



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)

General Information

Code		Title	Rehabilitation
Module type			<i>Obligatory</i>
Faculty			<i>Faculty of Medicine</i>
Field of study			<i>medicine</i>
Major			<i>Not applicable</i>
Level of study			<i>II level/long-cycle (S2J)</i>
Mode of study			<i>intramural</i>
Year of study			<i>V</i>
Semester			<i>Winter/summer</i>
ECTS points			<i>1</i>
Types of training			<i>Practical, 15 hours</i>
Tutor responsible for the module			Dr n. med. Iwona Rotter
Tutors conducting the subject			dr n. med. Iwona Rotter: iwona.rotter@pum.edu.pl Dr n. zdr. Hanna Mosiejczuk: hanna.mosiejczuk@pum.edu.pl Dr n. zdr. Magdalena Ptak Mgr Aleksandra Szylińska Mgr Mateusz Pytlak Mgr Agnieszka Lubińska Mgr Agnieszka Turoń-Skrzypińska
WWW			https://www.pum.edu.pl/wydzialy/wydzial-nauk-o-zdrowiu/samodzielna-pracownia-rehabilitacji-medycznej
Language			English

Detailed information

Module objectives		<ul style="list-style-type: none"> – to introduce students with disabilities (concepts and definitions of disability along with elements of Medical certificate on the degree of disability) – to provide students with basic knowledge about the objectives and tasks of rehabilitation of disabled people with including sport for the disabled people – to introduce with the elements of a comprehensive rehabilitation process at different stages of therapeutic and socio-occupational rehabilitation of persons with disabilities in the inpatient rehabilitation and ambulatory rehabilitation – to present a different methods of rehabilitation – to discuss with rehabilitation in diseases of the following systems: cardiovascular, respiratory, nervous and motor system and rehabilitation of oncology – to present the specifics of rehabilitation in developmental age and geriatrics – to introduce students with the orthopedic equipment, prosthetics and orthotics – development of the student's ability to use the knowledge from the field of rehabilitation in various medical specialization
Prerequisite /essential requirements/	Knowledge	Knowledge from previous years of study
	Skills	Know how to perform a interview and physical examination
	Competences	Student manifests respect for the patient, persons with disabilities, members of the therapeutic team, know yourself skills and limitations

Description of the learning outcomes for the subject /module			
Number of learning outcome	Student, who has passed the (subject) Knows /is able to /can:	SYMBOL (referring the standards) EKK	Method of verification of learning outcomes
W01	knows physical principles behind for selected therapeutic techniques incl. ultrasounds and radiation	K_B.W9	credit
W02	knows the bases for excitation and conduction in nervous system and higher nervous activities as well as the physiology of striated and non-striated muscles and blood functions	K_B.W24	credit
W03	knows aging mechanisms of human body	K_B.W28	credit
W04	knows pathomorphological terminology	K_C.W26	credit
W05	knows basic principles of pharmacotherapy	K_C.W37	credit
W06	understands importance of health, disease, disability and senility in terms of social attitudes, social consequences of disease and disability and socio-cultural barriers;	K_D.W3	credit

	knows current concept of life quality affected by health state		
W07	knows rules of teamwork	K_D.W15	credit
W08	understands cultural, ethnic and national conditions for human behavior	K_D.W16	credit
W09	knows and understands the course and symptoms of senescence as well as complex geriatric evaluation and interdisciplinary care with regard to elderly people	K_E.W8	credit
W10	knows and understands threats connected with hospitalization of the elderly people	K_E.W11	credit
W11	knows and understands basic rules of management of the care of elderly people burden on care of elderly person	K_E.W12	credit
W13	knows and distinguishes basic signs of neurological syndromes	K_E.W13	credit
W14	knows rules of palliative procedure with regard to patients in terminal state	K_E.W28	credit
W15	knows rules of treatment of pain, incl. chronic and cancer-related pain	K_E.W29	credit
W16	knows and understands the concepts of physical disability and handicap	K_E.W30	credit
W17	knows importance and methods used in medical rehabilitation	K_E.W31	credit
U01	uses principles of physics to explain influence of external factors, such as temperature, acceleration, pressure, electromagnetic field and ionizing radiation on the human organism and its components	K_B.U1	credit
U02	conducts simple tests in order to evaluate the human organism as a system of stable regulation (load test, exercise test); interprets numerical data on basic physiological variables	K_B.U8	credit
U03	informs patients about objectives, course and possible risks with regard to proposed diagnosis or therapeutic procedure and secures their informed consent	K_D.U6	credit
U04	takes history interview of adult patient	K_E.U1	credit
U05	plans diagnostics, therapeutic and preventive procedures	K_E.U16	credit
U06	qualifies patients for home and hospital treatment	K_E.U20	credit
U07	evaluates functionality of disabled patients	K_E.U22	credit
U08	can suggest rehabilitation scheme for most frequent diseases	K_E.U23	credit
U09	plans specialist consultations	K_E.U32	credit
U10	keeps medical documentation	K_E.U38	credit
K01	co-operates with team members; can co-operate within a group and take different roles	K_K04	credit
K02	is aware of his/her own limitations and knows when to refer to experts	K_K17	credit
K03	respects patients/customers/social groups and makes decisions in their best interest	K_K20	credit

Matrix presenting the learning outcomes of the subject/module in relation to the form of classes

