

Course description

Part 1

Informacje ogólne o przedmiocie			
1. Major of study: Physiotherapy 2. Study profile: general academic		3. Study level: unified MSc 4. Form of study: intramural 5. Study cycle: cycle 2026-2031	
6. Year: II, III		7. Semester: IV, V	
8. Course name: Physiotherapy in internal diseases in pediatrics			
9. Course status: required			
10. Course contents and assigned learning outcomes: Providing knowledge and developing skills for objectifying musculoskeletal diagnostics in children and adolescents to guide the selection of physiotherapy methods for developmental age patients with acute and chronic illnesses. Performing clinical measurements and functional tests specific to the developmental age, essential for implementing physiotherapy in developmental age patients. Developing skills in applying physiotherapy methods in physiotherapy programs, performing therapeutic exercises, and physical procedures in the presence of developmental deficits, antigavity mechanism abnormalities, compensatory postural and movement patterns, and/or other musculoskeletal dysfunctions, appropriate to the clinical and functional status of developmental age patients with acute and chronic illnesses. Developing skills in collaborating within a rehabilitation team and with the family/caregivers and the community of pediatric patients. Learning outcomes/reference to learning outcomes included in (underline as appropriate): education standards (Regulation of the Minister of Science and Higher Education)/ <u>SUM Senate Resolution</u> (provide definitions included in the education standards/symbols of outcomes approved by the SUM Senate Resolution): in terms of knowledge, the student knows and understands: D.W1, D.W2, D.W16 in terms of skills, the student is able to: D.U17, D.U18, D.U19, D.U20, D.U21, D.U22, D.U23, D.U24, D.U26, D.U27, D.U43, D.U47, D.U49 in terms of social competences, the student is ready to: OK_K05, OK_K06			
11. Number of hours per subject: (contact/including communication hours*/self-study*)	52/-/-	12. Number of ECTS points for the course:	3
13. Form of passing the course: integrated exam			
14. Ways to verify and evaluate learning outcomes:			
Learning outcomes	Methods of verification ***	Assessment methods**/ passing***	
In terms of knowledge	Written test - multiple choice EBM-based discussion	*	
In terms of skills	Practical Assessment EBM-Based Discussion	*	
In terms of competence	Observation	*	

* if required by the educational standard

**in the case of an exam/credit assessment, the grade is assumed to be at the level of:

*** in accordance with the course regulations

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		
15. Name of Department, mailing address, e-mail: Department of Rehabilitation School of Health Sciences in Katowice Medical University of Silesia in Katowice, Ziołowa street 45/47 40-635 Katowice Phone number 32 252 43 70, 32 359 82 41/ dolko@sum.edu.pl		
16. Name and surname of the person responsible for the course / course coordinator: Katarzyna Gwizdek MSc, PT, kgwizdek@sum.edu.pl		
17. Prerequisites for knowledge, skills and other competencies: Basics of normal and functional anatomy, human physiology, and general pathology. Knowledge of the clinical foundations of physiotherapy in pediatrics.		
18. Number of students in groups	In accordance with the Order of the Rector of the Medical University of Silesia	
19. Study materials / teaching resources	Medical clothing, change of footwear, stethoscope, blood pressure monitor, reflex hammer, measuring tape, goniometer, clock with a second hand (or stopwatch)	
20. Location of classes	Department of Rehabilitation School of Health Sciences in Katowice Medical University of Silesia in Katowice, Ziołowa street 45/47 40-635 Katowice	
21. Location and time for contact hours	according to the schedule on the notice board of the Department and Clinic of Rehabilitation at the Faculty of Rehabilitation and Rehabilitation Medicine at the Silesian Medical University in Katowice	
22. Learning outcomes:		
Number of the course learning outcome	Course learning outcomes	Reference to the learning outcomes contained in (underline as appropriate): educational standards/ <u>approved by the Senate of SUM</u>
C_K01	The student knows the etiology, pathomechanism, symptoms and course of musculoskeletal dysfunctions in the field of pediatrics to a degree enabling responsible use of physiotherapy measures.	D.W1
C_K02	The student knows the principles of diagnosis and general principles and methods of treating the most common musculoskeletal dysfunctions in the field of pediatrics to a degree enabling responsible use of physiotherapy.	D.W2
C_K03	The student knows the assumptions and principles of the ICF.	D.W16
C_S01	The student is able to conduct an interview and collect basic information about the child's development and health.	D.U17
C_S02	The student is able to assess the psychomotor development of a child.	D.U18
C_S03	The student is able to assess the spontaneous activity of newborns and infants.	D.U19
C_S04	The student is able to assess their functional motor and communication skills based on appropriate scales.	D.U20
C_S05	The student is able to perform a clinical assessment of increased or decreased tone in children.	D.U21

