**SYLLABUS**

1. **Programme Details**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** |
| **1.2.**  | **FACULTY : MEDICINE / DEPARTMENT: PREVENTIVE MEDICINE AND INTERDISCIPLINARITY** |
| **1.3.** | **DISCIPLINE: EPIDEMIOLOGY** |
| **1.4.**  | **FIELD of STUDY: HEALTH** |
| **1.5.** | **STUDY CYCLE: BACHELOR**  |
| **1.6.** | **PROGRAMME of STUDY: English**  |
| 1. **Discipline Details**
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| **2.1.** | **Name of the Discipline:** EPIDEMIOLOGY |
| **2.2.** | **Teaching staff in charge with lectures: CONF. DR. MATEI MIOARA CALIPSOANA** |
| **2.3.** | **Teaching staff in charge with seminar activities: CONF DR. MATEI MIOARA CALIPSOANA, LECT. DR. MANOLE ALINA MIHAELA** |
| **2.4. Year**  | **VI** | **2.5. Semester** | **I/II** | **2.6. Type of evaluation**  | C2 | **2.7. Discipline regimen**  | **Compulsory** |

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**
 | **28** | **Of which: 3.5. lectures** | **14** | **3.6. seminar/ laboratory** | **14** |
| **Distribution of time**  |  |  |  |  | Hours |
| **Study time using coursebook materials, bibliography and notes**  | **8** |
| **Further study time in the libray, online and in the field** | **4** |
| **Preparation time for seminars / laboratories, homework, reports, portfolios and essays** | **6** |
| **Tutoring** | **2** |
| **Examinations** | **2** |
| **Other activities** | **-** |
| **3.7. Total hours of individual study** |  | **22** |
| **3.8. Total hours / semester** |  | **50** |
| **3.9. Number of credits**  |  | **2** |

1. **Prerequisites (where applicable)**

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| **4.1. curriculum** | Not applicable |  |
| **4.2. competences** | Not applicable |  |

1. **Conditions (where applicable)**

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| **5.1. for lecture delivery** | Not applicable |  |
| **5.2. for seminar / laboratory delivery** | Not applicable |  |

1. **Specific Competences Acquired**

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| **Professional Competences (knowledge and skills)** | 1. To know epidemiological surveillance in communicable diseases (rubella, measles, poliomyelitis, influenza, viral hepatitis, HIV/AIDS); data collection, processing, analysis and their feedback.2. Planning, organizing and carring out vaccinations according to National Program of Immunisations; to establish the recommendations for risk group vaccination (elders, patients with dialises and chronic diseases, travellers in endemic areas, etc.3. Recommendation and administration of sero- and immunoglobulin preventional therapy and their practical use.4. Collection, preservation, and transport of pathological products (blood, faeces, pharingeal exsudate) for laboratory examinations useful in epidemiological activity for viral infections (influenza, enteroviroses) or bacterial infections (with A group betahaemolytic streptococcus, *Salmonella typhi*, *Shigella*); laboratory results interpretation in a certain epidemiological context.5. The establishment of methods and active substances used in the decontamination and sterilization of the communicable diseases outbreaks or in other epidemiological circumstances.6. Carrying out the epidemiological inquiry with the structuring and application of the Program for Prevention and Control in order to solve the epidemiological emergencies in various outbreaks of communicable disease. |
| **Transversal Competences (roles, personal and professional development)** | • Expressions of interest for knowledge and positive attitude of self and patients• Use skills and specific learning attitudes in the university context |

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

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| **7.1. General Obiective** | To know the epidemiological methods used for the prevention and control of communicable diseases. |
| **7.2. Specific Obiectives**  | 1. Acquiring the necessary knowledge in order to be able to implement the epidemiological surveillance system in some transmittable diseases (influenza, measles, rubella, poliomyelitis, viral hepatitis, HIV/AIDS);
2. Acquiring the necessary knowledge in order to know the planning, the organizing system, and schedule of the vaccines included in the Romanian National Immunization Program, and also other vaccines;
3. Knowing the products used in serum prevention and in immunoglobulin prevention, and practical examples of use;
4. Knowing the necessary manoeuvres to take samples of blood, faeces, nasopharyngeal exudate, for the laboratory examination necessary in the epidemiological activity, such as viral infections (influenza, poliomyelitis), bacterial infections (*"A" Group beta-haemolytic Streptococcus*, *Salmonella typhi, Shigella*); interpreting the laboratory results according with the epidemiological situation;
5. Acquiring the necessary knowledge in regard to decontamination and sterilizing methods, in order to be able to intervene in prevention and control of an epidemiological outbreak;
6. Acquiring the necessary knowledge in order to be able to intervene efficiently in various transmittable diseases foci (case study – viral hepatitis, acute diarrheic disease, influenza, nosocomial infections, mumps, and rubella).
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1. **Contents**

