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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 23, 2019 – February 27, 2020 | | | |
| **Coordinator of the Course 3.3**  Assist. Prof., Sinem Yıldız İnanıcı | | **Coordinator of the Module 3.3**  Prof., Adnan DAĞÇINAR | |
| **Year 3 Coordinators**  Prof., Arzu İLKİ & Assoc. Prof., Pınar Mega TİBER | | | |
| **Module Coordinator**  Prof., Özlem SARIKAYA | | **Introduction to Clinical Practice (ICP) Coordinators**  Prof, Pemra ÜNALAN | |
| **Coordinator of Multidisciplinary Students’ Lab**.  Assoc. Prof., Betül KARADEMİR | | **Coordinator of Clinical Skills Lab.**  Assoc. Prof., Çiğdem APAYDIN | |
| **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**  Assoc. 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., Ümit ŞEHİRLİ | | **Dean**  Prof., Hakan GÜNDÜZ | |

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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 | |
| Pınar ATA, Professor of Medical Biology  Nadiye Pınar AY, Professor of Public Health  Fatih BAYRAKLI, Prof. of Neurosurgery  Beliz BİLGİLİ, Assist. Professor of Anesthesiology  Süheyla BOZKURT, Professor of Pathology  Gazanfer EKİNCİ, Professor of Radiology  Buket ERTÜRK ŞENGEL, Assist. Professor of Infectious Diseases  Günseli Ayşe GARİP İNHAN, Assoc. Professor of Biophysics  Zafer GÖREN, Professor of Pharmacology  Rezzan GÜLHAN, Professor of Pharmacology  İpek GÜRSOY MİDİ, Professor of Neurology  Ferhat HARMAN, Assoc. Prof. of Neurosurgery  Dilek İNCE GÜNAL, Professor of Neurology  Barış İŞAK, Professor of Neurology  Pınar KAHRAMAN KOYTAK, Assoc. Professor of Neurology  Atila KARAALP, Professor of Pharmacology  N. Evrim KARADAĞ SAYGI, Professor of Physical Therapy and | Ayşegül KARAHASAN, Professor of Microbiology  Özgür KASIMAY ÇAKIR, Assoc. Professor of Physiology  Nimet Emel LÜLECİ, Professor of Public Health  Filiz ONAT, Professor of Pharmacology  Necmettin Ömer ÖZDOĞMUŞ, Assoc. 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  Emine Neşe TUNCER ELMACI, Professor of Neurology  Dilşad TÜRKDOĞAN, Professor of Pediatrics  Arzu UZUNER, Professor of Family Medicine  Nurver ÜLGER, Professor of Microbiology  Gülru Pemra ÜNALAN, Professor of Family Medicine  Olcay ÜNVER, Assist. Professor of Pediatrics  Ural VERİMLİ, Assist. Professor of Anatomy  Alper YILDIRIM, Assoc. Professor of Physiology  Sinem YILDIZ İNANICI, Assist. Professor of Medical Education |
| 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 | 16 |  | 16 |
| Neurosurgery | 3 |  | 3 |
| Pathology | 11 | 1 | 12 |
| Pharmacology | 10 |  | 10 |
| Physical Medicine and Rehabilitation | 2 |  | 2 |
| Physiology | 12 |  | 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 (23 December - 27 December 2019)** | | |
| **Monday** | **23 December** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Introduction to the course | Dr. Sinem Yıldız İnanıcı |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Meninges & dural sinuses of the brain | Dr. Ümit Süleyman Şehirli |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Meninges & dural sinuses of the brain | Dr. Ümit Süleyman Şehirli |
| 12:30-12:35 | Discussion |  |
|  |  |  |
| 13:45-14:30 | Elective course |  |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Elective course |  |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 |  |  |
| 16:30-16:35 |  |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Tuesday** | **24 December** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | General structure of the spinal cord | Dr. Necmettin Ömer Özdoğmuş |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | General structure of the spinal cord | Dr. Necmettin Ömer Özdoğmuş |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Descending pathways | Dr. Necmettin Ömer Özdoğmuş |
| 12:30-12:35 | Discussion |  |
|  |  |  |
| 13:45-14:30 | Genetic basis of neurological diseases | Dr. Pınar Ata |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 |  |  |
| 15:30-15:35 |  |  |
| 15:45-16:30 |  |  |
| 16:30-16:35 |  |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Wednesday** | **25 December** |  |
| 08:45-09:30 | Cerebral cortex: functional areas & general topography | Dr. Ümit Süleyman Şehirli |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Cerebral cortex: functional areas & general topography | Dr. Ümit Süleyman Şehirli |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Anatomy LAB: Meninges & dural sinuses of the brain-Group B | Anatomy Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Anatomy LAB: Meninges & dural sinuses of the brain-Group A | Anatomy Lab. |
| 12:30-12:35 | Discussion |  |
|  |  |  |
| 13:45-14:30 | Ascending pathways | Dr. Necmettin Ömer Özdoğmuş |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Ascending pathways | Dr. Necmettin Ömer Özdoğmuş |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 |  |  |
| 16:30-16:35 |  |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Thursday** | **26 December** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Brain stem | Dr. Necmettin Ömer Özdoğmuş |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Brain stem | Dr. Necmettin Ömer Özdoğmuş |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Brain stem | Dr. Necmettin Ömer Özdoğmuş |
| 12:30-12:35 | Discussion |  |
|  |  |  |
| 13:45-14:30 | Anatomy LAB: Spinal cord-Group B | Anatomy Lab. |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Anatomy LAB: Spinal cord-Group A | Anatomy Lab. |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 |  |  |
