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| C:\Users\Namariel\Downloads\TıpF (1)\TıpF\TıpF-2.png  **MARMARA UNIVERSITY SCHOOL of MEDICINE** | | | |
| indir.jpg  NERVOUS SYSTEM AND RELATED DISORDERS  YEAR 3 COURSE 3  December 26, 2022 – March 03, 2023 | | | |
| **Coordinator of the Course 3.3**  Prof. Esra AKDENİZ | | **Coordinator of the Module 3.3**  Prof. Adnan DAĞÇINAR | |
| **Year 3 Coordinators**  Prof. Arzu İLKİ & Assoc. Prof. Pınar MEGA TİBER | | | |
| **Module Coordinator**  Prof. Rezzan GÜLHAN, Assist.Prof. Sinem YILDIZ İNANICI | | **Introduction to Clinical Practice (ICP) Coordinators**  Prof. Pemra CÖBEK ÜNALAN  Prof. Serap ÇİFÇİLİ | |
| **Coordinator of Multidisciplinary Students’ Lab**.  Prof. Betül YILMAZ | | **Coordinator of Clinical Skills Lab.**  Prof. Çiğdem APAYDIN KAYA | |
| **Coordinator of Assessment Unite**  Assist. Prof. Cevdet NACAR | | **Coordinator of Student Exchange Programs**  Assist. Prof. Can ERZİK | |
| **Vice-Chief Coordinators** | | | |
| **Program**  Prof. Oya ORUN | **Assessment**  Prof. Hasan R. YANANLI | | **Students’ Affairs**  Assist. Prof. Can ERZİK |
| **Chief Coordinator (Pre-Clinical Education)**  Prof. Serap ŞİRVANCI | | **Coordinator of Medical Education Program Evaluation and Development Commission**  Prof. Harika ALPAY | |
| **Vice Dean (Education)**  Prof. Altuğ ÇİNÇİN & Prof. Hasan Raci YANANLI | | **Dean**  Prof. Ümit Süleyman ŞEHİRLİ | |

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| MU MEDICAL SCHOOL PRE-CLINICAL EDUCATION PROGRAM |
| LEARNING OUTCOMES / COMPETENCIES   1. Clinical Care: Qualified patient care and community oriented health care 2. Basic clinical skills 3. The organization and management of the patient and the patient care 4. The organization and the management of health care delivery services / system 5. Health promotion and disease prevention 6. Medical Knowledge and Evidence-Based Medicine 7. Appropriate information retrieval and management skills 8. The integration of knowledge, critical thinking and evidence-based decision making 9. Scientific methods and basic research skills 10. Professional Attitudes and Values 11. Communication skills and effective communication with patients / patient relatives 12. Interpersonal relationships and team working 13. Ethical and professional values, responsibilities 14. Individual, social and cultural values and responsibilities 15. Reflective practice and continuing development 16. Healthcare delivery systems, management and community oriented health care 17. 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 : Growth, Development, Mental Health and Related Disorders  Year 3, Course 5: Urinary and Reproductive System and Related Disorders |

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| 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 & MODULE-3.3 | | |
| * Anatomy * Anesthesiology * Biophysics * Emergency Medicine * Family Medicine * Forensic Medicine * Histology and Embryology * Infectious Diseases * Medical Biology * Microbiology * Neurology | * Neurosurgery * Pathology * Pharmacology * Physical Therapy and Rehabilitation * Physiology * Psychiatry * Physical Therapy and Rehabilitation Medical Education * Radiology * Public Health | |

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| LECTURERS / TUTORS | |
| Kadriye AĞAN YILDIRIM, Professor of Neurology  Rengin Asiye AHISKALI, Professor of Pathology  Dilek AKAKIN, Professor of Histology and Embryology  Ahmet AKICI, Professor of Pharmacology  Mehmet AKMAN, Professor of Family Medicine  Pınar ATA, Professor of Medical Biology  Nadiye Pınar AY, Professor of Public Health  Fatih BAYRAKLI, Professor of Neurosurgery  Beliz BİLGİLİ, Assoc. Professor of Anesthesiology  Hüseyin BİLGİN, Ph.D. in Infectious Diseases  Süheyla BOZKURT, Professor of Pathology  Onur BUĞDAYCI, Assist. Professor of Radiology  Gülru Pemra CÖBEK ÜNALAN, Professor of Family Medicine  Günseli Ayşe GARİP İNHAN, Assoc. Professor of Biophysics  Zafer GÖREN, Professor of Pharmacology  Rezzan GÜLHAN, Professor of Pharmacology  