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| **8.1. Lecture** | **Teaching methods**  | **Comments** |
| Course 1. Epidemiological process: review of general data (definition, structure, forms of manifestation). Influenza, measles, rubella: characteristics of pathogens with epidemiological importance; epidemiological process, general and specific prevention and control. | - video presentation |  |
| Course 2. "A" Group Beta-haemolytic Streptococcus (ABHS) and Meningococcal infections: characteristics of pathogenic agent with epidemiological importance; epidemiological process, general and specific prevention and control. | - video presentation |  |
| Course 3. Acute Diarrheal Disease: characteristics of pathogenic agent with epidemiological importance; epidemiological process, general and specific prevention and control. | - video presentation |  |
| Course 4. Poliomyelitis and leptospirosis: characteristics of pathogenic agent with epidemiological importance; epidemiological process, general and specific prevention and control. | - video presentation |  |
| Course 5. Nosocomial infection and prionoses: characteristics of pathogenic agent with epidemiological importance; epidemiological process, general and specific prevention and control. | - video presentation |  |
| Course 6. Viral hepatitis: characteristics of pathogenic agent with epidemiological importance; epidemiological process, general and specific prevention and control. | - video presentation |  |
| Course 7. Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome (HIV/AIDS: characteristics of pathogenic agent with epidemiological importance; epidemiological process, general and specific prevention; national and worldwide epidemiological situation. | - video presentation |  |
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| **Bibliography**1. A. Ivan, Doina Azoicăi, Raluca Grigorescu. *Special and general epidemiology*. Bilingual edition. Editura Polirom Iaşi, 1996.
2. I*n extenso* texts of the courses and practical laboratories - on the electronic platform of the University (e-Learning).
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| **8.2. Seminar / Laboratory** | **Teaching methods**  | **Comments** |
| 1. The epidemiological inquiry for transmissible diseases | - active - interactive- video presentation |  |
| 2. Elements of immuno-epidemiology. Vaccines available under the National Immunisation Program | - active - interactive- video presentation |  |
| 3. Elements of immuno-epidemiology. Vaccines used in special epidemiological situations | - active - interactive- video presentation |  |
| 4. Serum-prevention, Immunoglobulin-prevention. Immuno-modulators | - active - interactive- video presentation |  |
| 5 Decontamination and sterilization | - active - interactive- video presentation |  |
| 6. Laboratory investigations in practical epidemiology | - active - interactive- video presentation |  |
| 1. Epidemiological surveillance of transmissible diseases
 | - active - interactive- video presentation |  |
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| **Bibliography*** Ivan, Doina Azoicăi, Raluca Grigorescu. *Special and general epidemiology*. Bilingual edition. Editura Polirom Iaşi, 1996.
* I*n extenso* texts of the courses and practical laboratories may be consulted on the electronic platform of the University (e-Learning).
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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 objectives mentioned as such in teaching and curricula reviewed annually. After analysis within the discipline, they are discussed and approved at the Bureau of Curriculum, in order to harmonize with other disciplines. Throughout the period is assessed systematically as possible direct correlation between content and expectations of the academic community, Nominees of the community, professional associations and employers. As a primary goal, discipline aims to give students optimal preconditions for the next years of study in the program Licence in Medicine in anticipation of successful employment immediately after graduation in 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** | Colloquium mark | **Oral evaluation** | 50% |
| **10.5. Seminar / Laboratory** | Mark for semester activity | Written paper, interactive discussions  | 10% |
| Written paper  | Test  | 40% |
| **Minimum standard of performance: at least grade 5 to pass the discipline**Mark 5 (five) is considered the passing grade. To know the epidemiological process and prevention in communicable diseases. |

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

**Prof. Univ. Dr. Doina Azoicăi**

**October 2019**

**Signiture of Department Director**

**Conf. Univ. Dr. Florin Dumitru Petrariu**