**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 | **Rheumatology** | **RE1309** |
| 2.2. Teaching staff in charge with lectures | **Professor Codrina Ancuta, MD, PhD**  |
| 2.3. Teaching staff in charge with practical activities | **Professor Codrina Ancuta, MD, PhD**  |
| 2.4. Year of study | **III** | 2.5. Semester | **1** | 2.6. The type of assessment | **Exam, E1** |
| 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 | **2** | **1** | **1** |
| Semester 2 |  |  |  |
| 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 | 5 |  |
| Preparation time for seminars / practical classes, study themes, reviews, portfolio and essays | 5 |  |
| Tutorship | 2 |  |
| Examinations | 2 |  |
| Other activities | 6 |  |
| 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 | Biomechanics, Electrotherapy, Kinetotherapy, Massage |
| 4.2. of competences | Knowledge of the principles of composition and functioning of living matter at the molecular, cellular, tissue and organ level and the pathology associated with them determined by different factors and conditions. |

5. **Conditions (where applicable)**

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| 5.1. for lectures | Logistic support – PC, projector |
| 5.2. for seminars / practical classes | Students with adequate equipment |

**6. Specific competences acquired**

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| **Professional competencies** | **C 3.4** | Evaluation of the appropriate parameters in the application of all forms of HTT establishing the opportunity and schedule of associations between procedures Identification of syndromes specific to rheumatic diseasesApplication of joint and muscle balance techniques |
| **C 4.3** | Application of disease activity indices, functional assessment scores and quality of life assessment in patients with rheumatic diseases |

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

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| 7.1. General objective | To describe main inflammatory, mechanical and degenerative rheumatic conditions (clinical picture, disability, management);To achieve basic skills for clinical assessment and evaluation of rheumatic conditions;To advance the role of physical therapy (electro-, hydro-, kinetotherapy) in different rheumatic diseases; |
| 7.2. Specific objectives | To promote knowledge about functional disability related to different rheumatic conditions;To develop the ability to select adequate methods and techniques of physical therapy in order to prevent or decrease the musculoskeletal impairment/ disability;To develop the ability to plan both short and long-term rehabilitation programs;To promote a successful relationship between physical therapists and specialist physicians |

**8. Contents**

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| **8.1. Lectures** | **Teaching methods** | **Observations** |
| 1 | Functional deficit: types, assessment. Generality of rehabilitation in rheumatic conditions: objectives, methods, monitoring and assessment  | Power point presentations and projections | 2 hours |
| 2 | Rheumatoid arthritis: brief description of clinical, lab and drug management; mechanisms of functional impairment; functional diagnosis; | Power point presentations and projections | 2 hours |
| 3 | Ankylosing Spondylitis: brief description of clinical, lab and drug management; mechanisms of functional impairment; functional diagnosis. | Power point presentations and projections | 2 hours |
| 4 | Psoriatic arthritis: brief description of clinical, lab and drug management; mechanisms of functional impairment; functional diagnosis | Power point presentations and projections | 2 hours |
| 5 | Osteoarthritis: brief description of clinical, lab and drug management; mechanisms of functional impairment; functional diagnosis | Power point presentations and projections | 2 hours |
| 6 | Spine pathology (disk herniation): brief description of clinical, lab and drug management; mechanisms of functional impairment; functional diagnosis. Microcrystalline arthropathies (gout): brief description of clinical, lab and drug management; mechanisms of functional impairment; functional diagnosis. | Power point presentations and projections | 2 hours |
| 7 | Osteoporosis: brief description of clinical, lab and drug management; mechanisms of functional impairment; functional diagnosis; | Power point presentations and projections | 2 hours |

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| **8.2. Practical activities - practical class**  | **Teaching methods** | **Observations** |
| 1 | Physical examination in rheumatology; joint biomechanics | Clinical cases | 2 hours |
| 2 | Rheumatoid arthritis: functional diagnosis | Clinical cases | 2 hours |
| 3 | Ankylosing Spondylitis: functional diagnosis. Psoriatic arthritis: functional diagnosis | Clinical cases | 2 hours |
| 4 | Hip osteoarthritis: functional diagnosis. Knee osteoarthritis: brief description of clinical, lab and drug management; functional diagnosis. Hip and knee replacement: functional diagnosis | Clinical cases | 2 hours |
| 5 | Lumbar and cervical spine pathology (disk herniation functional diagnosis | Clinical cases | 2 hours |
| 6 | Microcrystalline arthropathies (gout): functional diagnosis. Soft tissue pathology – focus on shoulder and hip: functional diagnosis | Clinical cases | 2 hours |
| 7 | Osteoporosis: functional diagnosis | Clinical cases | 2 hours |

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| **8.3. Bibliography:** |
| ***Mandatory:*** |
| 1.Chirieac Rodica & Ancuta Codrina: Notiuni de balneofizioterapie, curs pentru studenti, Iasi 2009, editura “Gr.T.Popa” UMF Iasi ISBN: 978-973-7682-81-9 (suport curs)2.Ancuta Codrina: Clinica si tratamentul complex al principalelor boli reumatismale, Iasi 2009, editura „Gr.T.Popa” UMF Iasi, ISBN: 978-973-7682-78-9 (suport)3.sub redactia C. Ancuta: Esentialul in Medicina Fizica si Recuperare Medicala, Iasi 2010, editura „Gr.T.Popa” UMF Iasi, ISBN: 978-606-544-031-94.Marc C. Hochberg, Ellen M Gravallese, Josef S. Smolen, Desiree van der Heijde, Michael E. Weinblatt,5.Michael H. Weisman. Rheumatology. 2-Volume Set. Hardback. 2022.6.Handa R. Clinical Rheumatology. Springer Verlag, Singapore. 2022. |
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| ***Elective:*** |
| Ancuta Codrina: Elemente de diagnostic, evaluare si monitorizare in patologia reumatismala (DVD educational), Iasi 2009, editura „Gr.T.Popa” UMF Iasi, ISBN: 978-973-7682-91-8 (suport LP studenti)Elena Rezus - ed ,Essential Rheumatology for trainees medical students, Ed UMF Iasi.2015. |
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**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:* Correct identification, classification and assessment of rheumatic diseases
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| Date | Holder of course / signature, | Holder of practical activities / signature, |
| 11.09.2023 | Professor Codrina Ancuta, MD, PhD | Professor Codrina Ancuta, 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 |