Ferhat HARMAN, Professor of Neurosurgery  Ufuk HASDEMİR, Professor of Microbiology  Dilek İNCE GÜNAL, Professor of Neurology  Barış İŞAK, Professor of Neurology | N. Evrim KARADAĞ SAYGI, Professor of Physical Therapy and Rehabilitation  Ayşegül KARAHASAN, Professor of Microbiology  Özgür KASIMAY, Professor of Physiology  Mert KAŞKAL, Expert PhD in Pharmacology  Eda KEPENEKLİ KADAYİFCİ, Assoc. Professor of Pediatrics  Nimet Emel LÜLECİ, Professor of Public Health  İpek MİDİ, Professor of Neurology  Filiz ONAT, Professor of Pharmacology  Necmettin Ömer ÖZDOĞMUŞ, Professor of Anatomy  Ümit Süleyman ŞEHİRLİ, Professor of Anatomy  Serap ŞİRVANCI, Professor of Histology and Embryology  Tülin TANRIDAĞ, Professor of Neurology  Ahmet TOPUZOĞLU, Professor of Public Health  Arzu UZUNER, Professor of Family Medicine  Nurver ÜLGER, Professor of Microbiology  Olcay ÜNVER, Assoc. Professor of Pediatrics  Ural VERİMLİ, Assist. Professor of Anatomy  Hasan Raci YANANLI, Professor of Pharmacology  Alper YILDIRIM, Assoc. Professor of Physiology  Sinem YILDIZ İNANICI, Assist. Professor of Medical Education  Mustafa İbrahim ZİYAL, Professor of Neurosurgery |
| 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. | |

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| SUMMARY OF THE COURSE | | | |
| **Discipline** | **Lecture & Group Discussion** | **Multidisciplinary Lab. & Clinical Skills Lab. Practice** | Total |
| Anatomy | 31 | 9 | 40 |
| Anesthesiology | 1 |  | 1 |
| Biophysics | 1 | 1 | 2 |
| Pediatrics | 2 |  | 2 |
| Family Medicine | 3 |  | 3 |
| Histology and Embryology | 2 | 1 | 3 |
| Infectious Diseases | 1 |  | 1 |
| Genetics | 1 |  | 1 |
| Microbiology | 4 |  | 4 |
| Neurology | 15 |  | 16 |
| Neurosurgery | 2 |  | 3 |
| Pathology | 11 | 1 | 12 |
| Pharmacology | 10 |  | 10 |
| Physical Medicine and Rehabilitation | 2 |  | 2 |
| Physiology | 11 |  | 12 |
| Public Health | 3 |  | 3 |
| Radiology | 2 |  | 2 |
| Subtotal | 105 | 12 | 117 |
| PBL Module | 8 |  | 8 |
| TOTAL | 113 | 12 | 125 |
| ICP-3: Basic Medical Practices, Clinical Skills Lab., (Students’ Research Activity) |  | 24 | 24 |
| **TOTAL** | **113** | **36** | **149** |

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| **EIGHT WEEK PROGRAM** | | |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week – 1 (26 December - 30 December 2022)** | | |
| **Monday** | **26 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 | Introduction to the course | Dr. Sinem Yıldız İnanıcı |
|  |  |  |
| 13:40-14:30 | General structure of the spinal cord | Dr. Necmettin Ömer Özdoğmuş |
| 14:40-15:30 | General structure of the spinal cord | Dr. Necmettin Ömer Özdoğmuş |
| 15:40-16:30 | Elective Course |  |
| 16:40-17:30 | Elective Course |  |
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| **Tuesday** | **27 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Descending pathways | Dr. Necmettin Ömer Özdoğmuş |
| 10:40-11:30 | Ascending pathways | Dr. Necmettin Ömer Özdoğmuş |
| 11:40-12:30 | Ascending pathways | Dr. Necmettin Ömer Özdoğmuş |
|  |  |  |
| 13:40-14:30 | Cerebral cortex: functional areas & general topography | Dr. Ümit Süleyman Şehirli |
| 14:40-15:30 | Cerebral cortex: functional areas & general topography | Dr. Ümit Süleyman Şehirli |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **28 December** |  |
| 08:40-09:30 | Spinal cord/Brain Stem-Group A | Anatomy Lab. |
| 09:40-10:30 | Spinal cord/Brain Stem-Group B | Anatomy Lab. |
| 10:40-11:30 | Spinal cord/Brain Stem-Group C | Anatomy Lab. |
| 11:40-12:30 | Spinal cord/Brain Stem-Group D | Anatomy Lab. |
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| 13:40-14:30 | Basic histopathologic neuronal reaction to injury | Dr. Süheyla Bozkurt |
| 14:40-15:30 | Epidemiology of neurological diseases | Dr. Nimet Emel Lüleci |
| 15:40-16:30 | Epidemiology and prevention of occupational neurological disorders | Dr. Ahmet Topuzoğlu |
| 16:40-17:30 |  |  |
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| **Thursday** | **29 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Brain stem | Dr. Necmettin Ömer Özdoğmuş |
