**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 | | | | **Infectious Diseases.** | | **RE1312** |
| 2.2. Teaching staff in charge with lectures | | | | **Lecturer Andrei Vâță, MD, PhD** | | |
| 2.3. Teaching staff in charge with practical activities | | | | **Lecturer Andrei Vâță, MD, PhD** | | |
| 2.4. Year of study | **III** | 2.5. Semester | **2** | 2.6. The type of assessment | **C2** | |
| 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 |  |  | |  | | | |
| Semester 2 | **1** | **0.5** | | **0.5** | | | |
| 3.4. Total number of learning hours: | **14** | 3.5. Of which: Courses | **7** | 3.6. Of which: Seminars / practical classes: | | | **7** |
| 3.7. Distribution of individual study time: | | | | | Hours sem. 1 | Hours sem. 2 | |
| Study time using course book materials, bibliography and hand notes | | | | |  | 15 | |
| Supplementary documentation in the library, using specialised platforms via internet and by field work | | | | |  | 16 | |
| Preparation time for seminars / practical classes, study themes, reviews, portfolio and essays | | | | |  | 5 | |
| Tutorship | | | | |  | 2 | |
| Examinations | | | | |  | 2 | |
| Other activities | | | | |  |  | |
| Total hours of individual study (*without examinations*) | | | | |  | **36** | |
| 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 | Basic knowledge of Microbiology, Cell Biology |
| 4.2. of competences | Understanding the general principles of microbiology, cell biology |

5. **Conditions (where applicable)**

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| 5.1. for lectures | Logistics/video support |
| 5.2. for seminars / practical classes | Optical microscopes, laboratory glassware |

**6. Specific competences acquired**

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| **Professional competencies** | **C 1.1** | Description of concepts, theories and fundamental notions of molecular mechanisms and understanding of the concepts through which living organisms interact with the human biosystem |
| **C 1.2** | The formulation of hypotheses and the operationalization of key concepts in order to understand the principles of the production of infectious diseases |

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

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| 7.1. General objective | Acquiring the knowledge to allow correct diagnosis, treatment and prophylaxis in the main infectious diseases. |
| 7.2. Specific objectives | Acquiring the knowledge to allow: the correct diagnosis of the main communicable infectious diseases: performing the epidemiological anamnesis; recognition of specific clinical signs; Knowledge of the main measures to prevent the transmission of infectious diseases. The correct assessment of the epidemiological risk and the observance of the epidemiological norms regarding the circuit of patients in the balneo-physiokinetics therapy rooms |

**8. Contents**

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| **8.1. Lectures** | | **Teaching methods** | **Observations** |
| 1 | General notions of epidemiology. The structure of the epidemiological process. The epidemiological process: the determining factors, the dynamizing / favoring factors and the forms of manifestation. The concept of prevention: definition, categories, working methods.Epidemiological surveillance. | Ppt course support | 2 hours |
| 2 | Etiology of infectious diseases. Classification and characteristics of pathogens involved in the main infectious diseases: bacteria, viruses, fungi, parasites, non-conventional infectious agents (prions). Diagnosis of infectious diseases - epidemiological, clinical and laboratory diagnosis (hematological, biochemical, bacteriological, virological, parasitological, mycological, serological. | Ppt course support | 2 hours |
| 3 | Acute respiratory infections.  Influenza etiopathogenesis, clinic, laboratory diagnosis, prognosis, treatment, complications, prophylaxis.  Infectious diseases with the digestive entrance. Dysentery. Food poisoning. Acute diarrheal disease: etiology, pathogenesis, dehydration syndrome, treatment. Infections with hepatitis viruses. Viral hepatitis A, B, D, E | Ppt course support | 3 hours |

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| **8.2. Practical activities - practical class** | | **Teaching methods** | **Observations** |
| 1 | General study methods in epidemiology.  The study of epidemiological investigations. Visiting the Infectious Diseases sector.Presentation of occupational health and safety rules during the Infectious Diseases internship.  Clinical and paraclinical evaluation of the patient with the infectious disease.Supervision of patients: temperature, pulse, breathing, blood pressure, diuresis, stool, urine, sputum. | Interactive discussion | 2 hours |
| 2 | Presentation of non-specific measures to prevent the transmission of infectious diseases by air. Presentations of clinical cases at the patient's bedside in respiratory pathology | Direct participation of students in the anamnesis and clinical examination of patients, | 2 hours |
| 3 | Presentation of non-specific measures to prevent the transmission of infectious diseases through the digestive tract. Presentations of clinical cases at the patient's bedside from digestive pathology  Recognition of clinical and laboratory signs in acute viral hepatitis. Presentation of non-specific measures to prevent liver transmission. Vaccination | 3 hours |

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| **8.3. Bibliography:** |
| ***Mandatory:*** |
| 1. Cepoi V., Azoicăi D. Ghid de management al infecțiilor asociate asistenței medicale*,* ediția a II-a, București: Editura SC Global Management Arte, 2017. 2. Dorobat C, Miftode E, Luca M, Leca D, Manciuc C., Mihnea Hurmuzache. Boli infectioase. Curs pentru studenti si studii postuniversitare. Editura Gr.T.Popa Iasi, 2012. 3. Vata Andrei, Luca C, Dorobat C.- Boli tropicale. Note de curs. Ed. Gr.T.Popa Iasi, 2012 |
| ***Elective:*** |
| 1. Douglas, Bennet, Mandell. Principles in Infectious Diseases . Ed Livingstone 2009, 2012. 2. Azoicăi Doina., Boiculese L.V., Pisică-Donose G. Noțiuni de metodologie epidemiologică şi statistică medicală, Iași: Editura EditDAN, 2001. |

**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:  • knowledge of the main pathogens involved in the main infectious diseases | | | |

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| Date | Holder of course / signature, | Holder of practical activities / signature, |
| 11. 09.2023 | Lecturer Andrei Vâță, MD, PhD | Lecturer Andrei Vâță, MD, PhD |

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| Date of approval in the Department Council/Teaching Council, | | |
| 14.09.2023 |  | Department director / signature, |
|  |  | Conf. Univ. Dr. Daniela-Viorelia Matei |