Number of	Student, who has passed the	Types of training
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learning outcome	(subject) Knows /is able to /can:								
		Lecture	Seminar	Laboratory classes	Project work	Clinical classes	Classes	Practical classes	Other
W01	knows physical principles behind for selected therapeutic techniques incl. ultrasounds and radiation						X		
W02	knows the bases for excitation and conduction in nervous system and higher nervous activities as well as the physiology of striated and non-striated muscles and blood functions						X		
W03	knows aging mechanisms of human body						X		
W04	knows pathomorphological terminology						X		
W05	knows basic principles of pharmacotherapy						X		
W06	understands importance of health, disease, disability and senility in terms of social attitudes, social consequences of disease and disability and socio-cultural barriers; knows current concept of life quality affected by health state						X		
W07	knows rules of teamwork						X		
W08	understands cultural, ethnic and national conditions for human behavior						X		
W09	knows and understands the course and symptoms of senescence as well as complex geriatric evaluation and interdisciplinary care with regard to elderly people						X		
W10	knows and understands threats connected with hospitalization of the elderly people						X		
W11	knows and understands basic rules of management of the care of elderly people burden on care of elderly person						X		
W13	knows and distinguishes basic signs of neurological syndromes						X		
W14	knows rules of palliative procedure with regard to patients in terminal state						X		
W15	knows rules of treatment of pain, incl. chronic and cancer-related pain						X		
W16	knows and understands the concepts of physical disability and handicap						X		
W17	knows importance and methods used in medical rehabilitation						X		
U01	uses principles of physics to explain influence of external factors, such as temperature, acceleration, pressure, electromagnetic field and ionizing radiation on the human organism and its components						X		
U02	conducts simple tests in order to evaluate the human organism as a system of stable regulation (load test,						X		

	exercise test); interprets numerical data on basic physiological variables								
U03	informs patients about objectives, course and possible risks with regard to proposed diagnosis or therapeutic procedure and secures their informed consent						X		
U04	takes history interview of adult patient						X		
U05	plans diagnostics, therapeutic and preventive procedures						X		
U06	qualifies patients for home and hospital treatment						X		
U07	evaluates functionality of disabled patients						X		
U08	can suggest rehabilitation scheme for most frequent diseases						X		
U09	plans specialist consultations						X		
U10	keeps medical documentation						X		
K01	co-operates with team members; can co-operate within a group and take different roles						X		
K02	is aware of his/her own limitations and knows when to refer to experts						X		
K03	respects patients/customers/social groups and makes decisions in their best interest						X		

Module (subject) contents		
Symbol of teaching programme	Content of teaching programme	References to learning outcomes
TK01	Basic issues of rehabilitation, disability (1h)	K_B.W9, K_B.W28, K_D.W3, K_D.W16, K_E.W30, K_E.W31, K_D.U6, K_E.U1, K_E.U16, K_E.U32 K_K04, K_K17, K_K20
TK02	Physiotherapy in oncology (2h)	K_B.W28, K_C.W37, K_D.W3, K_E.W8, K_E.W11, K_E.W12, K_E.W13, K_E.W28, K_E.W31, K_B.U8, K_D.U6, K_E.U1, K_E.U16, K_E.U20, K_E.U22, K_E.U23, K_E.U38 K_K04, K_K17, K_K20
TK03	Physiotherapy in musculoskeletal system (2h)	K_B.W24, K_B.W28, K_C.W37, K_D.W3, K_E.W8, K_E.W11, K_E.W12, K_E.W13, K_B.U8, K_D.U6, K_E.U1, K_E.U16,

		K_E.U20, K_E.U22, K_E.U23, K_E.U38 K_K04, K_K17, K_K20	
TK04	Physiotherapy in cardiovascular disease (3h)	K_B.W28, K_C.W37 K_D.W3, K_E.W8, K_E.W11, K_E.W12, K_E.W13, K_E.W31, K_B.U8, K_D.U6, K_E.U1,K_E.U16, K_E.U20, K_E.U22, K_E.U23, K_E.U38 K_K04, K_K17, K_K20	
TK05	Physical Therapy (3h)	K_B.W9, K_B.W24, K_B.W28, K_C.W26, K_C.W37, K_E.W8, K_E.W12, K_E.W13, K_E.W28, K_E.W31, K_B.U1, K_D.U6, K_E.U1,K_E.U16, K_E.U23, K_E.U38 K_K04, K_K17, K_K20	
TK06	Prosthetics and orthotics (2h)	K_B.W28 K_D.W3, K_E.W12, K_E.W28, K_E.W31, K_B.U8, K_D.U6, K_E.U16, K_E.U22, K_E.U23, K_E.U38	
TK07	Sport for disabled people (1)	K_D.W3, K_D.W15, K_E.W31, K_D.U6, K_E.U1, K_E.U16, K_E.U22, K_E.U23, K_E.U38	
TK08	Credit (1)		
References and educational resources			
1. Jackson C. Tan: Practical Manual of Physical Medicine and Rehabilitation: Diagnostics, Therapeutics, and Basic Problems			
2. Ian B. Maitin, Ernesto Cruz: CurrentDiagnosis & Treatment: Physical Medicine & Rehabilitation			
3. Seymour Ron: Prosthetics and Orthotics: Lower Limb and Spine			
4. Donna L. Frownfelter, Elizabeth W. Dean: Cardiovascular and Pulmonary Physical Therapy			
5. Michael Stubblefield: Cancer Rehabilitation: Principles and Practice			
6. Linda Mastandrea Sports and the Physically Challenged: An Encyclopedia of People, Events, and Organizations			
Student’s workload (balance sheet of ECTS points)			
Form of student’s activity (in-class participation; activeness, produce a report, etc.)	Workload [h]		
	Tutor	Student	Average
activities that require direct participation of tutors		15	
Preparation to the classes		3	
Reading of the indicated/specified literature			

Report writing/project making			
Time spent to prepare for the exam			
Other		2	
Student's workload in total			
ECTS points for the subject	1		
Remarks at the end			

Methods of assessment, for example:

E – exam- problem resolving

S – verifying of practical skills

R – report

D – discussion

P – presentation

Others-