| 10:40-11:30 | Brain stem | Dr. Necmettin Ömer Özdoğmuş |
| 11:40-12:30 | Brain stem | Dr. Necmettin Ömer Özdoğmuş |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Meninges & dural sinuses of the brain | Dr. Ümit Süleyman Şehirli |
| 15:40-16:30 | Meninges & dural sinuses of the brain | Dr. Ümit Süleyman Şehirli |
| 16:40-17:30 |  |  |
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| **Friday** | **30 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Week – 2 (02 January - 06 January 2023)** | | |
| **Monday** | **02 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Cerebellum | Dr. Ural Verimli |
| 10:40-11:30 | Thalamus | Dr. Ümit Süleyman Şehirli |
| 11:40-12:30 | White matter of cerebrum | Dr. Ümit Süleyman Şehirli |
|  |  |  |
| 13:40-14:30 | Cerebellum | Dr. Özgür Kasımay |
| 14:40-15:30 | Cerebellum | Dr. Özgür Kasımay |
| 15:40-16:30 | Elective Course |  |
| 16:40-17:30 | Elective Course |  |
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| **Tuesday** | **03 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Epidemiology and control of dementias | Dr. Ayşe Gülsen Teker |
| 11:40-12:30 | Genetic basis of neurological diseases | Dr. Pınar Ata |
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| 13:40-14:30 | Epilepsy | Dr. Kadriye Ağan Yıldırım |
| 14:40-15:30 | Epilepsy | Dr. Kadriye Ağan Yıldırım |
| 15:40-16:30 | Sleep and sleep disorders | Dr. Kadriye Ağan Yıldırım |
| 16:40-17:30 | Cerebrum, cerebellum and spinal cord | Dr. Serap Şirvancı |
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| **Wednesday** | **04 January** |  |
| 08:40-09:30 | Anatomy LAB: Cerebral cortex: functional areas & general topography-Group A |  |
| 09:40-10:30 | Anatomy LAB: Cerebral cortex: functional areas & general topography-Group B |  |
| 10:40-11:30 | Anatomy LAB: Cerebral cortex: functional areas & general topography-Group C |  |
| 11:40-12:30 | Anatomy LAB: Cerebral cortex: functional areas & general topography-Group D |  |
|  |  |  |
| 13:40-14:30 | Limbic system and pineal gland | Dr. Ural Verimli |
| 14:40-15:30 | Hypothalamus and pituitary gland | Dr. Ural Verimli |
| 15:40-16:30 | Basal ganglia subthalamus | Dr. Ümit Süleyman Şehirli |
| 16:40-17:30 | Basal ganglia subthalamus | Dr. Ümit Süleyman Şehirli |
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| **Thursday** | **05 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Review: Development of the nervous system | Dr. Dilek Akakın |
| 10:40-11:30 | Vessels of the central nervous system | Dr. Ümit Süleyman Şehirli |
| 11:40-12:30 | Vessels of the central nervous system | Dr. Ümit Süleyman Şehirli |
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| 13:40-14:30 | Signs and symptoms in neurology | Dr. İpek Midi |
| 14:40-15:30 | Signs and symptoms in neurology | Dr. İpek Midi |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Friday** | **06 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | The basal nuclei | Dr. Hızır Kurtel |
| 10:40-11:30 | Cranial nerves | Dr. Ümit Süleyman Şehirli |
| 11:40-12:30 | Cranial nerves | Dr. Ümit Süleyman Şehirli |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Organization of the cortex; motor cortex and corticospinal system | Dr. Alper Yıldırım |
| 15:40-16:30 | Organization of the cortex; motor cortex and corticospinal system | Dr. Alper Yıldırım |
| 16:40-17:30 |  |  |
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| **Week – 3 (09 January - 13 January 2023)** | | |
| **Monday** | **09 January** |  |
| 08:40-09:30 | Cranial nerves | Dr. Ümit Süleyman Şehirli |
| 09:40-10:30 | Cranial nerves | Dr. Ümit Süleyman Şehirli |
| 10:40-11:30 | Autonomic nervous system | Dr. Ural Verimli |
| 11:40-12:30 | Autonomic nervous system | Dr. Ural Verimli |
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| 13:40-14:30 | Brain ventricles and subarachnoid spaces | Dr. Ural Verimli |
| 14:40-15:30 |  |  |
| 15:40-16:30 | Elective Course |  |
| 16:40-17:30 | Elective Course |  |
