Course Information Sheet

Higher education institution: *Slovak Medical University in Bratislava*	
Faculty: *Faculty of Medicine*	
Course code: *GM 030*	**Course title:** *Radiology*
Type, extent and method of educational activity: *Number of hours per semester: 42* *Lectures: 14 h per semester/1 hous per week* *Practices:28 h per semester/2hours per week* (Total work load of the student: 75 h) Method of the education: full-time study (distance study)[1] Form of study: full-time	
Number of credits: *3* *credits*	
Recommended semester/trimester: *7th*	
Level of higher education study: 1st *+ 2nd level*	
Prerequisite courses (subjects):-	
Requirements for completion of the course: *Successful completion – 100% participation in practice – oral examination and 100% participation in practice – oral* ***examination*** *A, B, C, D, E, FX* *Student workloadis 33 hours.*	
Learning outcomes: *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 medcine, 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.* - *X-ray and other energies used for imaging* - *Radiation and protection* - *Contrast media* - *Conventional radiology – imaging* - *Ultrasound, CT an MRI – principles* - *Interventional radiology* - *Algorithm in imaging diagnostic*	
Brief content of the course (syllabus): *Principles of nuclear medicine methods. Radiopharmaceuticals, The essentials of radionuclide scintigraphy. Scintigrapy planar amd tomographic. SPECT, PET. Nuclear medicine therapeutical methods. Contrast media – new types, post application reactions, prevention.* *Seminar analysis and demonstration of practical methods.* *Consultations.* *Principles of Radiology.* - *Conventional roentgen* - *Ultrasound and doppler* - *CT* - *MRI* - *Interventional radiology* *Seminar analysis and demonstration of practical methods.* *Consultations.* *Radiology L 10/P 23 h* *Nuclear medicine L 4/P 5 h*	
Recommended literature: *European Journal of Nuclear Medicine a 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 Elsvier* *William Herring: Learning Radiology, Elsvier, 2016, ISBN 978-0-323- 32807-4*	

[1] *§ 108e ods. 2 zákona č.131/2002 Z.z. o vysokých školách*

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 a Wilkins, c1999. ISBN: 0683305174
William E. Brant, Clyde A. Helms Fundamentals of diagnostic radiology, 2nd ed. Baltimore : Williams a Wilkins, c1999. ISBN: 0683300938
Catherine Westbrook, Carolyn Kaut: , MRI in Practice, Blackwell Science1996, ISBN 0-632-03587-0
Ďuriš, I. a spol.: Princípy internej medicíny, I. diel, 2001.
Míková, V.: Nukleární medicína – Průrez 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.
Kausitz, J., Altanet, Č. a kol.: Onkológia. Veda, 2003

Language requirements:-

Notes:
The course runs in 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. Soňa Balogová, PhD.

Date of last modification: *01.09.2014*

Approved by: *person responsible for realization, development and ensuring of the study program quality*
prof. MUDr. Iveta Šimková, CSc.

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