



Syllabus of the compulsory discipline “Physical Rehabilitation and Sports Medicine”

1. General Information	
Faculty	Medical
Programme (industry, specialty, level of higher education, form of education)	22 Healthcare, 222 Medical, the second (master) level of higher education, full-time education
Academic year	2022/2023
Subject, code (e-mail address on the website of LNMU named after Danylo Halytsky)	Physical rehabilitation and Sports Medicine, MC 31, http://new.meduniv.lviv.ua/kafedry/kafedra-fizychnogo-vyhovannya-i-sportyvnoyi-medytsyny/
Department (name, address, phone, e-mail)	Department of Physical education and Sports medicine 79010, Lviv, 69 Pekarska, 5a Shimzeriv +380 (32) 276-78-03, kaf_sportmed@meduniv.lviv.ua
Head of the Department (e-mail)	Docent, c.b.s. Kunynets O.B. +380 (32) 276-78-03, kaf_sportmed@meduniv.lviv.ua
Year of study	4 year
Semester	7/8semester
Type of the Subject/Module	obligatory
Teachers (names, surnames, scientific degrees and titles of teachers who teach the discipline, contact e-mail)	as. Marusiak S. V. (avrielle1803@gmail.com) as. Kozytska O.I. (okozytska@gmail.com)
Erasmus yes / no (availability of the discipline for students within the Erasmus +)	No
Responsible for Syllabus	as. Marusiak S. V. (avrielle1803@gmail.com)
Credits ECTS	2,5 credits
Hours (lectures / practical classes / independent work of students)	8/30/37
Language of Instruction	English
Consultations	According to the schedule
2. Brief review of the subject	
<p>Physical rehabilitation and sports medicine teaches to use effectively and in a timely manner the means of physical rehabilitation in the complex rehabilitation treatment of patients with medical profile; provides prevention of pre-pathological and pathological conditions that occur during the irrational use of exercise; teaches the use of individual recreational and health modes of physical activity for the prevention of occupational diseases in medical practise. At the current stage, the discipline "Physical rehabilitation and sports medicine" is gaining more and more importance for the high-quality comprehensive training of future doctors. Especially on issues related to the use of physical culture and physical rehabilitation for quick recovery of health, preservation of quality of life and prevention or elimination of various complications in patients. The WHO expert committee determined that the goal of rehabilitation is to prevent disability during treatment of diseases and help the patient achieve the maximum physical, mental, professional, social and economic fulfillment that he is capable of within the limits of the existing disease.</p> <p>The leading means of physical rehabilitation is physical therapy (PTh). Physical therapy is the most active, purposeful and effective component of rehabilitation and preventive measures, which has no equal analogues in terms of its natural and biological influence and therefore plays the main role among the means of non-medicinal restorative treatment. Underestimation and insufficient or untimely use of means of physical rehabilitation in the complex treatment of patients often leads to a significant increase in the terms of their recovery, the occurrence of severe complications, and even to a permanent loss of work capacity. Physical therapy and other physical factors should not be additional means, but an integral component of complex treatment during all periods of rehabilitation. Early, timely prescription of physical rehabilitation is very important, especially for diseases of the cardiovascular, respiratory, digestive, endocrine, and nervous systems, as well as after injuries, surgical interventions, in pediatrics, obstetrics, and gynecology. The appointment of special physical exercises during conservative treatment deserves special attention, as well as at the stages of pre- and postoperative intervention, which are selectively combined with strengthening and breathing exercises, hardening means and preformed physical factors taking into account: the clinical course of the disease (phase,</p>	

stage, degree of functional disorders), concomitant pathology, as well as taking into account individual characteristics of the body (age, gender, functional abilities of the main life support systems, level of physical fitness and tolerance to physical exertion, state of protective systems) at various stages of physical rehabilitation; Equally important is the use of physical culture and rehabilitation for the prevention or functional treatment of diseases, especially postural disorders, scoliosis, osteochondrosis of the spine, varicose veins of the lower extremities, diseases of the circulatory system, respiratory organs and other pathologies. Therefore, high-quality training of a doctor is impossible without perfect mastery of the basics of physical rehabilitation and sports medicine.

3. Aim of the Subject

1. The purpose of the discipline is to form students' holistic understanding of the possibilities, forms and methods of medical control in physical rehabilitation, understanding the importance of timely use of physical rehabilitation in the treatment and rehabilitation of dental patients, as well as in the prevention of occupational diseases by dentists.

