**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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| Oncology and palliative care recovery | | | | **Oncology and palliative care recovery** | | **RE1314** |
| 2.2. Teaching staff in charge with lectures | | | | **Associate Professor Cristina Tărniceriu, MD, PhD** | | |
| 2.3. Teaching staff in charge with practical activities | | | | **Associate Professor Cristina Tărniceriu, MD, PhD** | | |
| 2.4. Year of study | **III** | 2.5. Semester | **2** | 2.6. The type of assessment | **Exam, E2** | |
| 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 | **2** | **1** | | **1** | | | |
| 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 | | | | |  | 6 | |
| Supplementary documentation in the library, using specialised platforms via internet and by field work | | | | |  | 6 | |
| Preparation time for seminars / practical classes, study themes, reviews, portfolio and essays | | | | |  | 5 | |
| Tutorship | | | | |  | 2 | |
| Examinations | | | | |  | 2 | |
| Other activities | | | | |  | 5 | |
| 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, Physiology, Physics, Biochemistry, Biomedical instrumentation for recovery |
| 4.2. of competences | Knowledge of fundamental concepts, theories and concepts of physiological and pathological mechanisms of the body, symptoms and clinical signs. |

5. **Conditions (where applicable)**

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| 5.1. for lectures | video logistics |
| 5.2. for seminars / practical classes | Students will wear a protective gown |

**6. Specific competences acquired**

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| **Professional competencies** | **C 3.5** | Development and elaboration of new hydrothermotherapy protocols used in rehabilitation and palliative medicine |
| **C 4.5** | Implementation of different strategies for the development of new electrotherapy protocols used in rehabilitation and palliative medicine |

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

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| 7.1. General objective | Knowledge, by students, of the possibilities of functional re-education, the methodology and limitations of rehabilitation medicine, considering that it can be a useful tool for the rehabilitation of functional and organic deficits. |
| 7.2. Specific objectives | Knowledge of standards applicable to oncology and palliative care recovery Capacity to work together, to consult the literature and organize collaborations for the joint design of the proposed themes |

**8. Contents**

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| **8.1. Lectures** | | **Teaching methods** | **Observations** |
| 1 | Need for physical therapy in palliative care | Interactive PowerPoint presentation, multimedia, case discussion | 2 hours |
| 2 | Electrophysical agents in patients with cancer | 2 hours |
| 3 | Kinetotherapy in patients with cancer | 2 hours |
| 4 | Physical therapy in musculoskeletal disorders in patients with cancer | 2 hours |
| 5 | Physical therapy in neurological disorders in patients with cancer | 2 hours |
| 6 | Physical therapy in respiratory disorders in patients with cancer | 2 hours |
| 7 | Decongestive physiotherapy in patients with cancer | 2 hours |

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| **8.2. Practical activities - practical class** | | **Teaching methods** | **Observations** |
| 1 | Understanding physical therapy in palliative care in patients with cancer | Paper presentation, discussion conclusions. | 2 Hours |
| 2 | Electrophysical methods in patients with cancer | 2 Hours |
| 3 | Kinetotherapy methods in patients with cancer | 2 Hours |
| 4 | Exercises in musculoskeletal disorders in patients with cancer | 2 Hours |
| 5 | Exercises in neurological disorders in patients with cancer | 2 Hours |
| 6 | Exercises in respiratory disorders in patients with cancer | 2 Hours |
| 7 | Decongestive physiotherapy methods in patients with cancer | 2 Hours |

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| **8.3. Bibliography:** |
| ***Mandatory:***   1. Course and practical work from e-Learning platform |
| 1. Keays KS, Harris SR, Lucyshyn JM, MacIntyre DL - Effects of Pilates exercises on shoulder range of motion, pain, mood, and upper-extremity function in women living with breast cancer: a pilot study - Phys Ther. 2008 Apr; 88(4):494-510. 2. Vladimir Poroch, Daniela Moşoiu, Ostin C. Mungiu, [MANAGEMENTUL DURERII PENTRU PACIENŢII DIN ÎNGRIJIREA PALIATIVĂ – PENTRU MEDICII DE FAMILIE](file:///C:\Users\SIMMED-01\Desktop\FD%20primite\HIPER%20LINK\Carti\Carte%20PEPNER.pdf), Editura „Gr.T.Popa” UMF Iaşi, 2017, 216 pagini,   ISBN 978-606-544-477-5 **- editor**   1. Clay CA, Perera S, Wagner JM, Miller ME, Nelson JB, Greenspan SL - Physical function in men with prostate cancer on androgen deprivation therapy - Phys Ther. 2007 Oct; 87(10):1325-33. |
| ***Elective:*** |
| 1. [TERAPIA DURERII – ASPECTE ACTUALE](file:///C:\Users\SIMMED-01\Desktop\FD%20primite\HIPER%20LINK\Carti\Carte%20Terapia%20durerii_Magda%20Leon.pdf), Ed.”Gr.T.Popa” UMF Iaşi, 2014, 280 pagini, ISBN 978-606-544-264-1, sub redacţia Maria-Magdalena Leon, Ostin C. Mungiu; Poroch Vladimir – autor capitol „Managementul durerii în îngrijirea paliativă 2. Keays KS, Harris SR, Lucyshyn JM, MacIntyre DL - Effects of Pilates exercises on shoulder range of motion, pain, mood, and upper-extremity function in women living with breast cancer: a pilot study - Phys Ther. 2008 Apr; 88(4):494-510. 3. Clay CA, Perera S, Wagner JM, Miller ME, Nelson JB, Greenspan SL - Physical function in men with prostate cancer on androgen deprivation therapy - Phys Ther. 2007 Oct; 87(10):1325-33. |

**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 neuromotor recovery techniques in cancer patients | | | |

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| Date | Holder of course / signature, | Holder of practical activities / signature, |
| 12.09.2023 | Associate Professor Cristina Tărniceriu, MD, PhD | Associate Professor Cristina Tărniceriu, MD, PhD |

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| Date of approval in the Department Council/Teaching Council, | | |
| 14.09.2023 |  | Department director / signature, |
|  |  | Associate Professor Daniela-Viorelia Matei, MD, PhD |