

Higher education institution: <i>Slovak Medical University in Bratislava</i>	
Faculty: <i>Faculty of Medicine</i>	
Course code: <i>GM 033</i>	Course title: <i>Radiology and nuclear medicine</i>
Type, extent and method of educational activity: <i>Number of hours per semester: Lectures: 14/1 hours per week Practices: 28/2 hours per week</i>	
Number of credits: <i>3 credits</i>	
Recommended semester/trimester: <i>7.th</i>	
Level of higher education study: <i>1. + 2.level</i>	
Prerequisite courses (subjects):-	
Requirements for completion of the course: <i>Successful completion – 100% participation in practice – oral examination and 100% participation in practice – oral examination A, B, C, D, E, FX Student workload is 33 hours.</i>	
Learning outcomes: <i>By completion of the course the student acquires basic knowledge about the diagnostics by means of artificial radionuclides, acquires theoretical knowledge on diagnostic and therapeutic methods of nuclear medicine, therapeutic methods in nuclear medicine. In radiology he deepens knowledge on theoretical and practical knowledge of special examination methods, contrast media, CT, MR, USG, use of radiology in other clinical fields.</i>	
Brief content of the course (syllabus): <i>Principles of nuclear medicine methods. Radiopharmaceuticals, The essentials of radionuclide scintigraphy. Scintigraphy planar and tomographic. SPECT, PET. Nuclear medicine therapeutic methods. Contrast media – new types, post application reactions, prevention. Seminar analysis and demonstration of practical methods. Consultations. Radiology 10/23 h Nuclear medicine 4/5 h</i>	
Recommended literature: <i>European Journal of Nuclear Medicine and Molecular Imaging Learning Radiology: Recognizing the Basics (With STUDENT CONSULT Online Access), 2e Paperback William Herring MD ISBN-13: 978-0323074445 ISBN-10: 0323074448 Edition: 2nd Robert A. Novelline, Lucy Frank Squire Squire's Fundamentals of Radiology, 5th edition Harvard Univ Pr; c1997. ISBN: 0674833392 Hardcover, 621 pages, Richard H. Daffner Clinical radiology : the essentials, 2nd ed. Baltimore : Williams and Wilkins, c1999. ISBN: 0683305174 William E. Brant, Clyde A. Helms Fundamentals of diagnostic radiology, 2nd ed. Baltimore : Williams and Wilkins, c1999. ISBN: 0683300938 Ďuriš, I. a spol.: Princípy internej medicíny, I. diel, 2001. Míková, V.: Nukleární medicína – Průřez vyšetřovacími metodami v odboru nukleární medicína. Galén, 2008. Vlček, P. a kol.: Praktická cvičení v nukleární medicíny. Univerzita Karlova, nakl. Karlinum, 2010. Votrubová, J. et al.: Klinické PET a PET/CT. Galén, 2009. Singh H Neutze J. A.: Radiology Fundamentals, Springer, 2012 ISBN 978-1-4614-0944-1 Herring W.: Learning Radiology Elsevier, 2016. ISBN 978-0-323-32807-4 Daffner R.H. Hartman M. S.: Clinical Radiology Wolter Kluwer/Lippincott, 2014. ISBN 978-1-4511-4250-1 Nekuda a spol.: Radiologie. Univerzita Karlova, nakl. Karlinum, 2010. ISBN 978-80-246-1819-7 Daneš, J. a kol.: Základy mamografie. Praha: X-Egem 2000. ISBN 80-71990620 Skovajsová, M.: Mamodiagnostika. Integrovaný přístup. Praha Galén, 2003 Weis, J., Bořuta, P.: Úvod do magnetickej rezonancie. GOEN Bratislava, 1998. ISBN 80-967953-8-4 Kausitz, J., Altanet, Č. a kol.: Onkológia. Veda, 2003 Blažek O. a spol.: Klinická rádiodiagnostika, Praha: Avicenum 1980 Ferko, A. Krajina A.: Arteriální aneuryzmata – Základy endovaskulární a chirurgické léčby</i>	

Ferda, J: CT angiografie. Galén, 2007. ISBN 80-7262-281-1
Eliáš, P., Žižka J.: Dopplerovská ultrasonografie.

Language requirements:-

Notes:

The course runs in Slovak and English language.

Course assessment

Assessed students in total: 0

A	B	C	D	E	FX
0%	0%	0%	0%	0%	0%

Lecturers:

doc. MUDr. Peter Bořuta, CSc.

doc. MUDr. Izabela Makaiová, CSc.

Date of last modification: 01.09.2014

Supervised by: *prof. MUDr. Peter Šimko, CSc.*