**SYLLABUS**

1. **Programme Details**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** |
| **1.2.**  | **FACULTY : MEDICINE / DEPARTMENT: MEDICALE II** |
| **1.3.** | **DISCIPLINE: : RHEUMATOLOGY. REHABILITATION, PHYSICAL MEDICINE AND BALNEOLOGY** |
| **1.4.**  | **FIELD of STUDY:** **HEALTH** |
| **1.5.** | **STUDY CYCLE: BACHELOR**  |
| **1.6.** | **PROGRAMME of STUDY: Medicine - English**  |
| 1. **Discipline Details**
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| **2.1.** | **Name of the Discipline: RHEUMATOLOGY. REHABILITATION, PHYSICAL MEDICINE AND BALNEOLOGY** |
| **2.2.** | **Teaching staff in charge with lectures: Conf. Univ. Dr. Elena Rezuș, Conf. Univ. Dr. Codrina Ancuța** |
| **2.3.** | **Teaching staff in charge with seminar activities: Conf. Univ. Dr. Elena Rezuș, Conf. Univ. Dr. Codrina Ancuța, Șef lucrări Dr.Cristina Pomîrleanu, Șef lucrări Dr. Luana Macovei, Asist. Univ. Dr. Anca Cardoneanu, Asist. Univ. Dr. Alexandra Burlui** |
| **2.4. Year**  | **VI** | **2.5. Semester** | **I, II** | **2.6. Type of evaluation**  | E1E2 | **2.7. Discipline regimen**  | compulsory |

1. **Overall Time Estimates (hours/semester of didactic activity)**

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| * 1. **Number of hours per week**
 | 7 | **Of which: 3.2. lectures** | 3 | * 1. **seminar/ laboratory**
 | 4 |
| * 1. **Total hours in the curriculum**
 | 46 | **Of which: 3.5. lectures** | 18 | **3.6. seminar/ laboratory** | 28 |
| **Distribution of time**  |  |  |  |  | Hours |
| **Study time using coursebook materials, bibliography and notes**  | 40 |
| **Further study time in the libray, online and in the field** | 10 |
| **Preparation time for seminars / laboratories, homework, reports, portfolios and essays** | 10 |
| **Tutoring** | 28 |
| **Examinations** | 5 |
| **Other activities** | 14 |
| **3.7. Total hours of individual study** |  | 79 |
| **3.8. Total hours / semester** |  | 125 |
| **3.9. Number of credits**  |  | 5 |

1. **Prerequisites (where applicable)**

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

1. **Conditions (where applicable)**

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| **5.1. for lecture delivery** |  |
| **5.2. for seminar / laboratory delivery** |  |

1. **Specific Competences Acquired**

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| **Professional Competences (knowledge and skills)** | 1. The diagnosis of main rheumatic diseases.
2. Interpretation of the main imaging techniques in rheumatic diseases.
3. Interpretation bulletins of usual and specific (immunological) analysis in rheumatic diseases
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| **Transversal Competences (roles, personal and professional development)** | * + - 1. Teamwork
			2. acquiring specific knowledge and skills
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1. **Obiectives of the Discipline (related to the acquired competences)**

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| **7.1. General Obiective** | Acquiring the skill to perform a complete physical exam of the musculoskeletal system in rheumatic diseases (rheumatoid arthritis, spondylarthrites, vasculo-connective tissue diseases, osteoarthritis, lombosciatica). |
| **7.2. Specific Obiectives**  | 1. Making muscle testing: test the shoulder, hand, hip, knee, spine.
2. Interpretation of the main means rheumatic patient assessment laboratory: bone radiography, immunological markers, joint fluid analysis, osteodensitometry. Acquiring the main concepts in order to draw up a rehabilition program
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1. **Contents**