| 16:30-16:35 |  |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Friday** | **27 December** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Thalamus | Dr. Ümit Süleyman Şehirli |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | White matter of cerebrum | Dr. Ümit Süleyman Şehirli |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Cerebrum, cerebellum and spinal cord | Dr. Serap Şirvancı |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 |  |  |
| 14:30-14:35 |  |  |
| 14:45-15:30 | Cerebellum | Dr. Ural Verimli |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Anatomy LAB: Cerebral cortex: functional areas & general topography-Group A | Anatomy Lab. |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 | Anatomy LAB: Cerebral cortex: functional areas & general topography-Group B | Anatomy Lab. |
| 17:30-17:35 | Discussion |  |
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| **Week – 2 (30 December 2019 - 03 January 2020)** | | |
| **Monday** | **30 December** |  |
| 08:45-09:30 | Organization of the cortex; motor cortex and corticospinal system | Dr. Yaşar İnci Alican |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Organization of the cortex; motor cortex and corticospinal system | Dr. Yaşar İnci Alican |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Cranial nerves | Dr. Ümit Süleyman Şehirli |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Cranial nerves | Dr. Ümit Süleyman Şehirli |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Elective course |  |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Elective course |  |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 |  |  |
| 16:30-16:35 |  |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Tuesday** | **31 December** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 |  |  |
| 10:30-10:35 |  |  |
| 10:45-11:30 |  |  |
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| 15:45-16:30 |  |  |
| 16:30-16:35 |  |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Wednesday** | **01 January** |  |
| 08:45-09:30 | **YILBAŞI TATİLİ** |  |
| 09:30-09:35 |  |
| 09:45-10:30 |  |
| 10:30-10:35 |  |
| 10:45-11:30 |  |
| 11:30-11:35 |  |
| 11:45-12:30 |  |
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| 14:30-14:35 |  |
| 14:45-15:30 |  |
| 15:30-15:35 |  |
| 15:45-16:30 |  |
| 16:30-16:35 |  |
| 16:45-17:30 |  |
| 17:30-17:35 |  |
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| **Thursday** | **02 January** |  |
| 08:45-09:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 12:30-12:35 | Discussion |  |
|  |  |  |
| 13:45-14:30 | Anatomy LAB: Brain stem-Group B | Anatomy Lab. |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Anatomy LAB: Brain stem-Group A | Anatomy Lab. |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 |  |  |
| 16:30-16:35 |  |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Friday** | **03 January** |  |
| 08:45-09:30 | Limbic system and pineal gland | Dr. Ural Verimli |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Hypothalamus and pituitary gland | Dr. Ural Verimli |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Anatomy LAB: Cerebellum-Group A | Anatomy Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Anatomy LAB: Cerebellum-Group B | Anatomy Lab. |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 |  |  |
| 14:30-14:35 |  |  |
| 14:45-15:30 | Cerebellum | Dr. Yaşar İnci Alican |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Cerebellum | Dr. Yaşar İnci Alican |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Week – 3 (06 January - 10 January 2020)** | | |
| **Monday** | **06 January** |  |
| 08:45-09:30 | Review: Development of the nervous system | Dr. Dilek Akakın |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Basal ganglia subthalamus | Dr. Ümit Süleyman Şehirli |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Basal ganglia subthalamus | Dr. Ümit Süleyman Şehirli |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | The basal nuclei | Dr. Yaşar İnci Alican |
| 12:30-12:35 | Discussion |  |
|  |  |  |
| 13:45-14:30 | Elective course |  |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Elective course |  |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | PBL-1 |  |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 | PBL-1 |  |
| 17:30-17:35 | Discussion |  |
|  |  |  |
| **Tuesday** | **07 January** |  |
| 08:45-09:30 | Cranial nerves | Dr. Ümit Süleyman Şehirli |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Cranial nerves | Dr. Ümit Süleyman Şehirli |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Anatomy LAB: Cranial nerves-Group A | Anatomy Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Anatomy LAB: Cranial nerves-Group B | Anatomy Lab. |
| 12:30-12:35 | Discussion |  |
|  |  |  |
| 13:45-14:30 | Brain stem review | Dr. Alper Yıldırım |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Slow virus infections and prion diseases | Dr. Ayşegül Karahasan |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Rabies | Dr. Ayşegül Karahasan |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Wednesday** | **08 January** |  |
