**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** | | | | | | | | |
| **2.1.** | **Subject: Rehabilitation in geriatric pathology**  RE 1306 | | | | | | | |
| **2.2.** | **Module leader: Lecturer Cojocaru Clementina** | | | | | | | |
| **2.3.** | **Seminar leader: Lecturer Cojocaru Clementina** | | | | | | | |
| **2.4. Year of study** | | **3** | **2.5. Semester in which is taught** | **1** | **2.6. Evaluation type** | C | **2.7. Subject status** | Mandatory |

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

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| **3.1.Number of hours / week** | 2 | **3.2. Courses number of hours / week** | 1 | **3.3.Seminar / l practical classes** | 1 |
| **3.4. Total number of learning hours** | 28 | **3.5. Courses** | 14 | **3.6. Seminar / practical classes** | 14 |
| **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 specialised platforms via internet and by field work** | | | | | 6 |
| **Preparation for seminars / practical classes, study themes, reviews, portofolio, and essays** | | | | | 4 |
| **Tutorship** | | | | |  |
| **Examinations** | | | | | 2 |
| **Other activities** | | | | |  |
| **3.8. Total hours of individual study** | | | | | 22 |
| **3.9. Total hours pes semester** | | | | | 50 |
| **3.10. Number of credits** | | | | | 2 |

1. **Preconditions (where applicable)**

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| **4.1.** of curriculum |  |
| **4.2.** of competences |  |

1. **Conditions (where applicable)**

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| **5.1.** for lectures | Video logistical support. |
| **5.2.** for seminars / practical classes | Students will have the appropriate equipment |

1. **Specific competences acquired**

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| Professional competences (expressed as knowledge and abilities) | C1.2 Basic knowledge of key syndromes in geriatric diseases  C1.3 Appling kinesiology programs related functional diagnosis and physician's discretion, making and secondary prophylaxis C1.4 Using techniques to increase joint mobility, muscle strength, coordination, balance, the improvement of the modified parameters (cardiovascular, respiratory, neuromuscular, etc.) C1.5 Develop and implement new protocols for physiotherapy C2.1 Defending effects of general and local medical massage, massage techniques for a description of various body regions, with their indications and contraindications C2.2 Basic knowledge of opportunity for explanation and interpretation programs tailored physiotherapy treatment area and type of pathology C2-3 Applying appropriate massage programs pathology and treatment area C2-4 Analysis using parameters of intensity and duration of massage techniques tailored pathology, assessing muscle tone, a painful sensitivity before and after massage. C3.1 Identify physiological mechanisms of thermoregulation, thermal factors effect on the human body organs and systems; hydro identification techniques (HTT) the indications, contraindications and precautions. C3.2 Knowledge of proper procedures for the election of a hydro therapy strategies C3.3 Assessment and integration of hydro procedures in the therapeutic program, the type of pathology and objectives. C3-4 Evaluation parameters appropriate application of all forms of hydrotherapy establishing associations between opportunity and procedures. 3-5 Developed and developing new protocols HTT C4.3 Application procedures for electrotherapy, phototherapy, magnetic, ultasonotherapy; utilizes the parameters and timetable of applications tailored pathology and treatment area. C4.4 Use appropriate parameters in all forms of electrotherapy, assessing analgesic effects  C4.5 Implement various strategies to develop new protocols for electrotherapy |
| Transverse competences (of role, of professional development, personal) | Identify objectives to be achieved, the resources available, the conditions for completion of their work flow, working time, deadlines and related risks Identifying roles and responsibilities in a multidisciplinary team and application techniques and effective work relationships within the team and the relationship with the patient |

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

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| **7.1.** General objective | Presentation of geriatric syndromes and diseases, physical therapy programs, hydro, electrotherapy, functional assessment methods adapted to the treatment area and type of pathology |
| **7.2.** Specific objectives | Assessing and integrating physical therapy procedures, hydro massage, electrotherapy, phototherapy, magnetic, applying appropriate initial assessment and evaluation of functional deficit reduction, socio-professional independence gained after applied therapies |