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| **Tuesday** | **10 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 | Neurodegenerative diseases & dementia | Dr. Süheyla Bozkurt |
| 14:40-15:30 | Pathology of demyelinating diseases | Dr. Süheyla Bozkurt |
| 15:40-16:30 |  |  |
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| **Wednesday** | **11 January** |  |
| 08:40-09:30 | Anatomy LAB: Meninges & dural sinuses of the brain-Group A |  |
| 09:40-10:30 | Anatomy LAB: Meninges & dural sinuses of the brain -Group B |  |
| 10:40-11:30 | Anatomy LAB: Meninges & dural sinuses of the brain -Group C |  |
| 11:40-12:30 | Anatomy LAB: Meninges & dural sinuses of the brain -Group D |  |
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| 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 | Poliomyelitis | Dr. Ayşegül Karahasan |
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| **Thursday** | **12 January** |  |
| 08:40-09:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 09:40-10:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 10:40-11:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 11:40-12:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
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| 13:40-14:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 14:40-15:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 15:40-16:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 16:40-17:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
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| **Friday** | **13 January** |  |
| 08:40-09:30 | Vestibular system and auditory pathway | Dr. Ural Verimli |
| 09:40-10:30 | Vestibular system and auditory pathway | Dr. Ural Verimli |
| 10:40-11:30 | Pathology of central nervous system infections | Dr. Rengin Asiye Ahıskalı |
| 11:40-12:30 | Pathology of central nervous system infections | Dr. Rengin Asiye Ahıskalı |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 | **KBB sınavı** |  |
| 16:40-17:30 |  |
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| **Week – 4 (16 January - 20 January 2023)** | | |
| **Monday** | **16 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Visual pathway | Dr. Ümit Süleyman Şehirli |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 | Elective Course |  |
| 16:40-17:30 | Elective Course |  |
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| **Tuesday** | **17 January** |  |
| 08:40-09:30 | Pharmacotherapy of cognitive disorders | Dr. Zafer Gören |
| 09:40-10:30 | Local and general anesthetics | Dr. Ahmet Akıcı |
| 10:40-11:30 | Local and general anesthetics | Dr. Ahmet Akıcı |
| 11:40-12:30 | Myopathies and myasthenia gravis | Dr. Tülin Tanrıdağ |
|  |  |  |
| 13:40-14:30 | Cerebrovascular disease | Dr. İpek Midi |
| 14:40-15:30 | Cerebrovascular disease | Dr. İpek Midi |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **18 January** |  |
| 08:40-09:30 | Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal /Autonomic Nerves System-Group A  Histology LAB: Cerebrum, cerebellum and spinal cord-Group D |  |
| 09:40-10:30 | Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal /Autonomic Nerves System-Group B  Histology LAB: Cerebrum, cerebellum and spinal cord-Group C |  |
| 10:40-11:30 | Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal /Autonomic Nerves System-Group C  Histology LAB: Cerebrum, cerebellum and spinal cord-Group B |  |
| 11:40-12:30 | Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal /Autonomic Nerves System-Group D  Histology LAB: Cerebrum, cerebellum and spinal cord-Group A |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Thursday** | **19 January** |  |
| 08:40-09:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 09:40-10:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 10:40-11:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 11:40-12:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
|  |  |  |
