

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: IV year / cycle 2021-2026	5. Semester: VII,VIII	
6. Course name: Functional diagnostics in internal diseases		
7. Course status: required		
8. Course contents and assigned learning outcomes		
Knowledge of human anatomy, physiology and musculoskeletal biomechanics.		
The aim of this study is to acquaint student with the ability to select and perform functional tests and examinations according to the clinical diagnosis, the period of the disease and the functional state of the patient, as well as the interpretation of basic functional tests.		
Learning outcomes / reference to learning outcomes indicated in the standards		
For knowledge – student knows and understands: DW4, DW6, DW7, DW8, DW9,DW16		
For skills student can do: DU28, DU33, DU47		
For social competencies student is ready to:		
practice the profession with awareness of the role of a physiotherapist in the society, including local communities.		
present attitudes promoting healthy lifestyle and promoting health throughout activities associated with practicing the profession and maintaining the level of fitness required to perform the tasks of a physiotherapist.		
observe the patient's rights and the rules of professional ethics.		
9. Number of hours for the course		66
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		
12. Name of Department, mailing address, e-mail: 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 43 70 / dolko@sum.edu.pl		
13. Name of the course coordinator: Katarzyna Gwizdek MSc, PT kgwizdek@sum.edu.pl		
14. Prerequisites for knowledge, skills and other competencies: Knowledge of human anatomy, physiology and musculoskeletal biomechanics.		
15. Number of students in groups	In accordance with the Senate Resolution	
16. Study materials	Medical clothing, stethoscope, sphygmomanometer	
17. Location of classes	Department of Rehabilitation, Faculty of Health Science in Katowice, Medical University of Silesia in Katowice, Ziołowa street 45/47 40-635 Katowice.	
18. Location and time for contact hours	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	The student knows principles of diagnostics and general rules and management methods in the most prevalent diseases in the area of: cardiology and cardio surgery, pulmonology, surgery. gynecology and obstetrics, geriatrics, psychiatry, intensive medical care, oncology and palliative medical care at the scope ensuring rational use of physiotherapies	DW4
C_K02	The student knows general principles of physical examination and history taking in cardiology, neurology, orthopedics, and geriatrics	DW6
C_K03	The student knows rules for interpretation of supplementary investigations in diagnostics of circulatory diseases and in cardiological physiotherapy, including: ECG, function tests, clinical assessment of the patient's condition in cardiological diseases applying different schemes for the safe use of physiotherapeutic methods	DW7
C_K04	The student knows results of stress tests in cardiological and pulmonological physiotherapy (bicycle ergometer, treadmill, march tests, spirometry), the NYHA (New York Heart Association) heart failure scale and values of the metabolic equivalent MET	DW8
C_K05	The student knows general principles of physical examination and	DW9

	history taking in pulmonology for physiotherapeutic purposes, major accessory and supplementary investigations and function tests to assist qualification and monitoring of respiratory physiotherapy	
C_K06	The student knows assumptions and principles of the International Classification of Functioning Disability and Health, ICF	DW16
C_S01	The student is able to carry out the basic functional measurements and tests, observing the safety rules, including the heart rate measurement, the BP, the march test the get up and go test, treadmill test following Bruce protocol and the modified Naughton's protocol as well as the cycloergometer effort test	DU28
C_S02	The student is able to 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	DU33
C_S03	The student is able to apply the principles of good communication with the patient and communicate with other members of the therapeutic team	DU47
20. Forms and topics of classes		Number of hours
20.1. Lectures		32
Diagnostic value of functional diagnostic tests used to assess the patient's condition for physiotherapy procedures.		8
Symptoms related to pathological changes and functional disorders caused by the disease and justify the selection of functional diagnostic tests to assess the patient's condition for physiotherapy procedures.		8
Indications and contraindications for qualification to rehabilitation process. Clinical and functional tests.		8
Clinical measurement methods and measurement techniques using special equipment and their role in assessing the patient's condition and monitoring effectiveness of rehabilitation's process.		8
20.2. Exercises		34
Programming of rehabilitation for selected clinical cases including functional diagnostics.		12
Planning and verifying the rehabilitation program of patients with internal diseases including functional diagnostics.		11
Modifying the rehabilitation program of patients with internal diseases including functional diagnostics.		11
20.3. Without a teacher		34
The role and importance of communication in the patient-physiotherapist relationship.		11
The role of a doctor, nurse, psychologist, occupational therapist and physiotherapist as a therapeutic team in functional diagnostics and process of rehabilitation of patient.		12
Effective communication with patients.		11
24. Readings		
1. Durmała Jacek, Wądołowski Karol: „Fizjoterapia układu oddechowego. Wybrane zagadnienia.” Wydawnictwo SUM, Katowice 2015.		
2. Durmała Jacek: „Rehabilitacja pacjentów z chorobą płuc.” W: Pulmonologia. Cz.2 (Red. A. Antczak), Medical Tribune Polska, Warszawa 2010. Seria: Wielka Interna - Antczak, Myśliwiec, Pruszczyk. T. 5.		
3. Farnik Małgorzata, Trzaska-Sobczak Marzena, Jastrzębski Dariusz, Pierzchała Władysław: „Rehabilitacja		

w chorobach układu oddechowego.” SUM, Katowice 2006.

4. Bromboszcz Jacek, Dylewicz Piotr (red.) „Rehabilitacja Kardiologiczna. Stosowanie ćwiczeń fizycznych.” ELIPSA-JAIM, Kraków 2005.

5. Smolis-Bąk Edyta, Kazimierska Barbara (red.) „Fizjoterapia w kardiologii.” Lapisart, Warszawa 2013.

6. Demczyszak Iwona: „Fizjoterapia w chorobach układu sercowo-naczyniowego” Górnicki Wydawnictwo Medyczne 2012.

25. Detail evaluation criteria	
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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.