1. **Contents**

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| **8.1. Lecture** | **Teaching methods** | **Observations** |
| Geriatrics, gerontology, definition; Physiological changes associated with aging; Theories of aging; geriatric assessment | PPT presentation interactive discussions | 2 hours |
| Changes in the cells and tissues in musculoskeletal disorders of the elderly; osteoporosis; osteomalacia; Arthrosis disease; Osteoarthritis. Recovery. | PPT presentation interactive discussions | 2 hours |
| Geriatrics giants: instability, immobility, intellect altered incontinence; Upper extremity fracture of the femur; Falls. Physical recovery. | PPT presentation interactive discussions | 2 hours |
| Features of internal diseases in elderly • Part I Features of respiratory diseases (COPD, lung cancer, asthma) Features of digestive disorders (hiatal hernia, the upper and lower gastrointestinal bleeding, colorectal cancer, gallstones). Physical recovery. | PPT presentation interactive discussions | 2 hours |
| Features of internal diseases in elderly • Part II Features of cardiovascular disease (heart failure, hypertension, ischemic heart disease, arrhythmias and management). Physical recovery. | PPT presentation interactive discussions | 2 hours |
| Features of internal diseases in elderly • Part III Features of the kidney disease, hematopoetic: Urinary infections, chronic kidney disease, prostate adenoma, megaloblastic anemia, iron deficiency anemia, chronic lymphatic leukemia) | PPT presentation interactive discussions | 2 hours |
| Diabetes. Pharmacovigilance | PPT presentation interactive discussions | 2 hours |
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| **8.2. Seminar / practical classes** | **Teaching methods** | **Observations** |
| Geriatric assessment, diagnosis geriatric clinical, psychosocial | Case presentations | 2 hours |
| Indications and contraindications of physical therapy in patients with respiratory diseases | Case presentations | 2 hours |
| Indications and contraindications of physical therapy in patients with cardiovascular disease | Case presentations | 2 hours |
| Indications and contraindications of physical therapy in patients with osteo-articular diseases | Case presentations | 2 hours |
| Indications and contraindications of physical therapy in patients with digestive disorders | Case presentations | 2 hours |
| Indications and contraindications of physical therapy in patients with hematological and renal disorders | Case presentations | 2 hours |
| Palliative care in eledely | Case presentations | 2hours |
| **Bibliography**  **mandatory**   1. GERIATRIE, Constantin Bogdan, Editura Medicala Bucuresti 1997 2. GERIATRIE SI GERONTOLOGIE Olimpia Ghidrai, Casa Cartii de Stiinta Cluj-Napoca 2002   **selective**   1. GHID DE URGENTE IN GERIATRIE, Rodica Ghiuru, Gavrilescu Cristina Maria, Eşanu Irina Mihaela, Cotea Irina, Crînguţa Mariana Paraschiv, Munteanu D., Editura Junimea, Iaşi2007 2. COMPENDIU DE GERIATRIE, Ion Hurjui, Editura ALFA,Iasi 2004 3. PRINCIPLES OF GERIATRIC MEDICINE AND GERONTOLOGY ,William R.Hazzard,John P.Blass | | |

1. **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. |

1. **Evaluation**

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| **Type of activity** | **Type of activity** | **Evaluation methods** | **Contribution to the final grade** |
| **Lecture** | Acquiring theoretical aspects and concepts presented in the course | Written exam | 50% |
| **Seminar/practical classes** | Practical works topics | Colloquium for practical work | 40% |
| Activity during the semester |  | **10%** |
| **Minimal performance standard:** application of therapeutic programs using physical therapy | | | |

**Date of completion: Signature of head of discipline**

20.01.2017 Lecturer Cojocaru Clementina

**Department approval date**

30.01.2017

**Signature of department director**

Lecturer Daniela-Viorelia Matei, Ph-D