| 08:45-09:30 | Histology LAB: Cerebrum, cerebellum and spinal cord-Group A | Multidisciplinary Lab. |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Histology LAB: Cerebrum, cerebellum and spinal cord-Group B | Multidisciplinary Lab. |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Neurodegenerative diseases & dementia | Dr. Süheyla Bozkurt |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Pathology of demyelinating diseases | Dr. Süheyla Bozkurt |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Vessels of the central nervous system | Dr. Ümit Süleyman Şehirli |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Vessels of the central nervous system | Dr. Ümit Süleyman Şehirli |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 |  |  |
| 16:30-16:35 |  |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Thursday** | **09 January** |  |
| 08:45-09:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Epidemiology and control of dementias | Dr. Nadiye Pınar Ay |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | PBL STUDY TIME |  |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | PBL 2 |  |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 | PBL 2 |  |
| 17:30-17:35 | Discussion |  |
|  |  |  |
| **Friday** | **10 January** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Epidemiology of neurological diseases | Dr. Nimet Emel Lüleci |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal-Group B | Anatomy Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Anatomy LAB: Hypothalamus, pituitary, limbic system and pineal -Group A | Anatomy Lab. |
| 12:30-12:35 | Discussion |  |
|  |  |  |
| 13:45-14:30 |  |  |
| 14:30-14:35 |  |  |
| 14:45-15:30 | Signs and symptoms in neurology | Dr. İpek Gürsoy Midi |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Signs and symptoms in neurology | Dr. İpek Gürsoy Midi |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 | Brain ventricles and subarachnoid spaces | Dr. Ural Verimli |
| 17:30-17:35 | Discussion |  |
|  |  |  |
| **Week – 4 (13 January - 17 January 2020)** | | |
| **Monday** | **13 January** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Epilepsy | Dr. Kadriye Ağan Yıldırım |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Epilepsy | Dr. Kadriye Ağan Yıldırım |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Sleep and sleep disorders | Dr. Kadriye Ağan Yıldırım |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 |  |  |
| 14:30-14:35 |  |  |
| 14:45-15:30 | PBL Study Time |  |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | PBL 3 |  |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 | PBL 3 |  |
| 17:30-17:35 | Discussion |  |
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| **Tuesday** | **14 January** |  |
| 08:45-09:30 | Cognitive and emotional functions | Dr. Alper Yıldırım |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Cognitive and emotional functions | Dr. Alper Yıldırım |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Extrapyramidal system disorders | Dr. Dilek İnce Günal |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Demyelinating disorders | Dr. Dilek İnce Günal |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Introduction to CNS pharmacology | Dr. Filiz Onat |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Autonomic nervous system | Dr. Ural Verimli |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Autonomic nervous system | Dr. Ural Verimli |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Wednesday** | **15 January** |  |
| 08:45-09:30 | Headache in primary care | Dr. Arzu Uzuner |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Headache in primary care | Dr. Gülru Pemra Ünalan |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Anatomy LAB: Basal ganglia, thalamus, subthalamus (Group A) | Anatomy Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Anatomy LAB: Basal ganglia, thalamus, subthalamus (Group B) | Anatomy Lab. |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Poliomyelitis | Dr. Ayşegül Karahasan |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Basic principles of action of drugs affecting neurotransmission | Dr. Filiz Onat |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Basic histopathologic neuronal reaction to injury | Dr. Süheyla Bozkurt |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Thursday** | **16 January** |  |
| 08:45-09:30 |  |  |
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| 12:30-12:35 |  |  |
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| 13:45-14:30 |  |  |
| 14:30-14:35 |  |  |
| 14:45-15:30 | PBL Study Time |  |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | PBL-4 |  |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 | PBL-4 |  |
| 17:30-17:35 | Discussion |  |
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| **Friday** | **17 January** |  |
| 08:45-09:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 |  |  |
| 14:30-14:35 |  |  |
| 14:45-15:30 | Nervous system malformations | Dr. Rengin Asiye Ahıskalı |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Vestibular system and auditory pathway | Dr. Ural Verimli |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 | Vestibular system and auditory pathway | Dr. Ural Verimli |
| 17:30-17:35 | Discussion |  |
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| **Week – 5 (20 January - 24 January 2020)** | | |
| **Monday** | **20 January** |  |
| 08:45-09:30 | Local and general anesthetics | Dr. Ahmet Akıcı |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Local and general anesthetics | Dr. Ahmet Akıcı |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Anatomy LAB: Brain ventricles and subarachnoid spaces (Group A) | Anatomy Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Anatomy LAB: Brain ventricles and subarachnoid spaces (Group B) | Anatomy Lab. |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Elective course |  |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Elective course |  |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 |  |  |