2. Goals follow from the aim and are determined by the content of theoretical knowledge, methodological training, practical skills and abilities that must be mastered by a specialist.

- define key concepts of physical rehabilitation and sports medicine as a clinical discipline.
- be able to analyze and predict the impact of physical activity on the human body according to medical control and prescribe physical regimens and means of physical rehabilitation according to health, the nature of functional disorders of the system and organs of human body, functional abilities and exercise tolerance.
- select and apply methods of physical rehabilitation in the complex treatment of dental patients for faster recovery, preservation of quality of life and prevention or elimination of the consequences of the pathological process.
- be able to evaluate the effectiveness of physical rehabilitation.

General competencies:

Ability to abstract thinking, analysis and synthesis.

Ability to learn and master modern knowledge.

Ability to apply knowledge in practical situations.

Knowledge and understanding of the subject area and understanding of professional activity.

Ability to adapt and act in a new situation.

Ability to make informed decisions.

Ability to work in a team.

Ability to interpersonal interaction.

Ability to use information and communication technologies.

Ability to search, process and analyze information from various sources.

Determination and persistence in relation to assigned tasks and assumed responsibilities.

Awareness of equal opportunities and gender issues.

The ability to realize one's rights and responsibilities as a member of society, to realize the values of civil (free democratic)

society and the need for its sustainable development, the rule of law, rights and freedoms of man and citizen in Ukraine.

The ability to preserve and multiply moral, cultural, scientific values and societal achievements based on an understanding of history and patterns

development of the subject area, its place in the general system of knowledge about

nature and society and in the development of society, technology and technology,

use different types and forms of motor activity for active recreation and leading a healthy lifestyle.

Professional competences of the specialty (PC):

Ability to collect medical information about the patient and analyze clinical data.

Ability to determine the necessary list of laboratory and instrumental studies and evaluation of their results.

Ability to establish a preliminary and clinical diagnosis of the disease.

The ability to determine the necessary mode of work and rest at treatment and prevention of diseases.

The ability to determine the nature of nutrition during treatment and disease prevention.

Ability to determine the principles and nature of treatment and disease prevention.

Ability to diagnose emergency conditions.

Ability to determine tactics and provide emergency medical care.

Ability to carry out medical evacuation measures.

Ability to perform medical manipulations.

Ability to solve medical problems in new or unfamiliar people

environments in the presence of incomplete or limited information taking into account aspects of social and ethical responsibility.

The ability to conduct an examination of working capacity.

Ability to maintain medical documentation, including electronic forms.

Clearly and unambiguously convey your own knowledge, conclusions and arguments on health care issues and related issues to specialists and non-specialists,

in particular to persons who are studying.
Adherence to ethical principles when working with patients and laboratory animals.
Observance of professional and academic integrity, bear responsibility for the reliability of the obtained scientific results.

4. Course details

To successfully learn and master key competencies in the discipline "Physical Rehabilitation and Sports Medicine" requires basic knowledge of such disciplines as human anatomy, physiology, pathological anatomy, pathophysiology, pharmacology, biochemistry, propaedeutics of internal medicine, propaedeutics of pediatrics, general surgery, clinical anatomy, operative surgery, medical psychology, traumatology and orthopedics, obstetrics and gynecology, neurology, extreme and emergency medical care, manual therapy, physiotherapy, balneology and rehabilitation, information technology in medicine, basics of reflexology.

5. Results of the Course

1. Form goals and determine the structure of personal activity.
2. To be aware of and be guided in one's activities by civil rights, freedoms and duties, to raise the general educational cultural level.

