50	10:00-10:50	Introduction to neuroradiology	Dr. Onur Buğdaycı
10:00-10:50	11:00-11:50	Motor neuron disorders	Dr. Barış İşak
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	Pathology LAB: Pathology of central nervous system	Dr. Süheyla Bozkurt
14:00-14:50	15:00-15:50	Bacterial and aseptic meningitis	Dr. Buket Ertürk Şengel
15:00-15:50	16:00-16:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*

Y3C3 Last Updated on 09 March, 2021

16:00-16:50	17:00-17:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
7th Week (01 – 05 March, 2021)			
Monday	01 March		
08:40-09:30	09:40-10:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
09:40-10:30	10:40-11:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
10:40-11:30	11:40-12:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
11:40-12:30	12:40-13:30	Turkish For Medical Students-IV (Foreign Students)	Inst. Emine Özerinç*
13:40-14:30	14:40-15:30	STUDY TIME	
14:40-15:30	15:40-16:30	STUDY TIME	
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Inst. Deren Çeker*
16:40-17:30	17:40-18:30	(MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology) STUDY TIME	
Tuesday	02 March		
08:00-8:50	09:00-09:50	Dementia, Alzheimer's disease and related dementias	Dr. Emine Neşe Tuncer Elmacı
09:00-09:50	10:00-10:50	Infectious diseases of the nervous system	Dr. Eda Kenepekli
10:00-10:50	11:00-11:50	Pharmacotherapy of Parkinson's disease	Dr. Eren Sakallı*
12:00-12:50	13:00-13:50	Introduction to pediatric neurology: From symptoms to signs	Dr. Olcay Ünver
13:00-13:50	14:00-14:50	Peripheral nerve disorders	Dr. Barış İşak
14:00-14:50	15:00-15:50	Peripheral nerve disorders	Dr. Barış İşak
15:00-15:50	16:00-16:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
16:00-16:50	17:00-17:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
Wednesday	03 March		
08:00-8:50	09:00-09:50	Management of pain	Dr. Beliz Bilgili

Y3C3 Last Updated on 09 March, 2021

09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-12:50	13:00-13:50	Principles of CT and MRI	Dr. Günseli Ayşe Garip İnhan
13:00-13:50	14:00-14:50	Anatomy LAB: Autonomic Nervous System	Dr. Ural Verimli Dr. Berfu Ç. Öngün*
14:00-14:50	15:00-15:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
15:00-15:50	16:00-16:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
16:00-16:50	17:00-17:50	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç*
Thursday	04 March		
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	Rehabilitation of neurological disorders	Dr. N. Evrim Karadağ Saygı
15:00-15:50	16:00-16:50	Rehabilitation of neurological disorders	Dr. N. Evrim Karadağ Saygı
Friday	05 March		
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	STUDY TIME	
16:00-16:50	17:00-17:50	STUDY TIME	

Y3C3 Last Updated on 09 March, 2021

8 th Week (08– 12 March, 2021)			
Monday	08 March		
08:40-09:30	09:40-10:30	STUDY TIME	
09:40-10:30	10:40-11:30	STUDY TIME	
10:40-11:30	11:40-12:30	STUDY TIME	
11:40-12:30	12:40-13:30	STUDY TIME	
13:40-14:30	14:40-15:30	STUDY TIME	
14:40-15:30	15:40-16:30	STUDY TIME	
15:40-16:30	16:40-17:30	STUDY TIME	
16:40-17:30	17:40-18:30	STUDY TIME	
Tuesday	09 March		
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	STUDY TIME	
16:00-16:50	17:00-17:50	STUDY TIME	
Wednesday	10 March		
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	STUDY TIME	

Y3C3 Last Updated on 09 March, 2021

Thursday	11 March		
08:00-8:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	STUDY TIME	
Friday	12 March		
08:00-8:50	09:00-09:50	Y3C3 THEORETICAL EXAM Starts at 10.00 (Turkey Local Time)	
09:00-09:50	10:00-10:50		
10:00-10:50	11:00-11:50		
12:00-12:50	13:00-13:50		
13:00-13:50	14:00-14:50		
14:00-14:50	15:00-15:50	Y3C3 EXAM REVISION SESSION Starts at 14:00 (Local Time) on TEAMS	
15:00-15:50	16:00-16:50		
16:00-16:50	17:00-17:50		