**ACADEMIC DISCIPLINE OVERVIEW**

1. **Program Data**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** |
| **1.2.** | **FACULTY OF MEDICAL BIOENGINEERING** |
| **1.3.** | **PROGRAMME:** Physio-kinetotherapy and rehabilitation |
| **1.4.** | **STUDY FIELD:** Health |
| **1.5.** | **STUDY CYCLE**: UNDERGRADUATE |
| **1.6.** | **STUDY PROGRAMME:** INENGLISH |

1. **Subject data**

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| **2.1. Name of discipline** | | | **HYGIENE AND EPIDEMIOLOGY / R 1114** | | |
| **2.2. Module leader** | | | **Associate Professor Rotariu Mariana** | | |
| **2.3. Seminar leader** | | | Asist.phd. Avram Iustina | | |
| **2.4. Study year** | **1** | **2.5. Semester** | **2** | **2.6. Evaluation method** | **Exam** |
| **2.7. Discipline status** | | **Mandatory** | | | |

1. **Total estimated duration (hours/semester)**

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| **3.1. Hours/week** | **1.5** | **3.2. Courses**  **number of hours / week** | **1** | **3.3. Seminary / laboratory** | **0.5** | |
| **3.4. Total hours** | **21** | **3.5. Courses** | **14** | **3.6. Seminary / laboratory** | **7** | |
| **3.7. Distribution of the available time** | | | | | **Hours** |
| **Study based on the manual, lecture support, bibliography and hand notes** | | | | | **10** |
| **Supplementary documentation in the library, using specialized platforms via internet and by field work** | | | | | **6** |
| **Preparation for seminars / practical classes, study themes, reviews, portfolio, and essays** | | | | | **4** |
| **Tutorship** | | | | | **2** |
| **Examinations** | | | | | **2** |
| **Other activities** | | | | | **9** |
| **3.8. Total hours of individual study** | | | | | **29** |
| **3.9. Total hours pes semester** | | | | | **50** |
| **3.10. Number of credits** | | | | | **2** |

1. **Prerequisites (as needed)**

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| **4.1. Curriculum** | **-** |
| **4.2. Skills** | **-** |

1. **Conditions (as needed)**

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| **5.1. Lectures** | Video logistical support |
| **5.2. Seminars/Laboratories** | Students will have the appropriate equipment |

1. **Acquired skills**

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| Professional competences  (expressed as knowledge and abilities) | C1.1 Description of concepts, theories and fundamental notions of physiological and pathological mechanisms of the body, identification of symptoms and clinical signs, identification of physiotherapy methods and techniques.  C1.2 Formulation of hypotheses and operationalization of key  concepts to explain  syndromes and / or diseases  C1.3 Awareness of the importance and impact of preventive medicine on the human health status. The ability to plan the use of resources and materials to effectively manage time budget. |
| Transverse competences  (of role, of professional development, personal) | CT1. Identify objectives to be achieved, the resources available,  the conditions for completion of their work flow, working time,  deadlines and related risks |

1. **Course objectives (as in the cumulated competences chart)**

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| **7.1. General objective**  **of the discipline** | Knowledge of the principles and fundamentals of  hygiene / environmental health and epidemiology. |
| **7.2. Specific objectives** | Knowledge of general notions of epidemiology,  epidemiological process, prevention and health education.  Knowledge of natural and artificial environmental factors and  the ways in which they affect health of the individual and the community. |

