

## Course description

### Part 1

General information about the course		
1. Major of study: Physiotherapy		2. Study level: unified MSc
		3. Form of study: intramural
4. Year: II, III / cycle 2021-2026		5. Semester: IV, V, VI
6. Course name: Physiotherapy in internal diseases in pulmonology.		
7. Course status: required		
8. Course contents and assigned learning outcomes		
Basic knowledge of respiratory anatomy and physiology. Physiotherapy in respiratory diseases.		
The aim of the course is to familiarize students with the physiotherapy of people with chronic lung diseases and techniques and special methods used in respiratory system physiotherapy using the knowledge of functional diagnostics, etiology and pathomechanism of respiratory diseases.		
Learning outcomes / reference to learning outcomes indicated in the standards		
For knowledge – student knows and understands: D.W3, D.W4, D.W9		
For skills student can do: D.U7, D.U33, D.U34, D.U35, D.U36, D.U38, D.U47		
For social competencies student is ready to: presenting an attitude promoting a healthy lifestyle, promoting and being active creating a healthy lifestyle and health promotion during related activities practicing the profession and determining the level of fitness necessary to practice the profession of physiotherapist		
9. Number of hours for the course		68
10. Number of ECTS points for the course		4
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Written test	*
Skills	Observation of skills acquired by the student during practical classes, verification of the correctness of performing physiotherapy procedures	*
Competencies	Observation of skills acquired by the student during practical classes	*

\* The following evaluation system has been assumed:

**Very good (5,0)** – the assumed learning outcomes have been achieved and significantly exceed the required level

**Better than good (4,5)** – the assumed learning outcomes have been achieved and slightly exceed the required level

**Good (4,0)** – the assumed learning outcomes have been achieved at the required level

**Better than satisfactory (3,5)** – the assumed learning outcomes have been achieved at the average required level

**Satisfactory (3,0)** – the assumed learning outcomes have been achieved at the minimum required level

**Unsatisfactory (2,0)** – the assumed learning outcomes have not been achieved

## Course description

### Part 2

Other useful information about the course		
<b>12. Name of Department, mailing address, e-mail:</b> Department of Rehabilitation, Faculty of Health Science in Katowice, Medical University of Silesia in Katowice, Ziołowa street 45/47 40-635 Katowice Phone number (32) 252 45 79 <a href="mailto:dolko@sum.edu.pl">dolko@sum.edu.pl</a>		
<b>13. Name of the course coordinator:</b> Katarzyna Gwizdek, MSc, PT <a href="mailto:kgwizdek@sum.edu.pl">kgwizdek@sum.edu.pl</a>		
<b>14. Prerequisites for knowledge, skills and other competencies:</b> Basic knowledge of respiratory anatomy and physiology. Physiotherapy in respiratory diseases.		
<b>15. Number of students in groups</b>	In accordance with the Senate Resolution	
<b>16. Study materials</b>	medical clothing, variable footwear, blood pressure monitor, centimeter tape, goniometer	
<b>17. Location of classes</b>	Department of Rehabilitation, Faculty of Health Science in Katowice, Medical University of Silesia in Katowice, Ziołowa street 45/47 40-635 Katowice	
<b>18. Location and time for contact hours</b>	Department of Rehabilitation, Faculty of Health Science in Katowice, Medical University of Silesia in Katowice, Ziołowa street 45/47 40-635 Katowice fixed hours according to the report available at the Cathedral's secretariat	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
C_K01	Student knows etiology, pathomechanism, manifestations and the course of the most prevalent diseases in the area of: cardiology and cardiosugery, pulmonology, surgery, gynecology and obstetrics, geriatrics, psychiatry, intensive medical care, oncology and paliative medicine at the scope ensuring rational use of physiotherapies	D.W3
C_K02	Student knows principles of diagnostics and general rules and management methods in the most prevalent diseases in the area of: cardiology and cardiosurgery, pulmonology, surgery. gynecology and obstetrics, geriatrics, psychiatry, intensive medical care, oncology and palliative medical care at the scope ensuring rational use of physiotherapies.	D.W4
C_K02	Students knows general principles of physical examination and history taking in pulmonology for physiotherapeutic purposes, maior accessory and supplementary investigations and function	D.W9

