Course description

Part 1

General information about the course				
1. Major of study: Physiotherapy	2. Study level: unified MSc/ general academic profile			
	3. Form of study: intramural			
4. Year: II, III/ cycle 2021-2026	5. Semester: IV,V			
6. Course name: Physiotherapy in intern	nal diseases in pediatrics			
7. Course status: required				

8. Course contents and assigned learning outcomes:

Messages included in the curriculum of normal anatomy, physiology, diagnostic imaging, orthopedics, neurology, internal medicine and pharmacology; in particular the structure and function of the osteoarticular, nervous, circulatory and respiratory systems. Basic symptomatology of diseases of the musculoskeletal system, nervous system, circulatory system and respiratory system.

Objectives of the course:

- Providing knowledge and developing the skills of objectification of the musculoskeletal system diagnosis in children and adolescents for the selection of physiotherapy measures. Performing clinical measurements and functional tests characteristic for developmental age.
- Developing the ability to use physiotherapy in physiotherapy programs, perform therapeutic
 tasks, physical treatments in the event of developmental deficits, abnormal antigravity
 mechanisms, compensatory postural and motor patterns, or other musculoskeletal dysfunctions,
 appropriate to the clinical and functional state of pediatric patients.
- Developing the ability to cooperate in a rehabilitation team as well as with the family and the environment of pediatric patients.

Learning outcomes / reference to learning outcomes indicated in the standards

For knowledge – student knows and understands: DW1, DW2

For skills student can do: DU17, DU22, DU23, DU24, DU27, DU43, DU47, D.U49

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	
10. Number of ECTS points for the course	
11 Mathada of varification and evaluation of learning automas	

11. Methods of Verification and evaluation of learning outcomes				
Learning outcomes	Methods of verification	Methods of evaluation*		
Knowledge	Written test / Credit based on class	*		
	attendance			
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

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

Course description

Part 2

Other useful informa	tion about the	course			
12. Name of Departn	nent, mailing ad	dress, e-mail:			
		of Health Science in Katowice, Medical University of			
Silesia in Katowice, Zi	Silesia in Katowice, Ziołowa street 45/47 40-635 Katowice. Phone number (32) 252 43 70 /				
dolko@sum.edu.pl					
13. Name of the cour	rse coordinator:				
Katarzyna Gwizdek M	ISc, PT				
kgwizdek@sum.edu.p	ol				
14. Prerequisites for	knowledge, skil	ls and other competencies:			
Knowledge provided	in the curriculur	n from the range of anatomy, physiology, diagnostic			
		rnal medicine and pharmacology; in particular the			
		ticular, nervous, circulatory and respiratory systems.			
, ,	•	the musculoskeletal system, nervous system, circulato	ory		
system and respirator	ry system.				
4= 21					
15. Number of stude	ents in groups	In accordance with the Senate Resolution	and process		
16 Study motorials		Medical clothing, variable footwear, stethoscope, blo	•		
16. Study materials		monitor, neurological hammer, centimeter tape, gra	vity		
		goniometer, skoliometer	nco in		
17. Location of class		Department of Rehabilitation, Faculty of Health Scien Katowice, Medical University of Silesia in Katowice, 2			
17. LOCATION OF CIASS	ses	45/47 40-635 Katowice	Lioiowa Street		
		Department of Rehabilitation, Faculty of Health Scien	nce in		
18. Location and tin	ne for contact	Katowice, Medical University of Silesia in Katowice, Ziołowa street			
hours	ne for contact	45/47 40-635 Katowice fixed hours according to the			
liours		available at the Cathedral's secretariat.			
19. Learning outcome	es				
3			Reference to		
Number of the			learning		
course learning		Course learning outcomes	outcomes		
outcome		course rearring outcomes	indicated in		
outcome					
			the standards		
		s etiology, pathomechanism, manifestations and the	DW1		
0.1/04		notor system disfunction in the areas of			
C_K01		traumatology, sports medicine, rheumatology,			
	neurology and neurosurgery, paediatrics, children's neurology to				
		ve use of physiotherapeutic management;	DW2		
		diagnostic principles and general rules and	DW2		
		methods of management of the most common motor system			
C_K02	disfunctions in the areas of: orthopaedics, traumatology, sports				
		medicine, rheumatology, neurology and paediatrics, children's neurology to ensure effective use of physiotherapeutic			
management;		moure effective use of physiotherapeutic			
	management,				
	1		<u> </u>		