1. **Contents**

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| **8.1. Course** | Teaching methods | Mentions |
| 1. Introduction to Epidemiology.   The structure of the epidemiological process. Epidemiological process: determinants, driving-favoring factors and forms of manifestation.   1. The concept of prevention: definition, categories, methods.   Diseases follow-up and combating. Health education: concepts and methods of implementation.   1. Epidemiological surveillance. Epidemiologic and prevention process in the main enteral and parenteral transmitted diseases. 2. Epidemiologic and prevention process in infections associated with health care. 3. The energy needs of the body. Food trophines with energy supply role (proteins, lipids, carbohydrates). Fat soluble and water soluble vitamins. Mineral macro elements and trace elements. Food groups: their nutritional value, daily demand   and the effects of inadequate consumption.   1. Air role in maintaining health.   Biological nature air pollution (air contamination) and physical pollution (ionizing and non-ionizing radiation) in relation to health status.The role of water in maintaining health status. Drinking water supplies. Using mineral water in balneo-fiziokinetotherapy and recovery procedures. Central public water supply.   1. Fundamental aspects of children and teenagers’ development.   Hygiene of housing in a habitat type and in special locations  (hospitals, gyms, recovery rooms). | PowerPoint presentations, interactive courses, video presentations | 2hours  2 hours  2 hours  2hours  2 hours  2 hours  2 hours |
| Bibliography   1. Azoicăi D. *Ancheta epidemiologică în practica medicală*, Iaşi: Editura Polirom,1998. 2. Azoicăi D., Boiculese L., Pisică-Donose G. *Noțiuni de metodologie epidemiologică şi statistică medicală*, Iași: Editura EditDAN, 2001. 3. Gavăt Viorica, Petrariu F.D., Gavăt C.C., Azoicăi Doina. *Factorii de risc din mediu şi sănătatea*,   Iași: Editura EditDAN, 2001.   1. Gavăt Viorica, Albu Adriana, Petrariu F.D. *Alimentația şi mediul de viaţă în relaţie cu dezvoltarea copiilor şi a tinerilor,* Iaşi: Editura “Gr. T. Popa”, 2006. 2. Gavăt Viorica *Sănătatea mediului şi implicațiile sale în medicină* Iaşi: Editura “Gr. T. Popa”, 2007. 3. Ivan A, Azoicăi Doina, Filimon Raluca. *Epidemiologie generală și specială,*   Iași: EdituraPolirom, 1998. | | |

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| **8.2. Laboratory** |  |  |
| 1. General methods of study in epidemiology The study of epidemiological investigations. Practical notions of vaccinology. 2. The methodology of the food investigation. 3. Methodology for determining contamination of air,   equipment and medical devices, inert surfaces and hands.   1. Practical ways to prevent nosocomial infections. 2. Diagnosis of potable water.   Physico-chemical and microbiological potability of water.   1. Diagnosis of physical and neuropshychomotric development   in children and teen-agers. | Individual  and team work.  Interactive discussions. | 2 hours  1 hours  1 hours  1 hour  1 hours  1hours |
| Bibliography   1. Azoicăi D. *Ancheta epidemiologică în practica medicală*, Iaşi: Editura Polirom,1998. 2. Azoicăi D., Boiculese L., Pisică-Donose G. *Noțiuni de metodologie epidemiologică şi statistică medicală*, Iași: Editura EditDAN, 2001. 3. Gavăt Viorica, Petrariu F.D., Gavăt C.C., Azoicăi Doina. *Factorii de risc din mediu şi sănătatea*,   Iași: Editura EditDAN, 2001.   1. Gavăt Viorica, Albu Adriana, Petrariu F.D. *Alimentația şi mediul de viaţă în relaţie cu dezvoltarea copiilor şi a tinerilor,* Iaşi: Editura “Gr. T. Popa”, 2006. 2. Gavăt Viorica *Sănătatea mediului şi implicațiile sale în medicină* Iaşi: Editura “Gr. T. Popa”, 2007. 3. Ivan A, Azoicăi Doina, Filimon Raluca. *Epidemiologie generală și specială,*   Iași: EdituraPolirom, 1998. | | |

1. **Cross-linking the discipline contents with expectations of the epistemic community, professional associations and major employers**.

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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. |

1. **Evaluation**

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| 10.1. Activity type | 10.2. Evaluation criteria | 10.3. Evaluation method | Percentage  of the final grade |
| 10.4. Lecture | Grade for written test | Standardized written test  (4 subjects) | 50% |
| 10.5 Seminary/  laboratory | Average grade of ongoing examinations  Grade for  practical examination | Ongoing evaluation (course attendance 10%, student behavior 10%, class participation 15%,  knowledge ongoing evaluation 65%)  Practical exam (4 practical subjects) | 10%  40% |
| 10.6. Minimum standard of performance: at least grade 5 to every section to pass the discipline | | | |

**Fulfilling date, Module Leader Signature,**

24.09.2019 Associate Professor Rotariu Mariana

**Department approval date, Head of the Department Signature,**

30.09.2019

Lecturer Matei Daniela Viorelia, Ph.D.