| 13:40-14:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 14:40-15:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 15:40-16:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 16:40-17:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
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| **Friday** | **20 January** |  |
| 08:40-09:30 | Cognitive and emotional functions | Dr. Alper Yıldırım |
| 09:40-10:30 | Cognitive and emotional functions | Dr. Alper Yıldırım |
| 10:40-11:30 | Head trauma and increased intracranial pressure | Dr. Fatih Bayraklı |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Introduction to neuroradiology | Dr. Erhan Bıyıklı |
| 15:40-16:30 | Introduction to neuroradiology | Dr. Erhan Bıyıklı |
| 16:40-17:30 |  |  |
|  |  |  |
| **Week – 5 (23 January - 27 January 2023)** | | |
| **Monday** | **23 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Headache in primary care | Dr. Arzu Uzuner |
| 11:40-12:30 | Headache in primary care | Dr. Gülru Pemra Ünalan |
|  |  |  |
| 13:40-14:30 | Cerebrospinal circulation | Dr. Alper Yıldırım |
| 14:40-15:30 |  |  |
| 15:40-16:30 | Elective Course |  |
| 16:40-17:30 | Elective Course |  |
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| **Tuesday** | **24 January** |  |
| 08:40-09:30 | Pathology of cerebrovascular disease | Dr. Süheyla Bozkurt |
| 09:40-10:30 | Pathology of cerebrovascular disease | Dr. Süheyla Bozkurt |
| 10:40-11:30 | Nervous system malformations | Dr. Rengin Asiye Ahıskalı |
| 11:40-12:30 | Introduction to pathology of muscle diseases and peripheral nerve | Dr. Rengin Asiye Ahıskalı |
|  |  |  |
| 13:40-14:30 | Anesthetic premedication | Dr. Mert Kaşkal |
| 14:40-15:30 | Skeletal muscle relaxants | Dr. Mert Kaşkal |
| 15:40-16:30 | Motor neuron disorders | Dr. Barış İşak |
| 16:40-17:30 | Bacterial and aseptic meningitis | Dr. Hüseyin Bilgin |
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| **Wednesday** | **25 January** |  |
| 08:40-09:30 | Anatomy LAB: Cerebellum , Brain ventricles and subarachnoid spaces-Group A |  |
| 09:40-10:30 | Anatomy LAB: Cerebellum , Brain ventricles and subarachnoid spaces-Group B |  |
| 10:40-11:30 | Anatomy LAB: Cerebellum , Brain ventricles and subarachnoid spaces-Group C |  |
| 11:40-12:30 | Anatomy LAB: Cerebellum , Brain ventricles and subarachnoid spaces-Group D |  |
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| 13:40-14:30 | Headache in the emergency room | Dr. Tülin Tanrıdağ |
| 14:40-15:30 | Neurological emergencies | Dr. Tülin Tanrıdağ |
| 15:40-16:30 | Adult patient with paresthesia, arthralgia and lethargia | Dr. Mehmet Akman |
| 16:40-17:30 |  |  |
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| **Thursday** | **26 January** |  |
| 08:40-09:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 09:40-10:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 10:40-11:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 11:40-12:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
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| 13:40-14:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 14:40-15:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 15:40-16:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
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| **Friday** | **27 January** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Week – 6 (13 February - 17 February 2022)** | | |
| **Monday** | **13 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Introduction to CNS pharmacology | Dr. Rezzan Gülhan |
| 10:40-11:30 | Basic principles of action of drugs affecting neurotransmission | Dr. Rezzan Gülhan |
| 11:40-12:30 | Pharmacotherapy in epilepsy | Dr. Rezzan Gülhan |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Peripheral nerve disorders | Dr. Barış İşak |
| 15:40-16:30 | Elective Course |  |
| 16:40-17:30 | Elective Course |  |
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| **Tuesday** | **14 February** |  |
| 08:40-09:30 | Clinical pharmacology of opioids | Dr. Hasan Raci Yananlı |
| 09:40-10:30 | Dementia, Alzheimer's disease and related dementias | Dr. Hatice Ömercikoğlu Özden |