C_S01	Student can take the history and to elicit basic information about the child's development and health condition;		7
C_S02	carry out clinical assessment of posture, including measurements	DU22)
0_502	with Bunnell scoliometer, point and biostereometric postural		_
	analysis and to interpret the results;		
C_S03	determine on the basis of spinal X-ray: the Cobb angle and the	DU23	3
0_000	rotation angle; applying appropriate evaluation methods, asses the		
	bone age with the use of Risser test, interpret the results and		
	qualify scoliosis for appropriate physiotherapeutic management;		
C_S04	plan, select depending on the clinical and functional condition of a		
5_00	patient, and ensure physiotherapeutic management in children		
	and juveniles with diseased of the motor system, such as:		
	congenital failures, posture disorders and avascular bone necrosis;		
C_S05	instruct children's minders about the so-called motor care, as well	DU27	7
	as the children and their caregivers in the area of exercise		
	performed at home and the use of medical products as well as the		
	use of daily appliances for therapeutic purposes;		
C_S06	design and select the circulatory-respiratory exercise in children	DU43	3
_	and juveniles, depending on the patient's clinical and functional		
	condition and instruct the children's and juveniles' caregivers		
	about performance of such exercise;		
C_S07	apply the principles of good communication with the patient and	DU47	7
	communicate with other members of the therapeutic team;		
C_S08	design, select and modify the rehabilitation programmes for	DU49)
	patients with different disfunctions of the motor system and		
	internal diseases, depending on the clinical, functional and mental		
	condition.		
20. Forms and topics	s of classes		Number
			of hours
21.1. Lectures			16
	rious diseases occurring in developmental age. Current guidelines -		6
literature review.			0
Congenital and acqu	ired diseases that cause locomotor dysfunction as an interdisciplinary		5
· · · · · · · · · · · · · · · · · · ·	es comprehensive rehabilitation.		
· · · · · · · · · · · · · · · · · · ·	piratory and cardiovascular diseases.		5
22.2. Seminars			14
	ic functional testing. Methods for assessing exercise capacity in		7
pediatrics.			
	and secondary prevention in pediatrics. Selected special methods of		7
physiotherapy in dev			
23.3. Practical class			26
	peutic methods used in respiratory and cardiovascular diseases as wel	l as	9
	and posture defects.		
	pecificity of functional tests (e.g. spirometry) in pediatric patients.		9
_	arity of development and functional assessment at various stages of		8
	sment of physical fitness and degree of independence.		
24.4. Without teach			18
Normal and abnorm	al psychomotor development.		6
			_
Etiology of pediatric			6
Etiology of pediatric	respiratory diseases. Il disorders in children and infants.		6

- **1.** Dobosiewicz, Krystyna. Boczne Idiopatyczne Skrzywienia Kręgosłupa. Katowice: Śl. Akad. Med., 1997.
- 2. Durmała, Jacek., and Bartosz. Wnuk. Kinezyterapia Skolioz Idiopatycznych Opis Metody Trójpłaszczyznowej Czynnej Korekcji Sterowanej Oddechem W Symetrycznych Pozycjach Wyjściowych (Metoda Dobosiewicz – DoboMed). Katowice: Śląski Uniwersytet Medyczny w Katowicach, 2015.
- **3.** Jacobsen, J. Ramsoe. Wrodzone Wady Serca. Warszawa: Stowarzyszenie Heart to Heart, 1993. Print. Biblioteka Stowarzyszenia Heart to Heart ; T. 1.
- **4.** Marciniak, Witold., Andrzej. Szulc, and Wiktor Dega. Wiktora Degi Ortopedia I Rehabilitacja. Warszawa: Wydaw. Lekarskie PZWL, 2003.
- **5.** Matyja, Małgorzata. Neurorozwojowa Analiza Wad Postawy Ciała U Dzieci I Młodzieży. Katowice: Wydaw. Akademii Wychowania Fizycznego W Katowicach, 2012.
- **6.** Matyja, Małgorzata., and Anna Gogola. Edukacja Sensomotoryczna Niemowląt. Wyd. 4. ed. Katowice: Wydaw. Akademii Wychowania Fizycznego W Katowicach, 2010.
- **7.** Rosławski, Adam, and Marek Woźniewski. Fizjoterapia Oddechowa. Wyd. 3 Uzup. ed. Wrocław: Wydaw. Akademii Wychowania Fizycznego We Wrocławiu, 2001.
- 8. Tecklin, Jan Stephen. Fizjoterapia Pediatryczna. Warszawa: Wydaw. Lekarskie PZWL, 1996.

26. 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