

Course Title	Neuroradiology				
Course Code	MD470				
Course Type	Clinical Elective				
Level	1 st Cycle (MD)				
Year / Semester	4 th Year - 8 th Semester 5 th Year 9 th Semester / 10 th Semester				
Teacher's Name	TBA				
ECTS	3	Lectures / week	3 / 16 weeks	Laboratories / week	0 / 16 weeks
Course Purpose and Objectives	<p>Course's objectives are to transmit :</p> <p>Basic principles, sequences and protocols of brain and spine MRI imaging, CT and CTA imaging for CNS lesions</p> <p>Protection of patients and personnel at CT and MRI departments</p> <p>Cross-sectional anatomy of CNS-basic landmarks for students and non-Radiologist clinicians</p> <p>Diagnostic imaging workup and interpretation of CNS lesions with CT and MRI, including: vascular pathologies, tumors and tumor-like lesions, degenerative diseases, metabolic-toxic lesions, emergency Neuroradiology (trauma, SAH, hyper-acute ischemic stroke)</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Understand the basic sequences of MRI for CNS, as well as the principles and post-processing of multidetector CT and CTA • Indicate the appropriate diagnostic workup according to the clinical presentation of a CNS condition • Recognize basic signs on CT and MRI for emergency lesions and situations (stroke, SAH, dissections, CNS herniations, types of hydrocephalus etc) • Recall major differential diagnosis according to location and findings on CT and brain MRI studies 				
Prerequisites	None		Co-requisites	None	
Course Content	CNS and envelop tumors.- ischemic stroke (stages, location, imaging findings)- inflammatory pathologies- epilepsy workup-metabolic pathologies- emergency neuroradiology- vascular pathologies and degenerative diseases				
Teaching Methodology	Lectures, Practical exercises, Quizzes, Case Presentations, simulated cases				

Bibliography	<p>Pocket Atlas of Sectional Anatomy, Volume I: Head and Neck by T.B. Moeller and E. Reif, Publication ISBN:9783131255044</p> <p>Neuroradiology: The Requisites Authors: Rohini Nadgir David Yousem Hardcover ISBN: 9781455775682</p> <p>Osborn's Brain by Anne G. Osborn Gary Hedlund Karen L. Salzman Hardcover ISBN: 9780323477765</p>
Assessment	<p>Examinations: 70%</p> <p>Assignment/Lab 20%</p> <p>Class Participation: 10%</p>
Language	English