Appendix number 1.5 to The Rector UR Resolution No. 12/2019

SYLLABUS

**concerning the cycle of education 2022-2028**

(date range)

* 1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

|  |  |
| --- | --- |
| Subject / Module | Rehabilitation |
| Course code / module \* | Rh / E |
| Faculty of (name of the leading direction) | **College of Medical Sciences, University of Rzeszów** |
| Department Name | **College of Medical Sciences, University of Rzeszów** |
| Field of study | medical direction |
| Level of education | uniform master's studies |
| Profile | practical |
| Form of study | stationary / extramural |
| Year and semester | year V, semester IX |
| Type of course | obligatory |
| Coordinator |  |
| First and Last Name of the Teacher |  |

\* - According to the resolutions of the Faculty of Medicine

1.2. Forms of classes, number of hours and ECTS

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Lecture | Exercise | Conversation | Laboratory | Seminar | ZP | Practical | Self-learning | **Number of points ECTS** |
| 10 | 20 | - | - | - | - | - | - | **2** |

1.3. The form of class activities

☒classes are in the traditional form

☐classes are implemented using methods and techniques of distance learning

1.4. Examination Forms / module (exam, credit with grade or credit without grade)

2. REQUIREMENTS

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| --- |
| Knowledge in the field of anatomy and physiology, neurology, paediatrics, orthopedics. |

**3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS**

* 1. Objectives of this course/module

|  |  |
| --- | --- |
| C1 | getting acquainted with the issues of medical rehabilitation, getting to know its definitions, goals, methods and means |
| C2 | getting to know the elements of a clinical trial for the needs of rehabilitation, getting acquainted with the basic principles of programming a comprehensive rehabilitation treatment |
| C3 | familiarization with the problems of comprehensive rehabilitation of patients with musculoskeletal dysfunctions, treatment that improves patients after acute spinal injury with neurological complications, treatment improving patients with musculoskeletal injuries, comprehensive treatment to improve degenerative changes in the musculoskeletal system and determining its place in interdisciplinary (including surgery) treatment conservative people with spine disorders, rehabilitation in respiratory and cardiovascular diseases |

3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

|  |  |  |
| --- | --- | --- |
| EK (the effect of education) | The content of the learning effect defined for the subject (module) | Reference to directional effects (KEK) |
| EK­\_01 | knows and understands the concept of disability, disability and disability | E.W30. |
| EK\_02 | knows the role and methods used in medical rehabilitation | E.W31. |
| EK\_03 | performs functional assessment of a disabled patient | E.U22. |
| EK\_04 | can propose a rehabilitation program in the most common diseases | E.U23. |
| EK\_05 | can establish and maintain a deep and respectful contact with the patient | K.01. |

**3.3 CONTENT CURRICULUM (filled by the coordinator)**

1. **Lectures**

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| **Course contents** |
| Organizational and introductory classes. Familiarizing students with issues, pass criteria. |
| Definition and physiological foundations of rehabilitation, complexity of rehabilitation, means of influence in rehabilitation, conditions of effectiveness and obstacles in rehabilitation. |
| Rehabilitation and disability prevention. Definition and epidemiology of disability, disability and disability. |
| The scope of principles and the application of the International Classification of Functioning, Disability and Health (ICF) in the diagnosis process. |
| The specificity of rehabilitation in diseases of the movement system, circulatory - respiratory, nervous and people of developmental age and the elderly. |
| Selected methods used in rehabilitation. |
| Indications and contraindications for rehabilitation. |