| 10:40-11:30 | Introduction to pediatric neurology: From symptoms to signs | Dr. Gülten Öztürk |
| 11:40-12:30 | Principles of CT and MRI | Dr. Pınar Mega Tiber |
|  |  |  |
| 13:40-14:30 | Tetanus | Dr. Nurver Ülger |
| 14:40-15:30 | PBL-1 |  |
| 15:40-16:30 | PBL-1 |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **15 February** |  |
| 08:40-09:30 | Anatomy LAB: Cranial nerves I-II/Group A | Anatomy Lab. |
| 09:40-10:30 | Anatomy LAB: Cranial nerves I/II-Group B | Anatomy Lab. |
| 10:40-11:30 | Anatomy LAB: Cranial nerves I/II-Group C | Anatomy Lab. |
| 11:40-12:30 | Anatomy LAB: Cranial nerves I/II-Group D | Anatomy Lab. |
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| 13:40-14:30 | Pharmacotherapy of Parkinson's disease | Dr. Rezzan Gülhan |
| 14:40-15:30 | Infectious diseases of the nervous system | Dr. Eda Kepenekli |
| 15:40-16:30 |  |  |
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| **Thursday** | **16 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Nervous system tumors | Dr. Süheyla Bozkurt |
| 11:40-12:30 | Nervous system tumors | Dr. Süheyla Bozkurt |
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| 13:40-14:30 | Pathology LAB: Pathology of central nervous system-A | Multidisciplinary Lab. |
| 14:40-15:30 | Pathology LAB: Pathology of central nervous system-B | Multidisciplinary Lab. |
| 15:40-16:30 | Pathology LAB: Pathology of central nervous system-C | Multidisciplinary Lab. |
| 16:40-17:30 | Pathology LAB: Pathology of central nervous system-D | Multidisciplinary Lab. |
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| **Friday** | **17 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Management of pain | Dr. Beliz Bilgili |
| 10:40-11:30 | Brain stem review | Dr. Alper Yıldırım |
| 11:40-12:30 | Free Study Time |  |
|  |  |  |
| 13:40-14:30 | Free Study Time |  |
| 14:40-15:30 | PBL-2 |  |
| 15:40-16:30 | PBL-2 |  |
| 16:40-17:30 | **ICP iletişim sınavı** |  |
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| **Week – 7 (20 February - 24 February 2023)** | | |
| **Monday** | **20 February** |  |
| 08:40-09:30 | Biophysics LAB: Principles of EEG |  |
| 09:40-10:30 | Biophysics LAB: Principles of EEG |  |
| 10:40-11:30 | Biophysics LAB: Principles of EEG |  |
| 11:40-12:30 | Biophysics LAB: Principles of EEG |  |
|  |  |  |
| 13:40-14:30 | Biophysics LAB: Principles of EEG |  |
| 14:40-15:30 | Biophysics LAB: Principles of EEG |  |
| 15:40-16:30 | Elective Course |  |
| 16:40-17:30 | Elective Course |  |
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| **Tuesday** | **21 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Spinal trauma and degenerative diseases | Dr. Ferhat Harman |
| 10:40-11:30 | Slow virus infections and prion diseases | Dr. Ufuk Hasdemir |
| 11:40-12:30 | Rabies | Dr. Ufuk Hasdemir |
|  |  |  |
| 13:40-14:30 | Free Study Time |  |
| 14:40-15:30 | PBL-3 |  |
| 15:40-16:30 | PBL-3 |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **22 February** |  |
| 08:40-09:30 | Anatomy LAB: Basal ganglia, thalamus, subthalamus (Group A) | Anatomy Lab. |
| 09:40-10:30 | Anatomy LAB: Basal ganglia, thalamus, subthalamus (Group B) | Anatomy Lab. |
| 10:40-11:30 | Anatomy LAB: Basal ganglia, thalamus, subthalamus (Group C) | Anatomy Lab. |
| 11:40-12:30 | Anatomy LAB: Basal ganglia, thalamus, subthalamus (Group D) | Anatomy Lab. |
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| 13:40-14:30 | Rehabilitation of neurological disorders | Dr. N. Evrim Karadağ Saygı |
| 14:40-15:30 | Rehabilitation of neurological disorders | Dr. N. Evrim Karadağ Saygı |
| 15:40-16:30 | Spinal reflexes | Dr. Özgür Kasımay |
| 16:40-17:30 | Spinal reflexes | Dr. Özgür Kasımay |
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| **Thursday** | **23 February** |  |
| 08:40-09:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 09:40-10:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 10:40-11:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 11:40-12:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