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| 17:30-17:35 |  |  |
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| **Tuesday** | **21 January** |  |
| 08:45-09:30 | Biophysics LAB: Principles of EEG-Group A | Computer Lab. |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Biophysics LAB: Principles of EEG-Group B | Computer Lab. |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Biophysics LAB: Principles of EEG-Group C | Computer Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Biophysics LAB: Principles of EEG-Group D | Computer Lab. |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Biophysics LAB: Principles of EEG-Group E | Computer Lab. |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Biophysics LAB: Principles of EEG-Group E | Computer Lab. |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Biophysics LAB: Principles of EEG-Group F | Computer Lab. |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Wednesday** | **22 January** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Pharmacotherapy in epilepsy | Dr. Filiz Onat |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Anatomy LAB: Vessels of the central nervous system - Group B | Anatomy Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Anatomy LAB: Vessels of the central nervous system - Group A | Anatomy Lab. |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Epidemiology and prevention of occupational neurological disorders | Dr. Ahmet Topuzoğlu |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Cerebrovascular disease | Dr. İpek Gürsoy Midi |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Cerebrovascular disease | Dr. İpek Gürsoy Midi |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Thursday** | **23 January** |  |
| 08:45-09:30 | ICP-3: CMPS |  |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | ICP-3: CMPS |  |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | ICP-3: CMPS |  |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | ICP-3: CMPS |  |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | ICP-3: CMPS |  |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | ICP-3: CMPS |  |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | ICP-3: CMPS |  |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 | ICP-3: CMPS |  |
| 17:30-17:35 | Discussion |  |
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| **Friday** | **24 January** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Management of pain | Dr. Beliz Bilgili |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Clinical pharmacology of opioids | Dr. Filiz Onat |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Pharmacotherapy of cognitive disorders | Dr. Zafer Gören |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 |  |  |
| 14:30-14:35 |  |  |
| 14:45-15:30 | Pathology of central nervous system infections | Dr. Rengin Asiye Ahıskalı |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Pathology of central nervous system infections | Dr. Rengin Asiye Ahıskalı |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Week – 6 (10 February - 14 February 2020)** | | |
| **Monday** | **10 February** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Dementia, Alzheimer's disease and related dementias | Dr. Emine Neşe Tuncer Elmacı |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Spinal reflexes | Dr. Özgür Kasımay Çakır |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Spinal reflexes | Dr. Özgür Kasımay Çakır |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Elective course |  |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Elective course |  |
| 15:30-15:35 | Discussion |  |
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| **Tuesday** | **11 February** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Tetanus | Dr. Nurver Ülger |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Cerebrospinal circulation | Dr. Alper Yıldırım |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Visual pathway | Dr. Ümit Süleyman Şehirli |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Pathology of cerebrovascular disease | Dr. Süheyla Bozkurt |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Pathology of cerebrovascular disease | Dr. Süheyla Bozkurt |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 |  |  |
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| **Wednesday** | **12 February** |  |
| 08:45-09:30 |  |  |
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| 10:30-10:35 |  |  |
| 10:45-11:30 |  |  |
| 11:30-11:35 |  |  |
| 11:45-12:30 | Introduction to pathology of muscle diseases and peripheral nerve | Dr. Rengin Asiye Ahıskalı |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Nervous system tumors | Dr. Süheyla Bozkurt |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Nervous system tumors | Dr. Süheyla Bozkurt |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 |  |  |
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| **Thursday** | **13 February** |  |
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| 12:30-12:35 |  |  |