Results

Code	Results	Matrix of competencies
The code is created when filling the syllabus (category: Zn-knowledge, Mind-Skills, C-competence, AR - autonomy and responsibility)	Learning outcomes determine that the student must know, understand and be able to perform, after completing the discipline. Learning outcomes follow from the set learning goals. To enroll in the discipline, it is necessary to confirm the achievement of each learning outcome.	Symbol of the Program Program Result Code in the Higher Education Standard
Zn-1	Determine the purpose, tasks and main sections of a complex medical examination of persons engaged in physical culture or sports;	PR-1 PR-2 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-17 PR-18
Zn-2	Collect anamnesis (general and sports) and conduct a medical examination when solving issues admission to physical exercises and exercise therapy;	PR-1 PR-2 PR-4 PR-5 PR-6 PR-7 PR-8 PR-18
Zn-3	Determine the physiological criteria of fitness and physical development;	PR-1 PR-5 PR-10 PR-24 PR-25 PR-28
Zn-4	Master the methods of assessing physical development;	PR-1 PR-2 PR-3 PR-6 PR-7 PR-8 PR-9
Zn-5	Provide recommendations on harmonization or correction of physical development depending on its features and shortcomings;	PR-1 PR-2 PR-3 PR-21 PR-22 PR-25 PR-26 PR-27
Zn-6	Know the medical documentation: medical control card of a physical athlete (form 061-u and form 062-u).	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-10 PR-15 PR-18
Zn-7	To have the theoretical basis of conducting functional tests and their significance in the functional diagnosis of the cardiovascular, respiratory and autonomic nervous systems;	PR-1 PR-5 PR-6 PR-7 PR-10 PR-21 PR-25 PR-27
Zn-8	Give the classification of functional samples;	PR-1 PR-21 PR-22 PR-25 PR-27
	Describe the functional indicators of fitness;	PR-1 PR-21 PR-22 PR-25

Zn-9		PR-27
Zn-10	Interpret the concept of "functional state" of the body and list the factors affecting it;	PR-1 PR-2 PR-3 PR-21 PR-22 PR-24 PR-25 PR-27
Zn-11	Specify the list of diseases and conditions in which physical education and sports are contraindicated. Age limits for the admission of children to sports.	PR-1 PR-2 PR-3 PR-21 PR-22 PR-24 PR-25
Zn-12	Determine the target dates for resuming physical education and sports after illnesses.	PR-1 PR-2 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9, PR-10 PR-25
Zn-13	Learn the theoretical background, principles of conducting and evaluating the results of functional tests used in sports medicine.	PR-4 PR-5 PR-7 PR-18
Zn-14	Describe the physiological mechanisms of recovery processes, the classification of recovery means.	PR-1 PR-2 PR-3 PR-21 PR-22 PR-25 PR-27 PR-28
Zn-15	To know the mechanisms of influence of biologically active substances for stimulation and maintenance of physical performance.	PR-1 PR-2 PR-3 PR-21 PR-22 PR-25 PR-27
Zn-16	Specify prohibited classes of substances and prohibited methods of stimulating performance (doping); forms, means and methods of physical rehabilitation, mechanisms of therapeutic effect of physical rehabilitation means;	PR-1 PR-2 PR-3 PR-4 PR-17 PR-21 PR-24 PR-25 PR-26
Zn-17	Describe the regimes of mobile activity and dosage of physical exercises at the inpatient, sanatorium-resort and polyclinic stage of rehabilitation with methods of controlling the effectiveness of the prescribed means;	PR-1 PR-3 PR-5 PR-6 PR-7 PR-8 PR-10 PR- 21 PR-24 PR-25 PR-27
Zn-18	Know the medical documentation: a card of the physical therapy office f.042-u.	PR-1 PR-2 PR-3 PR-4 PR-21
Zn-19	Know the concepts, main directions, periods and stages of FR. Means of Physical Rehabilitation.	PR-1 PR-2 PR-3 PR-4 PR-21
Zn-20	Classification and mechanism of therapeutic action of physical exercises.	PR-1 PR-2 PR-3 PR-4 PR-6 PR-7 PR-8 PR-

Zn-21	Modes of motor activity.	10 PR-21 PR-25 PR-28 PR-1 PR-25 PR-26 PR-27 PR-28
Zn-22	Indications for the assignment of movement modes.	PR-1 PR-25 PR-26 PR-27 PR-28
Zn-23	To characterize the phases of rehabilitation, modes of motor activity, forms, methods and programs of rehabilitation for diseases of internal organs;	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-10 PR-14 PR-16 PR-18 PR-19 PR-21 PR-22
Zn-24	Know the indications and contraindications for prescribing physical rehabilitation for diseases of internal organs.	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9
Zn-25	Describe the reasons that contribute to the formation of muscle-joint contractures in central and peripheral paralysis (paresis), the mechanisms of action of drugs (FR) on agonist and antagonist muscles;	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-10
Zn-26	To master the principles of providing a pose during treatment with a position.	PR-1 PR-8 PR-9 PR-14 PR-15 PR-16 PR-17 PR-19
Zn-27	Provide a clinical and physiological rationale for the use of physical rehabilitation tools for surgical and traumatological diseases;	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-14 PR-15 PR-16 PR-17
Zn-28	Know the indications and contraindications for prescribing exercise therapy in surgery;	PR-1 PR-2 PR-3 PR-21 PR-22 PR-25 PR-26 PR-27
Zn-29	To characterize the main tasks and forms of exercise therapy in the preoperative and postoperative periods;	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-10