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| 13:40-14:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 14:40-15:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 15:40-16:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
| 16:40-17:30 | ICP-3 (Clinical Skills Lab/Basic Medical Practice/Student Research Activity) |  |
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| **Friday** | **24 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Free Study Time |  |
| 15:40-16:30 | PBL-3 |  |
| 16:40-17:30 | PBL-3 |  |
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| **Week – 8 (27 February - 03 March 2023)** | | |
| **Monday** | **27 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Introduction to CNS pharmacology | Dr. Filiz Onat |
| 11:40-12:30 | Basic principles of action of drugs affecting neurotransmission | Dr. Filiz Onat |
|  |  |  |
| 13:40-14:30 | Pharmacotherapy in epilepsy | Dr. Filiz Onat |
| 14:40-15:30 | Peripheral nerve disorders | Dr. Barış İşak |
| 15:40-16:30 | Clinical pharmacology of opioids | Dr. Hasan Raci Yananlı |
| 16:40-17:30 | Spinal trauma and degenerative diseases | Dr. Ferhat Harman |
| 17:40-18:30 |  |  |
|  |  |  |
| **Tuesday** | **28 February** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Tetanus | Dr. Nurver Ülger |
| 10:40-11:30 | Pharmacotherapy of Parkinson's disease | Dr. Rezzan Gülhan |
| 11:40-12:30 | Infectious diseases of the nervous system | Dr. Eda Kepenekli |
|  |  |  |
| 13:40-14:30 | Slow virus infections and prion diseases | Dr. Ufuk Hasdemir |
| 14:40-15:30 | Rabies | Dr. Ufuk Hasdemir |
| 15:40-16:30 | PBL-1 |  |
| 16:40-17:30 | PBL-1 |  |
| 17:40-18:30 |  |  |
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| **Wednesday** | **01 March** |  |
| 08:40-09:30 | Management of pain | Dr. Beliz Bilgili |
| 09:40-10:30 | Brain stem review | Dr. Alper Yıldırım |
| 10:40-11:30 | Introduction to pediatric neurology: From symptoms to signs | Dr. Gülten Öztürk |
| 11:40-12:30 | Dementia, Alzheimer's disease and related dementias | Dr. Hatice Ömercikoğlu Özden |
|  |  |  |
| 13:40-14:30 | Nervous system tumors | Dr. Süheyla Bozkurt |
| 14:40-15:30 | Nervous system tumors | Dr. Süheyla Bozkurt |
| 15:40-16:30 | Pathology LAB: Pathology of central nervous system | Dr. Süheyla Bozkurt |
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| **Thursday** | **02 March** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Biophysics LAB: Principles of EEG | Dr. Pınar Mega Tiber |
| 10:40-11:30 | Anatomy LAB: Cranial nerves I-II/Group A | Dr. Özlem Kirazlı |
| 11:40-12:30 | Anatomy LAB: Basal ganglia, thalamus, subthalamus (Group A) | Dr. Özlem Kirazlı |
|  |  |  |
| 13:40-14:30 | Spinal reflexes | Dr. Özgür Kasımay |
| 14:40-15:30 | Spinal reflexes | Dr. Özgür Kasımay |
| 15:40-16:30 | PBL-2 |  |
| 16:40-17:30 | PBL-2 |  |
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| **Friday** | **03 March** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Principles of CT and MRI | Dr. Oya Orun |
| 10:40-11:30 | Rehabilitation of neurological disorders | Dr. N. Evrim Karadağ Saygı |
| 11:40-12:30 | Rehabilitation of neurological disorders | Dr. N. Evrim Karadağ Saygı |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
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| **Week – 9 (03 July - 07 July 2023)** | | |
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| **Monday** | **03 July** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Tuesday** | **04 July** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
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| **Wednesday** | **05 July** |  |
| **10:00** | **Y3C3 THEORETICAL EXAM** | **ONLINE** |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
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| **Thursday** | **06 July** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
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| **Friday** | **07 July** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
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