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| **8.1. Lecture** | **Teaching methods**  | **Comments** |
| Rheumatoid Arthritis (positive and differential diagnosis; management-drugs,physical therapy and rehabilitation; biological therapy) | - active- interactive- PowerPoint presentation (PPT)- video projection | 2 hours |
| Connective tissue disorder; overlap syndromes; vasculitis (positive and differential diagnosis; management; rehabilitation) | - active- interactive- PowerPoint presentation (PPT)- video projection | 4 hours |
| Spondylarthropathies (positive and differential diagnosis; management; rehabilitation | - active- interactive- PowerPoint presentation (PPT)- video projection | 4 hours |
| Peripheral and spinal osteoarthritis (positive and differential diagnosis; management; rehabilitation) | - active- interactive- PowerPoint presentation (PPT)- video projection | 2 hours |
| Osteoporosis (positive and differential diagnosis; management; rehabilitation) | - active- interactive- PowerPoint presentation (PPT)- video projection | 2 hours |
| Spinal disk pathology (positive and differential diagnosis; management; rehabilitation) | - active- interactive- PowerPoint presentation (PPT)- video projection | 2 hours |
| Microcrystalline arthritis (positive and differential diagnosis; management; rehabilitation) | - active- interactive- PowerPoint presentation (PPT)- video projection | 2 hours |
| **Bibliography**1. Rezus E. Essential Rheumatology for Trainees and Medical Students , „Gr. T. Popa”, U.M.F Iasi, 2016, ISBN: 978-606-544-357-0
2. Rezus E. DVD. Reumatologie – cazuri clinice, „Gr. T. Popa”, U.M.F Iasi, 2014, ISBN: 978-606-544-256-6
3. Klippel J. H. et al. Primer in the Rheumatic Diseasesthirteenth edition, Springer, 2008, ISBN: 978-0-387-35664-8
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| **8.2. Seminar / Laboratory** | **Teaching methods**  | **Comments** |
| Musculoskelatal exam in rheumatic disorders | teamwork-patient examination | 4 hours |
| Rheumatoid Arthritis clinical cases | teamwork-patient examination | 2 hours |
| Spondylarthropathies: Ankylosing Spondylitis, Reactive Arthritis, Psoriatic Arthritis, Entheropathic arthritis – clinical cases | teamwork-patient examination | 4 hours |
| Connective Tissue Disorders & Vasculitis: Systemic Lupus Erythematosus, Systemic Scleroderma, Poly/Dermatomyositis, Mixed Connective Tissue Disorder – clinical cases | teamwork-patient examination | 4 hours |
| Osteoarthritis – clinical cases | teamwork-patient examination | 3 hours |
| Spinal Disk Pathology – clinical cases | teamwork-patient examination | 3 hours |
| Microcrystalline Arthritis – clinical cases | teamwork-patient examination | 2 hours |
| Musculoskeletal Functional Deficit – assessment | teamwork-patient examination | 2 hours |
| Development of a Functional Rehabilitation Program | teamwork-patient examination | 2 hours |
| Immunological tests, X-rays, IRM, CT, DXA analysis | teamwork-patient examination | 2 hours |
| **Bibliography**1. Rezus E. Essential Rheumatology for Trainees and Medical Students , „Gr. T. Popa”, U.M.F Iasi, 2016, ISBN: 978-606-544-357-0
2. Rezus E. DVD. Reumatologie – cazuri clinice, „Gr. T. Popa”, U.M.F Iasi, 2014, ISBN: 978-606-544-256-6
3. Klippel J. H. et al. Primer in the Rheumatic Diseasesthirteenth edition, Springer, 2008, ISBN: 978-0-387-35664-8
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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 teaching objectives and specified as such in analytical programs reviewed annually. After analysis within the discipline, these are discussed and approved within the Curriculum Department, in the sense of harmonization with other disciplines. Throughout this process, the correspondence between content and the expectations of the academic community, community representatives, professional associations and employers is systematically assessed, as far as possible. As a primary goal, the discipline aims to provide students with the optimal prerequisites for the next years of study in the Bachelor's degree program, in order to successfully engage, immediately after graduation, in residential 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** | Grade for multiple choice test | standardized multiple choice test | 50% |
| **10.5. Seminar / Laboratory** | Average grade of ongoing examinations | ongoing evaluation | 10% |
| Grade for practical examination | practical exam | 40% |
| **Minimum standard of performance: at least grade 5 to pass the discipline** |

**Date:**

**14 OCT 2019 Signiture of Didactic Co-ordinator**

**Assoc. Prof. Dr. Rezuș Elena MD, PhD**

 **Signiture of Department Director Prof. Dr.Alexa Ioana MD, PhD**