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| **Course title** | **Code** | **Semester** | **Type of course** | **Course volume (Contact hours)** | **ECTS** |
| **Neurological and Psychiatric Disorders** | **MED2006**  | **IV** | **Mandatory** | **69** | **5** |
| **Faculty, the educational program and level of education** | * School of Medicine and Health Sciences
* Higher Medical Educational Program “Medicine”
* One cycle 6-year
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| **Learning Course Content** |
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| * **BIOCHEMISTRY** Biochemical aspect of nervous tissue

Hypothalamic, hypophysial hormones, melatonin: related disorders* **Cl. MICROBIOLOGY** "Slow" infectious diseases : conventional viruses; Unconventional agents (not viruses)- Prions.

Infections of Central Nervous Sustem; Enteroviruses (Poliovirus, Coxackie viruses, Echoviruses).Neisseria Meningitidis; Rabies;Role of Fungi in CNS Disease: Histoplasma capsulatum, Coccidioides Immitis/* **NEUROLOGY** Headache; Cerebrovascular diseases - Ischemia and Hemorrhage

Neurologic emergencies; Spinal cord disordersImpaired consciousness and coma; Cognitive disordersPolyneuropathies; Epilepsy; Movement disorders ; Neuro-muscular disorders ; Demyelinating diseases* **PATHOLOGY** Introduction to CNS, malformations, trauma; Cerebral edema, increase in intracranial pressure, hydrocephaly, herniation .

Infections, prion diseases; Demyelinating diseasesDegenerative diseases; Cerebrovascular diseases.Tumors of CNS; Diseases of peripheral nervous system; Pathology lab.* **PHARMACOLOGY** Introduction CNS pharmacology ; Pharmacotherapy of anxiety and sleep disorder

Drug treatment in Parkinson's Disease and in other movement disorders ; Antiepileptic therapyPharmacotherapy of cognitive disorders ; Clinical pharmacology of opioids ; Drugs of abuse; Anesthetic premedication and skeletal muscle relaxant.General anesthetics **and Local** anesthetics.; Pharmacotherapy of psychosis and lithium ; antidepressants; Anesthetic premedication and skeletal muscle relaxants* **RADIOLOGY** Neck and Back Disorders

Brain TumorsHead Trauma, Intracranial Hemorrhage, Hydrocephalus; Infection and Demyelinating Disease* **TOPOGRAPIC ANATOMY** Topography of Neurocranium : Cranial base (external and internal);Fronto-Prieto-temporal region ; Mastoid region

Topographic anatomy of neurocranium - Walls -Calvaria and lateral wall; temporal region and infratemporal region; Pterygopalatin fossaInternal structures of neurocrainum - Dura mater, Arachnoidea mater Pia mater, Dural venous sinusesEncephalon - Cerebellum, Rhomboid fossa; Ear region |

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| **Textbooks and Materials** |

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| * Pathology

Robbins Basic Pathology-Vinay Kumar; Abul K. Abbas; Elsevier; 10th. ed. 2018;Elsevier's Integrated Pathology- King C. Thomas; Mosby Elsevier; 2007;* Topographic Anatomy

Clinically Oriented Anatomy- Moore,Keith L; Wolters Kluwer; 9th.ed. 2023;* Medical Microbiology

Medical Microbiology- Murray, Patrick R; Rosenthal, Ken S; 9th ed. Elsevier Sounder; 2021.Case Studies in Infectious Disease- Peter Lydyard; Garland Science; 2010;* Pharmacology

Basic & Clinical Pharmacology- Katzung, Bertram G; Mc- Graw Hill Education. 15th. ed; 2021.Lippincott Illustrated Reviews: Pharmacology- Karen Whalen; Wolter Kluwer; South Asian ed. 2019;* Biochemistry

Biochemistry: Lippincott's illustrated Reviews- Ferrier Denice R; Wolters Kluwer; 7th ed. 2017.Color Atlas of Biochemistry-Jan Koolman; Klaus-Heinrich Roehm; Thieme; 3rd.ed. 2013;* Radiology

Grainger & Allison's diagnostic radiology: a textbook of medical imaging-AndyAdam;Churchill Livingstone; 6th ed; 2015Introduction to Radiologic imaging sciences &patient care-Arlene M.Adler;Richard R.Carlton; Elsevier Saunders; 6th ed; 2016;* Neurology

Adams and Victor's principles of Neurology- Allan H. Ropper;MArtin A.Samuels; Mc Graw Hill education Medical; 10th.ed. 2014;* Introduction to Pharmacology-Mary K.Asperheim;Justin Favaro; Elsevier Sounder. 12th.ed; 2012;
* Essentials of Medical Pharmacology-KD Tripathi; Jaypee Brothers Medical Publishers; 5th ed. 2003;
* Roitt’s Essential Immunology- Delves, Peter J; Martin,Seamus J; Wiley –Blackwell; 12th.ed. 2011;
* 4Medical Microbiology: A guide to microbial infections:Pathogenesis,Immunity,Laboratory Diagnosis and Control- David Greenwood;Mike Barer; Churchill Livingstone; 18th.ed. 2012;
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