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| 13:45-14:30 | Headache in the emergency room | Dr. Tülin Tanrıdağ |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Neurological emergencies | Dr. Tülin Tanrıdağ |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 |  |  |
| 16:30-16:35 |  |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Friday** | **14 February** |  |
| 08:45-09:30 | ICP-3: ACS-SRA3 |  |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | ICP-3: ACS-SRA3 |  |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | ICP-3: ACS-SRA3 |  |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | ICP-3: ACS-SRA3 |  |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | ICP-3: ACS-SRA3 |  |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | ICP-3: ACS-SRA3 |  |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | ICP-3: ACS-SRA3 |  |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 | ICP-3: ACS-SRA3 |  |
| 17:30-17:35 | Discussion |  |
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| **Week – 7 (17 February - 21 February 2020)** | | |
| **Monday** | **17 February** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Adult patient with paresthesia, arthralgia and lethargia | Dr. Mehmet Akman |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Pathology LAB: Pathology of central nervous system-Group A | Multidisciplinary Lab. |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Pathology LAB: Pathology of central nervous system-Group B | Multidisciplinary Lab. |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Pathology LAB: Pathology of central nervous system-Group C | Multidisciplinary Lab. |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Pathology LAB: Pathology of central nervous system-Group D | Multidisciplinary Lab. |
| 15:30-15:35 | Discussion |  |
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| **Tuesday** | **18 February** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 |  |  |
| 10:30-10:35 |  |  |
| 10:45-11:30 | Anesthetic premedication | Dr. Atila Karaalp |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Skeletal muscle relaxants | Dr. Atila Karaalp |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Anatomy LAB: Autonomic Nervous System (Group A) | Anatomy Lab. |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Anatomy LAB: Autonomic Nervous System (Group B) | Anatomy Lab. |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Introduction to neuroradiology | Dr. Gazanfer Ekinci |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 | Introduction to neuroradiology | Dr. Gazanfer Ekinci |
| 17:30-17:35 | Discussion |  |
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| **Wednesday** | **19 February** |  |
| 08:45-09:30 | Head trauma and increased intracranial pressure | Dr. Fatih Bayraklı |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | Motor neuron disorders | Dr. Barış İşak |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Spinal trauma and degenerative diseases | Dr. Ferhat Harman |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Bacterial and aseptic meningitis | Dr. Buket Ertürk Şengel |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Myopathies and myasthenia gravis | Dr. Pınar Kahraman Koytak |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Infectious diseases of the nervous system | Dr. Olcay Ünver |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Pharmacotherapy of Parkinson's disease | Dr. Rezzan Gülhan |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Thursday** | **20 February** |  |
| 08:45-09:30 |  |  |
| 09:30-09:35 |  |  |
| 09:45-10:30 | Introduction to pediatric neurology: From symptoms to signs | Dr. Dilşad Türkdoğan |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | Peripheral nerve disorders | Dr. Barış İşak |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | Peripheral nerve disorders | Dr. Barış İşak |
| 12:30-12:35 | Discussion |  |
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| 13:45-14:30 | Principles of CT and MRI | Dr. Günseli Ayşe Garip İnhan |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Rehabilitation of neurological disorders | Dr. N. Evrim Karadağ Saygı |
| 15:30-15:35 | Discussion |  |
| 15:45-16:30 | Rehabilitation of neurological disorders | Dr. N. Evrim Karadağ Saygı |
| 16:30-16:35 | Discussion |  |
| 16:45-17:30 |  |  |
| 17:30-17:35 |  |  |
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| **Friday** | **21 February** |  |
| 08:45-09:30 | ICP-3: ACS-SRA3 |  |
| 09:30-09:35 | Discussion |  |
| 09:45-10:30 | ICP-3: ACS-SRA3 |  |
| 10:30-10:35 | Discussion |  |
| 10:45-11:30 | ICP-3: ACS-SRA3 |  |
| 11:30-11:35 | Discussion |  |
| 11:45-12:30 | ICP-3: ACS-SRA3 |  |
| 12:30-12:35 | Discussion |  |
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| **Week – 8 (24 February - 28 February 2020)** | | |
| **Monday** | **24 February** |  |
| 08:45-09:30 | **PRACTICAL EXAM** |  |
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| 13:45-14:30 | Elective course |  |
| 14:30-14:35 | Discussion |  |
| 14:45-15:30 | Elective course |  |
| 15:30-15:35 | Discussion |  |
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| **Tuesday** | **25 February** |  |
| 08:45-09:30 | **PRACTICAL EXAM** |  |
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| **Wednesday** | **26 February** |  |
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| **Thursday** | **27 February** |  |
| 08:45-09:30 | **Y3C3 THEORETICAL EXAM** |  |
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| **Friday** | **28 February** |  |
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