**ACADEMIC DISCIPLINE OVERVIEW**

1. **Program data**

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| 1.1. Higher education institution | Grigore T. Popa University of Medicine and Pharmacy Iasi |
| 1.2. Faculty | Medical Bioengineering |
| 1.3. Department | Biomedical Sciences |
| 1.4. Field of study | Health |
| 1.5. The cycle of studies | Bachelor |
| 1.6. Study program / qualification | Balneo-physiokinetotherapy and rehabilitation – english language / Physiokinetotherapist |

**2. Discipline data**

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| 2.1. Name of the discipline / Code | | | | **Medical Semiology and Internal Medicine** | | **RE1207** |
| 2.2. Teaching staff in charge with lectures | | | | **Associate Professor Cristina Gavrilescu, MD, PhD** | | |
| 2.3. Teaching staff in charge with practical activities | | | | **Associate Professor Cristina Gavrilescu, MD, PhD** | | |
| 2.4. Year of study | **II** | 2.5. Semester | **1** | 2.6. The type of assessment | **Exam, E1** | |
| 2.7. Discipline type | | **Mandatory** | | **Domain discipline** | | |

**3. Estimated total time (hours/semester of didactic activity)**

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| 3.1. Number of hours / week: | | 3.2. Courses number of hours / week | | 3.3. Seminars / practical classes  number of hours / week | | | |
| Semester 1 | **2** | **1** | | **1** | | | |
| Semester 2 |  |  | |  | | | |
| 3.4. Total number of learning hours: | **28** | 3.5. Of which: Courses | **14** | 3.6. Of which: Seminars / practical classes: | | | **14** |
| 3.7. Distribution of individual study time: | | | | | Hours sem. 1 | Hours sem. 2 | |
| Study time using course book materials, bibliography and hand notes | | | | | 8 |  | |
| Supplementary documentation in the library, using specialised platforms via internet and by field work | | | | | 4 |  | |
| Preparation time for seminars / practical classes, study themes, reviews, portfolio and essays | | | | | 4 |  | |
| Tutorship | | | | | 2 |  | |
| Examinations | | | | | 3 |  | |
| Other activities | | | | | 6 |  | |
| Total hours of individual study (*without examinations*) | | | | | **22** |  | |
| 3.8. Total hours per semester | | | | | **50** |  | |
| 3.9. Number of credits | | | | | **2** |  | |

**4. Preconditions (where applicable)**

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| 4.1. of curriculum | Anatomy, Biochemistry, Physiology, Physiopathology |
| 4.2. of competences | Knowledge of the principles of structure and function of the living matter on a molecular, cellular, tissue and organ level and the associated diseases determined by various factors and conditions |

5. **Conditions (where applicable)**

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| 5.1. for lectures | Video logistical support |
| 5.2. for seminars / practical classes | Protective clothing, masque |

**6. Specific competences acquired**

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| **Professional competencies** | **C 1.1** | Description of concepts, theories and fundamental notions of human body physiological and pathological mechanism, identification of clinical signs and symptoms, identification on methods and techniques of kinetotherapy. Basis of approaching the patient |
| **C 1.2** | Hypothesis generation and key concepts operation aiming to explain syndromes and /or diseases |

7**.** **Objectives of the study discipline (according to the grid of specific competences acquired)**

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| 7.1. General objective | * Accumulation of knowledge concerning diagnostic and treatment concepts of medical diseases, along with scientific, legal and ethical reference points in the medical practice * Internalization and interpretation of diagnosctic and therapy information in internal medicine with the purpose of argumenting, decision-taking, and practical implementation of principles and ideas from this domain and team work. |
| 7.2. Specific objectives | - Knowledge about diagnostic and treatment of medical conditions  - Identification of main symptoms, signs and syndromes in medical pathology,  - Investigations needed for diagnosis and treatment;  - Recommendations according to the stage of disease and its associated diseases. |

**8. Contents**

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| **8.1. Lectures** | | **Teaching methods** | **Observations** |
| 1 | Introductive notions about symptoms, signs, syndromes, clinical examination and paraclinical testing for diagnostic and therapy in internal medicine. | Interactive lecturing, discussions, explanations | 2 hours |
| 2 | General approach of a pacient with pulmonary disease. Principles of diagnostic, complications and treatment of bronchial asthma, chronic obstructive pulmonary disease, pneumonia (including Covid-19 pneumonia) | Interactive lecturing, discussions, explanations | 2 hours |
| 3 | Principles of diagnostic, complications and treatment of pulmonary abcess, pleurisy, pulmonary fibrosis (including postCovid infection) | Interactive lecturing, discussions, explanations | 2 hours |
| 4 | General approach of a pacient with cardiovascular disease. Principles of diagnostic, complications and treatment of hypertension and peripheral artery disease | Interactive lecturing, discussions, explanations | 2 hours |
| 5 | Principles of diagnostic and treatment of ischemic heart disease and arrhythmias. | Interactive lecturing, discussions, explanations | 2 hours |
| 6 | Principles of diagnostic and treatment of trombophlebitis and heart failure. | Interactive lecturing, discussions, explanations | 2 hours |
| 7 | Principles of diagnostic and treatment in osteoarticular diseases and diabetes mellitus | Interactive lecturing, discussions, explanations | 2 hours |

