**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 | **Professional Practice** | **RE1327** |
| 2.2. Teaching staff in charge with lectures | **-** |
| 2.3. Teaching staff in charge with practical activities | **Associate Professor Dan Zaharia,MD, PhD Lecturer Cătălina Luca, PhD****Lecturer Iustina Condurache, PhD** |
| 2.4. Year of study | **III** | 2.5. Semester | **2** | 2.6. The type of assessment | **Colloquium, C2** |
| 2.7. Discipline type | **Mandatory** | **Specialty 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 |  |  |  |
| 3.4. Total number of learning hours: | **120** | 3.5. Of which: Courses |  | 3.6. Of which: Seminars / practical classes: | **120** |
| 3.7. Distribution of individual study time: | Hours sem. 1 | Hours sem. 2 |
| Study time using course book materials, bibliography and hand notes |  |  |
| Supplementary documentation in the library, using specialised platforms via internet and by field work |  |  |
| Preparation time for seminars / practical classes, study themes, reviews, portfolio and essays |  |  |
| Tutorship |  |  |
| Examinations |  |  |
| Other activities |  |  |
| Total hours of individual study (*without examinations*) |  |  |
| 3.8. Total hours per semester |  | **120** |
| 3.9. Number of credits |  | **2** |

**4. Preconditions (where applicable)**

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| 4.1. of curriculum | Recovery (in rheumatological diseases, in cardiovascular diseases, in respiratory diseases, in pediatric diseases, in sports pathology, in geriatric pathology, surgery) |
| 4.2. of competences | The basic knowledge for choosing the means and methods of functional assessment and balneophysiokinetotherapy treatment in different pathological situations |

5. **Conditions (where applicable)**

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| 5.1. for lectures | - |
| 5.2. for seminars / practical classes | Students will have appropriate equipment (medical equipment and medical clogs), massage tables, mattresses, trellis, medicine balls, elastic bands, springs, physiotherapy devices, etc. |

**6. Specific competences acquired**

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| **Transversal****competencies** | **CT1** | Identification of the objectives to be achieved, the available resources, the conditions for their completion, the work stages, working times, related completion deadlines and related risks |
| **CT2** | Identifying roles and responsibilities in a multidisciplinary team and applying effective communication and work techniques within the team |

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

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| 7.1. General objective | * to practically carry out activities related to communication with the patient, to participate to clinical activity
* to be able to carry out an investigation and balneophysiokinetotherapy treatment plan
* o know and perform specific therapy maneuvers
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| 7.2. Specific objectives | * to carry out manipulations for therapeutic purposes
* to know and interpret the results of current investigations.
* to know the care and emergency operations performed in medical-surgical emergencies in the medical internship unit
* knows the principles of balneo-physio-kinetotherapeutic treatment of neurological, orthopedic, cardiovascular, respiratory, rheumatological, surgical, pediatric, geriatric, uro-gynecological, endocrine-metabolic, sports, oncological pathology
* to apply the balneophysiokinetotherapy program taking into account the norms of professional ethics and deontology.
* to understand the role and develop their collaboration capabilities in the multidisciplinary team: doctor - physiotherapist - psychologist - medical assistant - nurse
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**8. Contents**

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| **8.2. Practical activities - practical class**  | **Teaching methods** | **Observations** |
|  | Safety and health training at work, law 319/2006, HG 1425/2006. General labor protection rules in practical activity.Knowing the relationship between the patient and the medical staff, the deontological behavior towards the patientPreparing the patient for the medical examinationThe identity of the patient, the handling of medical recordsKnowledge of some medical and social aspects raised by the patient in the family and prophylactic assistance in the fieldAssisting the patient during functional explorationsCarrying out some resuscitation maneuvers.Apply physiotherapy programs specifically for rheumatological pathologyApply physiotherapy programs specifically for orthopedic-traumatic pathologyApply physiotherapy programs specifically for neurological pathologyApply physiotherapy programs specifically for cardiovascular pathologyApply physiotherapy programs specifically for respiratory pathologyApply physiotherapy programs specifically for sports pathologyApply physiotherapy programs specifically for geriatric pathologyApply physiotherapy programs specifically for dermatological pathologyApply physiotherapy programs specifically for urogynecological pathologyApply physiotherapy programs specifically for endocrinological pathologyApply physiotherapy programs specifically for surgical pathologyApply specific physiotherapy programs for functional re-educationApply physiotherapy programs specifically for oncological pathology | Students will be required to observe, perform and apply specific physical therapy exercisesThe practice coordinator explains the specifics and principles of the methods used and demonstrates practically the various maneuvers and techniques used and then guides and supervises the students in the correct and safe performance of these methods and techniques.Students will be required to develop individualized and personalized physiotherapy programsActive participation of students in the recovery program. | Students will present themselves at the practice offices of the UMF Iasi partner units, and will carry out 120 hours of supervised specialized practice in medical centersPhysiokinetherapy and recovery center Iasi, Gr. T.Popa Foundation - Fzkt. Cristina-Nadia Kovacs;Analda Medical Recovery Center, Fzkt.Loghin Irina Ioana, Fzkt.Bărbulescu Constantin;Kinetera Medical Center Iasi - Kt. Andreea Bordeianu, Kt. Dima Gabriela;KineticFit Medical Recovery Center, Iasi - Ft. Shepherd Andreea;TBRCM SA – Nicolina Branch, Iași, Spa Treatment and Work Capacity Recovery -Fzkt. Butnaru Mihai Corneliu;SC OZONLIFE Iasi - Fzkt. Cătăramă Cristina Elena;Roderma Clinic, Physical Therapy Department, Iași- Fzkt. Alazaroaie Adrian, Fzkt. Caluschi Daniela Elena;Sp. C. F. Iasi - Fzkt.Vasluianu Roxana, Fzkt.Ignat Sorin;Clinical Recovery Hospital, Iasi - Fzkt. Piseru Emanuel Andrei, Fzkt. Bondar Teodora;"Sf Spiridon" County Emergency Clinical Hospital, Iași- Fzkt. Cretu Diana, Fzkt. Sofron Gheorghiță;Clinical Emergency Hospital "Prof. Dr. Nicolae Oblu" from Iasi - Fzkt. Rostaș Abel;Emergency Clinical Hospital for Children "Sfânta Maria", Iasi - Fzkt. Mititelu Ana;Clinical Hospital of Pneumophthisiology Iași - Fzkt. Cucu Alexandra;Regional Institute of Oncology, Iasi - Fzkt. Ionescu Bogdan;RED Hospital - "St. Sava" Hospital Iasi, Recumedis Medical Recovery and Balneophysiotherapy Hospital - Fzkt. Sava Anca, Fzkt. Ciubotaru Catalin;IMC Hospital - Medical Recovery Clinic, Iasi - Fzkt. Zapodeanu Felix;Other medical centers, after the conclusion of practice agreements. |

