

SYLLABUS
concerning the cycle of education 2021-2027
(date range)

1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

Subject / Module	Rehabilitation
Course code / module *	Rh / E
Faculty of (name of the leading direction)	Medical College of Rzeszów University
Department Name	Medical College of Rzeszów University
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	Prof. Andrzej Kwolek
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
15	45	-	-	-	-	-	30	3

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

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

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

3.1. 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)

A. Lectures

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

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)

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	3
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6. TRAINING PRACTICES IN THE SUBJECT / MODUL

Number of hours	-
Rules and forms of apprenticeship	-

6. LITERATURE

READING: 1. Rehabilitacja medyczna (tom 1 i 2), Andrzej Kwolek, Elsevier Urban & Partner, 2012 2. Kiwerski J.: Rehabilitacja medyczna. PZWL, Warszawa 2005. 3. Kinezyterapia tom 1 -2 (komplet), Andrzej Zembaty Kasper, 2002, 4. Diagnostyka funkcjonalna w fizjoterapii Aleksander Ronikier Wydawnictwo Lekarskie PZWL, 2012, 5. Fizjoterapia w rehabilitacji neurologicznej, Sheila Lennon, Marika Stokes, red. wyd. pol. Andrzej Kwolek, Elsevier Urban & Partner, 2009
Additional literature: 1. Fizjoterapia kliniczna, Wojciech Kasprzak, Wydawnictwo Lekarskie PZWL, 2010, 2. Fizjoterapia ogólna, Jerzy Kiwerski, Katarzyna Włodarczyk Wydawnictwo Lekarskie PZWL, 2012 3. Fizjoterapia w wybranych dziedzinach medycyny, Kompendium, Jurek Olszewski, Wydawnictwo Lekarskie PZWL, 2011, Fizykoterapia, 4. Tadeusz Mika, Wojciech Kasprzak, Wydawnictwo Lekarskie PZWL, 2006

Acceptance Unit Manager or authorized person