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| **8.2. Practical activities - practical class** | | **Teaching methods** | **Observations** |
| 1 | Introductive notions about symptoms, signs, syndromes, clinical examination şi paraclinical testing for diagnostic and therapy in internal medicine- case studies. | Understanding the protection standard of work. Patients prezentations with the main symptoms, signs şi syndromes in internal medicine. | 2 hours |
| 2 | General approach of a pacient with pulmonary disease. Diagnostic and therapeutic procedures in pulmonary diseases. Diagnostic and treatament of bronchial asthma, chronic obstructive pulmonary disease, pneumonia (eg Covid-19 pneumonia) | Presentation of the diagnostic and complications on patients with pulmonary disease, based on clinical examination and paraclinical testing, along with proper treatment prescription considering disease stage and associated medical conditions.  Presenting a case with with bronchial asthma, COPD, pneumonia (eg Covid-19 pneumonia) | 2 hours |
| 3 | Principles of diagnostic, complications and treatment of pulmonary abcess, pleurisy, pulmonary fibrosis (including posCovid infection | Presenting the diagnostic and complications in patients with respiratory diseases. Treatment considering disease stage and associated medical conditions. Presenting a patient with pulmonary abcess, pleurisy, pulmonary fibrosis (postCovid infection) | 2 hours |
| 4 | General approach of a pacient with cardiovascular disease. Principles of diagnostic, complications and treatment of hypertension and peripheral artery disease | Presenting the diagnostic, complications and treatment in hypertension and peripheral artery disease | 2 hours |
| 5 | Diagnostic and treatment of ischemic heart disease and arrhythmias. | Presenting the diagnostic, complications and treatment in stable and unstable angina, myocardial infraction and arrhythmias. Presenting a patient with stable angina. Presenting a patient with atrial fibrillation. | 2 hours |
| 6 | Principles of diagnostic and treatment of trombophlebitis and heart failure. | Presenting the diagnostic, complications and treatment in trpmbophlebitis and heart failure. Examining a patient with trombophlebitis. Examining a patient with heart failure. | 2 hours |
| 7 | Principles of diagnostic and treatment in osteoarticular diseases and in diabetes mellitus. | Presenting the diagnostic, disease stage and complications in patients with osteoarticular diseases and diabetes mellitus. Examining a patient with diabetes mellitus | 2 hours |

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| **8.3. Bibliography:** |
| ***Mandatory:*** |
| 1. Course and practical works notes posted on e-Learning platform 2. Fauci AS, Braunwald E, Kasper D. Harrison’s principles of Internal Medicine, pocket edition; 19Th ed. 2020 3. Cristina-Maria Gavrilescu, Paloma Manea, Rodica Ghiuru, Dragos Munteanu: Basics of semiology in internal medicine; edit ,,Gr.T.Popa” UMF Iasi 2014. ISBN 978-606-544-250-4. |
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| ***Elective:*** |
| 1. Paloma Manea, Cristina-Maria Gavrilescu, Irina Jari, Manuela Ursaru, Dragos Negru, Rodica Ghiuru, Mona Scutariu: Basics in medical semiology and internal medicine; edit ,,Gr.T.Popa” UMF Iasi 2016 ISBN 978-606-544-367-9. |

**9. *Correlation of the discipline contents with the expectations of the epistemic community, professional associations, and representative employers from the afferent program field***

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| Knowledge and abilities are established as didactic objectives and specified as such in the analytic programs that are revised yearly. After their analysis by the study discipline staff, these are discussed and approved in the Curricular Committee, towards curricular harmonization among the various study disciplines. Along this entire process systematic evaluation is performed, directly if possible, regarding the correspondence of the contents to the expectations of the academic community and of the representatives of the social community, professional associations, and employers. |

**10. Evaluation**

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| Type of activity | Assessment criteria | Evaluation methods | Contribution to the final grade |
| Lectures | Acquiring theoretical notions and presented in the course | Written exam.  MCQ Examination | 80 % |
| Practical activities | Activities carried out in laboratory and conducted quality essays. | Colloquium practical activity | Admitted/ Rejected |
| Individual study | Preparation time for seminars / practical classes, study themes, reviews, portfolio and essays.  Study time using coursebook materials, bibliography and hand notes, documentation in the library, using specialised platforms via internet and by field work. | Tests during the semester | 20 % |
| Minimal performance standard:   * Ability to identify main symptoms, signs, investigate, and treat bronchial asthma, COPD, pulmonary fibrosis * Ability to identify main symptoms, signs, to investigate, and treat arterial hypertension, ischemic heart disease, heart failure. | | | |

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| Date  11.09.2024 | Holder of course / signature,  Associate Professor Cristina Gavrilescu, MD, PhD | | | Holder of practical activities / signature,  Associate Professor Cristina Gavrilescu, MD, PhD |
| Date of approval in the Department Council/Teaching Council, | | | | |
| 19.09.2024 | |  | Department director / signature, | |
|  | |  | Associate Professor Daniela-Viorelia Matei, MD, PhD | |