**SYLLABUS**

1. **Programme Details**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** | | | | | | | |
| **1.2.** | **FACULTY : MEDICINE / DEPARTMENT: SURGERY II** | | | | | | | |
| **1.3.** | **DISCIPLINE:** RADIOLOGY | | | | | | | |
| **1.4.** | **FIELD of STUDY:HEALTH** | | | | | | | |
| **1.5.** | **STUDY CYCLE: BACHELOR** | | | | | | | |
| **1.6.** | **PROGRAMME of STUDY: English** | | | | | | | |
| 1. **Discipline Details** | | | | | | | | |
| **2.1.** | **Name of the Discipline:** RADIOLOGY | | | | | | | |
| **2.2.** | **Teaching staff in charge with lectures:** LECTURER DR. IRINA JARI, LECTURER DR. VASILE FOTEA | | | | | | | |
| **2.3.** | **Teaching staff in charge with seminar activities:** LECTURER DR. IRINA JARI, LECTURER DR. VASILE FOTEA, UNIVERSITY ASISTANT DRD. MIHAI FLORIN, UNIVERSITY ASISTANT DRD. MARIUS SAVIN, UNIVERSITY ASISTANT DRD. BOGDAN CUCUTEANU | | | | | | | |
| **2.4. Year** | | **IV** | **2.5. Semester** | **I/II** | **2.6. Type of evaluation** | E | **2.7. Discipline regimen** | MANDATORY |

1. **Overall Time Estimates (hours/semester of didactic activity)**

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| * 1. **Number of hours per week** | 4 | **Of which: 3.2. lectures** | | 2 | * 1. **seminar/ laboratory** | 2 |
| * 1. **Total hours in the curriculum** | 52 | **Of which: 3.5. lectures** | | 26 | **3.6. seminar/ laboratory** | 26 |
| **Distribution of time** |  |  | |  |  | Hours |
| **Study time using coursebook materials, bibliography and notes** | | | | | | 25 |
| **Further study time in the libray, online and in the field** | | | | | | 8 |
| **Preparation time for seminars / laboratories, homework, reports, portfolios and essays** | | | | | | 20 |
| **Tutoring** | | | | | |  |
| **Examinations** | | | | | | 10 |
| **Other activities** | | | | | |  |
| **3.7. Total hours of individual study** | | |  | | | 63 |
| **3.8. Total hours / semester** | | |  | | | 115 |
| **3.9. Number of credits** | | |  | | | 5 |

1. **Prerequisites (where applicable)**

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| **4.1. curriculum** | IT IS NOT THE CASE |
| **4.2. competences** | IT IS NOT THE CASE |

1. **Conditions (where applicable)**

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| **5.1. for lecture delivery** | IT IS NOT THE CASE |
| **5.2. for seminar / laboratory delivery** | IT IS NOT THE CASE |

1. **Specific Competences Acquired**

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| **Professional Competences (knowledge and skills)** | Imaging methods – principles and applications; characteristic radiological findings for diseases of the chest, cardio-vascular system, digestive tract, urinary tract, musculoskeletal system; data concerning interventional procedures and contrast media used in radiology; the role of imaging techniques in neuroradiology, ear-nose-throat, endocrinology, gynecology.  Ability to detect abnormalities on radiographs, to recognize the various diagnostic possibilities for each finding and to select the best of these as the most likely diagnosis;  Ability to edit a radiological report, to choose the most appropriate imaging protocol. |
| **Transversal Competences (roles, personal and professional development)** | Diagnosis in cardio-vascular, pulmonary, digestive, uro-genital, musculo-scheletal pathology. |

1. **Obiectives of the Discipline (related to the acquired competences)**

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| **7.1. General Obiective** | Diagnosis in cardio-vascular, pulmonary, digestive, uro-genital, musculo-scheletal pathology. |
| **7.2. Specific Obiectives** | To assess the correct imaging diagnosis, that will help to achieve the appropriate treatment |

1. **Contents**

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| **8.1. Lecture** | | **Teaching methods** | **Comments** |
| Introduction,imaging methods: principles and applications | | Power point presentation | 2 hours |
| Imaging of the lung diseases | | Power point presentation | 4 hours |
| Imaging of the pleural diseases | | Power point presentation | 2 hours |
| Imaging of the mediastinal diseases | | Power point presentation | 2 hours |
| Imaging of the cardiovascular system | | Power point presentation | 4 hours |
| Imaging of the esophagus diseases | | Power point presentation | 2 hours |
| Imaging of the stomac diseases | | Power point presentation | 2 hours |
| Imaging of the bowell diseases | | Power point presentation | 2 hours |
| Imaging of the liver, pancreas, spleen diseases | | Power point presentation | 2 hours |
| Imaging of the urinary tract | | Power point presentation | 2 hours |
| Imaging of the musculoskeletal system | | Power point presentation | 2 hours |
| **Bibliography**  D.Negru. Diagnostic Radiology an Imaging for Medical Students. Ed. Cantes, 2002 | | | |
| **8.2. Seminar / Laboratory** | **Teaching methods** | | **Comments** |
| **Introduction,imaging methods: principles and applications** | **Power point presentation** | | **2 hours** |
| **Imaging of the lung diseases** | **Power point presentation** | | **4 hours** |
| **Imaging of the pleural diseases** | **Power point presentation** | | **2 hours** |
| **Imaging of the mediastinal diseases** | **Power point presentation** | | **2 hours** |
| **Imaging of the cardiovascular system** | **Power point presentation** | | **4 hours** |
| **Imaging of the esophagus diseases** | **Power point presentation** | | **2 hours** |
| **Imaging of the stomac diseases** | **Power point presentation** | | **2 hours** |
| **Imaging of the bowell diseases** | **Power point presentation** | | **2 hours** |
| **Imaging of the liver, pancreas, spleen diseases** | **Power point presentation** | | **2 hours** |
| **Imaging of the urinary tract** | **Power point presentation** | | **2 hours** |
| **Imaging of the musculoskeletal system** | **Power point presentation** | | **2 hours** |
| **Bibliography**  D. Negru (ed.) Radiology – Imaging for medical students - practical guide, Ed. Cantes, 2003 | | | |

1. **Correlations between the contents of the discipline and the expectations of the epistemic community, of profesional associations and of employers in the field**

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| Knowledge and skills are set as teaching objectives and specified as such in analytical programs reviewed annually. After analysis within the discipline, these are discussed and approved within the Curriculum Bureau, in the sense of harmonization with other disciplines. Throughout this process, the correspondence between content and the expectations of the academic community, community representatives, professional associations and employers is systematically assessed, as far as possible. As a primary goal, the discipline aims to provide students with the optimal prerequisites for the next years of study in the Bachelor of Medicine program, in order to successfully hire, immediately after graduation, residency programs in Romania and other EU countries. |

1. **Evaluation**

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| **Type of activity** | **10.1. Evaluation criteria:** | **10.2. Methods of evaluation** | **10.3. Percentage of final grade** |
| **10.4. Lecture** | Grade for multiple choice test | standardized multiple choice test | 50% |
| **10.5. Seminar / Laboratory** | Average grade of ongoing examinations | ongoing evaluation | 10% |
| Grade for practical examination | practical exam | 40% |
| **Minimum standard of performance: at least grade 5 to pass the discipline** | | | |

**Date:01.10.2019 Signiture of Didactic Co-ordinator**

**PROF. DRAGOS NEGRU**

**Signiture of Department Director PROF. DAN MIHAIL COBZEANU**