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| **8.3. Bibliography:** |
| ***Mandatory:*** |
| 1. Cristina Pomîrleanu: Clinical evaluation in rheumatology, 2016, Stef publishing house, ISBN: 978-606-575-675-5
 |
| 1. Pediatric Surgery Simona Gavrilescu; Elena Hanganu, Iulia Straticiuc-Ciongradi, Ioan Sârbu, Elena Tarcă. – Iași: Publishing House Gr.T. Popa, 2019 Bibliogr. ISBN 978-606-544-591-8
 |
| 1. Pneumophthysiology Course for Students of the Faculty of Dental Medicine-Antigona Trofor, European Institute Publishing House, Iasi, 2001, ISBN 973-611-205-5
 |
| 1. Vanvu, G., Recovery in sports pathology, Publishing House "Gr. T. Popa" UMF Iasi, 2018
 |
| 1. Postolache P.A. (coordinator), Soare I., Chelariu L.: "Recovery in cardiovascular diseases - course", ETNA Publishing House, Bucharest, 2020, 118 pg, ISBN 978-973-1985-60-2.
 |
| 1. Codrina Ancuta, Cristina Pomîrleanu, Principles of diagnosis and treatment in rheumatology, 2019, "Gr.T.Popa" publishing house UMF Iasi, ISBN:978-606-544-652-6
 |
| 1. edited by Codrina Ancuta: Essentials in Physical Medicine and Medical Recovery, 2010, "Gr.T.Popa" UMF Iasi publishing house, ISBN: 978-606-544-031-9
 |

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| ***Elective:*** |
| 1. Socolov D, Grigore M, Nemescu D, Socolov R. Obstetrics. Iasi, Ed UMF Gr T Popa 2020
 |
| 1. EMERGENCY GUIDELINES IN GERIATRIC, Rodica Ghiuru, Gavrilescu Cristina Maria, Esanu Irina Mihaela, Cotea Irina, Crînguţa Mariana Paraschiv, Munteanu D., Junimea Publishing House, Iasi 2007
 |
| 1. Andronache L.M., Practical elements of occupational therapy for the hemiplegic patient, Carol Davila University Publishing, Bucharest 2017
 |
| 1. Scientific coordinators: Ostin C. Mungiu, Dorel Săndesc; Editorial coordinator: Aurel F. Marin, Pain therapy. 4th edition (revised and added), "Gr. T. Popa" Publishing House, UMF Iasi, 2019
 |
| 1. C. Preda, Elements of nursing in Endocrinology, Publisher Gr. T. Popa, Iasi, 2009
 |

**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 |
| Assessment of theoretical knowledge | Acquiring theoretical notions and presented in the course |  |  |
| Practical activities | Presentation of 3 cases observed in the center where the internship took place | Each student will present at the colloquium 3 cases with different diagnoses observed in the centers where he participated in the practice. Correctness will be noted: joint and muscle evaluations,Application of the kinetotherapeutic program | 80% |
| Evaluation during the semester | Active participation:The frequency and value of the interaction in the specialized practice classes are recorded. | Periodic check | 20 % |
| Minimal performance standard:* application of physiokinetotherapeutic programs using different recovery procedures for the learned pathology
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| Date | Holder of course / signature, | Holder of practical activities / signature, |
| 8.09.2023 |  | Associate Professor Dan Zaharia,MD, PhD Lecturer Cătălina Luca, PhDLecturer Iustina Condurache, 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 |