C_S06	The student is able to perform a clinical assessment of body posture using diagnostic tools such as the Bunnell scoliometer, as well as perform a point-based and biostereometric assessment of body posture, along with interpreting the results.	D.U22
C_S07	The student is able to determine the Cobb angle and the rotation angle based on a spine X-ray using one of the assessment methods, assess bone age using the Risser test and interpret the obtained results, and, based on the obtained results, qualify scoliosis for appropriate physiotherapeutic treatment.	D.U23
C_S08	The student is able to plan, select, and conduct physiotherapy for children and adolescents with musculoskeletal disorders, including postural defects, depending on the patient's clinical and functional condition.	D.U24
C_S09	The student is able to plan, select, and implement physiotherapy treatments for children and adolescents with nervous system disorders.	D.U26
C_S010	The student is able to instruct children's caregivers on how to perform correct exercises at home.	D.U27
C_S011	The student is able to plan, select and instruct childcare providers in performing cardiopulmonary exercises for children and adolescents, depending on the clinical and functional condition of the patient.	D.U43
C_S012	The student is able to apply the principles of proper communication with the patient and is also able to communicate properly with other members of the therapeutic team.	D.U47
C_S013	The student is able to plan, select, implement, and modify physiotherapy programs for patients with various musculoskeletal disorders and internal diseases, taking into account the patient's clinical, functional, and psychological status.	D.U49
C_C01	The student is ready to recognize and acknowledge their own limitations, and to self-assess their deficits and educational needs.	OK_K05
C_C02	The student is ready to use objective sources of information.	OK_K06
23. Teaching methods: Traditional teaching methods, expository methods (lectures, bibliography work), Activating methods (discussions, brainstorming, situational methods, role-playing, and engagement-supporting methods), Practical methods (practical and clinical sessions).		
24. Forms and topics of classes: **		Number of hours (contact):
24.1. Lectures		21
Rehabilitation for various developmental illnesses. Current guidelines – a review of the scientific literature. ICF principles.		7
Congenital and acquired diseases causing dysfunction of the musculoskeletal system as an interdisciplinary problem requiring comprehensive rehabilitation, etiology, pathomechanism.		7
Physiotherapy in respiratory and cardiovascular diseases.		7
24.2. Seminars		5
Specificity of pediatric functional testing in pediatrics. Methods for assessing exercise capacity in pediatrics.		2,5

Prophylaxis, primary and secondary prevention in pediatrics. Selected special methods of physiotherapy in the developmental age.	2,5
24.3. Exercises	-
-	-
24.4. Clinical exercises	-
-	-
24.5. Practical classes	26
Specific physiotherapeutic methods used in respiratory and circulatory system disorders, as well as spinal deformities and postural defects. Clinical assessment using diagnostic tools and interpretation of results based on scales.	9
Interpretation and specificity of functional tests (e.g., spirometry) and radiological examinations in pediatric patients. Clinical assessment and interpretation of results. Instructing the patient and parents/guardians on preventive measures and home health training, based on the patient's clinical and functional status.	9
Assessment of normal development and functional assessment at various stages of development. Assessment of physical fitness and degree of independence.	8
24.6. Low fidelity simulations	-
-	-
24.7. High fidelity simulations	-
-	-
24.8. Self-study *	-
25. Balance of ECTS points:**	
ACTIVITY	NUMBER OF HOURS/ STUDENT WORKLOAD
Class hours according to the schedule with the teacher (contact)	52
Preparation for various forms of classes	-
Participation in consultations	-
Time for project/documentation/self-education	-
Self-education*	-
Preparation for the exam	-
Participation in the exam	-
Practical Classes	26
Professional internships	-
TOTAL HOURS	-
TOTAL NUMBER OF ECTS POINTS	3
26. Readings:	
<ol style="list-style-type: none"> 1. Marciniak W., Szulc A., Dega W. Wiktora Degi Ortopedia i Rehabilitacja. Warszawa: Wydaw. Lekarskie PZWL, 2003. 2. Matyja M. Neurorozwojowa analiza wad postawy ciała u dzieci i młodzieży. Katowice: Wydaw. Akademii Wychowania Fizycznego w Katowicach, 2012. 3. Matyja M, Gogol A. Edukacja sensomotoryczna niemowląt. Wyd. 4. ed. Katowice, Wydaw. Akademii Wychowania Fizycznego W Katowicach, 2010. 4. Rosławski A., Woźniewski M. Fizjoterapia oddechowa. Wyd. 3 Uzupełn. ed. Wrocław: Wydaw. Akademii Wychowania Fizycznego we Wrocławiu, 2001. 5. Tecklin J S. Fizjoterapia pediatryczna. Warszawa: Wydaw. Lekarskie PZWL, 1996. 6. Durmała J., Wnuk B. Kinezyterapia skolioz idiopatycznych opis metody trójplaszczynowej czynnej korekcji sterowanej oddechem w symetrycznych pozycjach wyjściowych (Metoda Dobosiewicz – DoboMed). Katowice, Śląski Uniwersytet Medyczny w Katowicach, 2015. 7. Śliwiński Z., Sieroń A. Wielka fizjoterapia. Wydanie 2 poszerzone i uzupełnione. Tom 3” Copyright by Edra Urban & Partner, Wrocław 2022. 	

27. 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.

* if required by the educational standard, the content of the self-study is provided by the instructor **
complete the appropriate sections in accordance with the instructions of the Council/Curriculum
Committee for the given field of study after approval by the Dean.