



MASTER OF SCIENCE “IMAGING AND RADIOTHERAPY”

STUDY PROGRAMME GOALS

The study programme aims to equip students with the appropriate theoretical and practical professional knowledge trying to increase the quality of service in the sector of Imaging and Radiotherapy in accordance with internationally recognized standards. The program is focused on the most contemporary theoretical-practical knowledge, having part of it logically and didactically organized subjects, which lead to the gradual growth of the Imaging Technician from a general basic training to a genuine professional and scientific training. After these advanced studies it is claimed that the imaging specialist has achieved: a reorganization of imaging knowledge, innovative skills in the perception of Imaging and Radiotherapy, in research, clinically and in industry. The goals of the MSc program in "Imaging and Radiotherapy" are:

- to provide an understanding of imaging theory, techniques, analysis & applications
- to develop research planning & designing skills, incorporating imaging
- to enable interpretation & analysis of relevant imaging data
- to relate imaging research to clinical applications.

LEARNING OUTCOMES

Students who complete the full Master's (MSc) programme in "Imaging and Radiotherapy" will be able to:

- Describe the full range of imaging theory, techniques, analysis and applications.
- Discuss how imaging is used to investigate both normal and abnormal processes and functions (clinically & in research).
- Feel confident to undertake well designed, methodologically sound and practical research using imaging.
- Create a study design methodology.
- Be aware of health and safety regulations and legislation related to imaging.
- Translate from basic imaging research to the clinical arena.
- Be empowered to take a critical view of existing research particularly with an awareness of reproducibility and reliability of techniques, sources of bias in research and clinically
- Demonstrate innovation before discussing and presenting their work to their peers
- Develop the tools to initiate and execute research autonomously and produce publishable research summaries
- Develop good practice in communication and collaboration using modern online communication tools
- Acquire imaging knowledge to engage with new developments.



MASTER OF SCIENCE IN "IMAGING AND RADIOTHERAPY" - 120 ECTS				
No.	Year	Term	Course Name	ECTS
GENERAL KNOWLEDGE AND METHODOLOGICAL PREPARATION				
A - GENERAL COURSES/5-10% / 12 ECTS				
1	I	1	Advanced Research Methods	6
2	I	2	Quantitative Research Methods	6
PREPARATION FOR SCIENTIFIC DISCIPLINE				
B - SPECIALIZATION COURSES/50-60%/60 ECTS				
1	I	1	Imaging Diagnosis	6
2	I	1	Medical Techniques in Imaging and Radiotherapy	6
3	I	2	Nuclear Medicine: Techniques and Equipment	6
4	I	1	Diagnostic Equipment in Imaging and Radiology	6
5	I	2	Radiation Protection	6
6	I	2	Neuroradiology	6
7	II	1	Internal Diseases	6
8	I	2	Oncology	6
9	II	1	Laboratory Medicine	6
10	II	1	Medical Emergencies and Resuscitation Anesthesia	6
SUB-DISCIPLINE AND ELECTIVE COURSES				
C - INTERDISCIPLINARY AND INTEGRATIVE COURSES / 12-20% / 18 ECTS				
1	II	1	Public Health	6
2	II	2	Health Management	6
3	I	1	Clinical Pharmacology	6
4	I	1	Family Medicine	6
5	II	2	Surgery	6
D - ADDITIONAL COURSES/ 10% / 12 ECTS				
1	II	2	Professional Practice	12
E - FINAL OBLIGATIONS /10-15%/18 ECTS				
1	II	1-2	Diploma Thesis	18