**B**. **Exercises**

|  |
| --- |
| **Course contents** |
| Organizational and introductory classes. Familiarizing students with issues, pass criteria. |
| Assessment of the efficiency of the motion system in static and dynamic conditions. |
| Programming optimal physiotherapeutic procedures in correlation with the results of physical examination. |
| Rehabilitation in diseases of the musculoskeletal system. |
| Prevention and physiotherapy of consequences of immobilization. |
| Physiotherapy of people operated on due to the consequences of motor system diseases. |
| Faulty postures and scoliosis. Treatment of back pain. |
| Rehabilitation in osteoporosis. |
| Clinical problems and basics of rehabilitation of patients with central and peripheral nervous system diseases. |
| Neurorehabilitation methods based on brain plasticity. |
| Spasticity and stiffness - methods of treatment. |
| Clinical basis and principles of physiotherapy in peripheral vascular diseases and in selected metabolic diseases. |
| Principles of primary and secondary prevention of cardiovascular diseases. |
| Methods of rehabilitation in cardiovascular and respiratory diseases. |
| Principles of physiotherapy in people with increased or decreased muscle tone. |
| Improving people with chronic progressive diseases. |
| Selection of orthopedic supplies and technical support. |

**3.4 TEACHING METHODS**

Lecture: multimedia presentation.

Exercises: multimedia presentation, case analysis

Student's own work: work with a book

4 METHODS AND EVALUATION CRITERIA

4.1 Methods of verification of learning outcomes

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| --- | --- | --- |
| Symbol of effect | Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes) | Form of classes |
| EK\_01  EK\_02 | Written or oral exam | Lecture |
| EK\_03  EK\_04  EK\_05 | Practical pass - functional examination of the patient, selection of appropriate rehabilitation procedure to the needs and clinical condition of the patient | Exercises |

4.2 Conditions for completing the course (evaluation criteria)

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| --- |
| **Lectures**:  1. test pass and open questions:  A: Questions in the field of messages to remember;  B: Questions in the field of speech to understand;  C: Solving a typical written task;  D: Solving an atypical writing task;  - for insufficient solution of tasks only from areas A and B = grade 2.0  - for solving tasks only from areas A and B, the possibility of obtaining max. rating 3.0  - for solving tasks from the area A + B + C, the possibility of obtaining max. evaluation 4.0  - for the solution of tasks in the area A + B + C + D, the possibility of obtaining a rating of 5.0  **Knowledge assessment [EK\_01, EK\_02]:**  Written test  5.0 - has knowledge of the education content at the level of 93% -100%  4.5 - has knowledge of the content of education at the level of 85% -92%  4.0 - has knowledge of the content of education at the level of 77% -84%  3.5 - has knowledge of the content of education at the level of 69% -76%  3.0 - has knowledge of the content of education at the level of 60% -68%  2.0 - has knowledge of the educational content below 60%  **Exercises**:  1. full participation and activity in the exercises  2. written partial credits  There are unannounced tests from the last three classes.  **Skill assessment [EK\_03, EK\_04]**  5.0 - the student actively participates in classes, is well prepared, has acquired theoretical and practical knowledge in the field of medical rehabilitation at a very good level, has the ability to conduct a clinical trial for the needs of rehabilitation and proposes a rehabilitation program in the most common diseases  4.5 - the student actively participates in classes, has acquired theoretical and practical knowledge in the field of medical rehabilitation at a good level, has the ability to conduct a clinical trial for the needs of rehabilitation and proposes a rehabilitation program in the most common diseases, rarely makes mistakes  4.0 - the student actively participates in classes, is revised, has acquired theoretical and practical knowledge in the field of medical rehabilitation at a very good level, has the ability to conduct a clinical trial for the needs of rehabilitation and proposes a rehabilitation program in the most common diseases  3.5 - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem, he acquired theoretical and practical knowledge in the field of medical rehabilitation on a sufficient level, has the ability to carry out a clinical trial for the needs of rehabilitation and proposes a rehabilitation program in the most common diseases, but often commits errors  3.0 - student participates in classes, has acquired theoretical and practical knowledge in the field of medical rehabilitation at a sufficient level, has the ability to conduct a clinical trial for the needs of rehabilitation and proposes a rehabilitation program in the most common diseases, but usually makes mistakes and must be corrected  2.0 - the student passively participates in classes, the statements are incorrectly substantive, do not have theoretical and practical knowledge in the field of medical rehabilitation at a sufficient level, he has no ability to carry out a clinical trial for the needs of rehabilitation and incorrectly proposes a rehabilitation program in the most common diseases, often makes mistakes and must be corrected |