	tests to assist qualification and monitoring of respiratory physiotherapy.	
C_S01	Student can instruct the patients or their minders on exercise and medical training at home, the use of medical products and the use of utility objects for therapeutic needs.	D.U7
C_S02	Student can carry out functional investigations of the respiratory system, including spirometry, and to interpret the results of spirometry, the effort test and arterial blood gases analysis.	D.U33
C_S03	Student can design, select depending on the patient's clinical and functional condition, and perform the exercise in different respiratory conditions (acute and chronic) , in conditions with prevalence of restrictive disorders and in conditions with prevalence of obtrusive disorders.	D.U34
C_S04	Student can perform procedures in the area of respiratory physiotherapy in different pulmonological diseases, conditions after chest injuries, post-operative chest conditions and after lung transplants.	D.U35
C_S05	Student can instruct the patient with a respiratory disease about exercise at home and the use of secondary prevention.	D.U36
C_S06	Student can implement strategies for early mobilization of a patients after abdominal or thoracic surgeries, perform physiotherapeutic procedures to expand the lungs and clear the bronchi, provide instructions in the area of prophylactics od early and delayed post-operative complications and give recommendations regarding post-operative ambulatory physiotherapy.	D.U38
C_S07	Student can apply the principles of good communication with the patient and communicate with other members of the therapeutic team.	D.U47

20. Forms and topics of classes		Number of hours
<b>20.1. Lectures</b>		<b>30</b>
Types of respiratory diseases, symptoms, pathological and functional changes caused by the disease. Selection of functional diagnostic tests for assessing the patient's condition.		15
Stages of treatment and improvement of curative respiratory diseases. Current guidelines - literature review.		15
<b>20.2. Seminars</b>		<b>17</b>
The role of clinical and functional tests, clinical measurement methods, measurement techniques using special equipment in monitoring the effectiveness of rehabilitation.		
<b>20.3. Practical classes</b>		<b>35</b>
Performing clinical and functional tests.		7
The use of clinical measuring methods, measuring techniques using special apparatus.		7
Selection and performance of exercises and treatments in patients with pulmonary diseases.		7
Problems and mistakes made in rehabilitation programming.		7
Establishing physiotherapy programs, taking into account alternative solutions, the ability to perform research and tests necessary for the selection of physiotherapy measures.		7
<b>20.4. Without teacher</b>		<b>43</b>
Anatomy of the respiratory system.		8
The most common respiratory diseases - diagnostics, symptoms, treatment.		15
Clinical tests used in diagnostics.		20

#### 24. Readings

1. Roślawski A, Woźniewski M. *Fizjoterapia oddechowa*. Wyd. AWF, Wrocław, 2001.
2. Farnik M, Trzaska-Sobczak M, Jastrzębski D, Pierzchała W. *Rehabilitacja w chorobach układu oddechowego*. Wyd. SUM, Katowice, 2017.
3. Durmała J, Wądołowski K. *Fizjoterapia układu oddechowego – wybrane zagadnienia*. Wyd. SUM, Katowice, 2015.
4. Durmała J. Rehabilitacja pacjentów z chorobą płuc. W: Antczak A. (red.). *Wielka Interna Antczak-Myśliwiec-Pruszczyk t. 5. Pulmonologia cz. II*. Medical Tribune, Warszawa 2010; s. 486-492.

#### 25. Detail evaluation criteria

In accordance with the recommendations of the inspection bodies  
Completion of the course – student has achieved the assumed learning outcomes  
Detail criteria for completion and evaluation of the course are specified in the course regulations