5. Total student workload required to achieve the desired result in hours and ECTS credits

|  |  |
| --- | --- |
| Activity | Hours / student work |
| Hours of classes according to plan with the teacher | 60 |
| Preparation for classes | 15 |
| Participation in the consultations | 2 |
| The time to write a paper / essay | - |
| Preparation for tests | 15 |
| Participation in colloquia | **1** |
| Other (e-learning) | **-** |
| SUM OF HOURS | **93** |
| TOTAL NUMBER OF ECTS | **2** |

6. TRAINING PRACTICES IN THE SUBJECT / MODUL

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| --- | --- |
| Number of hours | - |
| Rules and forms of apprenticeship | - |

1. LITERATURE

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| --- |
| **READING:** [Rehabilitacja medyczna (tom 1 i 2)](http://www.medbook.com.pl/ksiazka/pokaz/id/10830/tytul/rehabilitacja-medyczna-tom-1-kwolek-wydanie-2-elsevier-urban-&-partner), Andrzej Kwolek, Elsevier Urban & Partner, 2012  1. Kiwerski J.: Rehabilitacja medyczna. PZWL, Warszawa 2005. 2. [Kinezyterapia tom 1 -2 (komplet)](http://www.medbook.com.pl/ksiazka/pokaz/id/11345/tytul/kinezyterapia-tom-1-2-komplet-zembaty-kasper), Andrzej Zembaty Kasper, 2002, 3. [Diagnostyka funkcjonalna w fizjoterapii](http://www.medbook.com.pl/ksiazka/pokaz/id/11081/tytul/diagnostyka-funkcjonalna-w-fizjoterapii-ronikier-wydawnictwo-lekarskie-pzwl) Aleksander Ronikier  Wydawnictwo Lekarskie PZWL, 2012, 4. [Fizjoterapia w rehabilitacji neurologicznej](http://www.medbook.com.pl/ksiazka/pokaz/id/8729/tytul/fizjoterapia-w-rehabilitacji-neurologicznej-lennon-stokes-kwolek-elsevier-urban-&-partner), Sheila Lennon, Marika Stokes, red. wyd. pol. Andrzej Kwolek, Elsevier Urban & Partner, 2009 |
| Additional literature: [Fizjoterapia kliniczna](http://www.medbook.com.pl/ksiazka/pokaz/id/9535/tytul/fizjoterapia-kliniczna-kasprzak-wydawnictwo-lekarskie-pzwl), Wojciech Kasprzak, Wydawnictwo Lekarskie PZWL, 2010,[Fizjoterapia ogólna](http://www.medbook.com.pl/ksiazka/pokaz/id/11424/tytul/fizjoterapia-ogolna-kiwerski-wlodarczyk-wydawnictwo-lekarskie-pzwl), Jerzy Kiwerski, Katarzyna Włodarczyk Wydawnictwo Lekarskie PZWL, 2012[Fizjoterapia w wybranych dziedzinach medycyny](http://www.medbook.com.pl/ksiazka/pokaz/id/9988/tytul/fizjoterapia-w-wybranych-dziedzinach-medycyny-olszewski-wydawnictwo-lekarskie-pzwl), Kompendium, Jurek Olszewski, Wydawnictwo Lekarskie PZWL, 2011, [Fizykoterapia](http://www.medbook.com.pl/ksiazka/pokaz/id/1574/tytul/fizykoterapia-mika-kasprzak-wydawnictwo-lekarskie-pzwl),Tadeusz Mika, Wojciech Kasprzak, Wydawnictwo Lekarskie PZWL, 2006 |

Acceptance Unit Manager or authorized person