Zn-30	Describe the features of the use of exercise therapy during surgical interventions on the organs of the abdominal and thoracic cavities and injuries of various types, depending on the movement regime and the course of the postoperative period;	PR-1 PR-2 PR-3 PR-4 PR -5 PR -6 PR-7 PR-8 PR -9 PR-14 PR-15 PR-16 PR-17 PR-18
Zn-31	Indicate the specifics of individual physical therapy techniques for surgical diseases and injuries.	PR-1 PR-2 PR -3 PR-21 PR-22 PR-25
Zn-32	Learn the specifics of physical rehabilitation techniques for women with a normal course or with a pathology of pregnancy, depending on the trimester, during childbirth, the postpartum period, as well as during operative resolution.	PR -1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-10 PR-17 PR-18 PR-19 PR-21
Zn-33	To learn the peculiarities of physical rehabilitation methods in gynecological practice.	PR -1 PR -2 PR-3 PR -4 PR-5 PR -6 PR-7 PR-8 PR-9 PR-10 PR-17 PR-18 PR-19 PR-21
Zn-34	To know the physiological features of the child's body and the features of physical education of infants and young children	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-17 PR-18 PR-19 PR-21
Zn-35	Describe the tasks and features of therapeutic gymnastics in young children with diseases of various genesis.	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-10 PR-15 PR-17 PR-18 PR-19 PR-21
Zn-36	Know the types of massage, methods of conducting, indications and contraindications for use.	PR-1 PR-2 PR-3 PR-17 PR-21 PR -25 PR -27
Zn-37	The technique of performing sacred types of massage. The concept of conventional massage unit.	PR -1 PR-2 PR -3 PR-17 PR-27 PR-28
S-1	Be able to collect general and sports history and medical examination of organs and systems;	PR-1 PR-2 PR -3 PR -4 PR -5 PR-6 PR -7 PR-8 PR-9

S-2	Interpret the results of clinical, laboratory (blood and urine tests) and instrumental (ECG, FLG) research methods;	PR-1 PR-2 PR-3 PR-21 PR-22 PR-25 PR-27
S-3	The ability to perform somatoscopy and anthropometric measurements of indicators that determine the physical development of a person;	PR-1 PR-2 PR -3 PR-22 PR -25 PR-26
S-4	Be able to assess physical development with the provision of qualified recommendations and appointments for its improvement.	PR-1 PR-2 PR -3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-25
S-5	Master the conduct of functional tests and draw graphs of changes in indicators of the main functional systems in the process of testing with analysis of the received data;	PR-1 PR-2 PR -3 PR-4 PR-5 PR-6 PR-7 PR-25 PR-27
S-6	Provide conclusions based on the results of functional testing;	PR-1 PR-2 PR -3
S-7	Master the skills of working with special medical documentation when conducting functional tests;	PR-1 PR-2 PR-3 PR-22 PR-25
S-8	Analyze the results of a comprehensive medical examination.	PR-1 PR-2 PR -3 PR-4 PR-5 PR-6 PR -7
S-9	Allocate persons engaged in physical culture into appropriate medical groups.	PR-1 PR-2 PR-3 PR -4 PR-5 PR-6 PR-7 PR-8
S-10	Be able to explain the meaning of the recovery process during training.	PR-1 PR-2 PR-21 PR-25
S-11	To explain the essence of rational nutrition as a factor in restoring working capacity.	PR-1 PR-2 PR-21 PR-25
S-12	To characterize the main pharmacological means of preventing overfatigue and restoring sports performance.	PR-1 PR-2 PR-21 PR-25
S-13	To be able to explain the essence of hardening as a factor in disease prevention.	PR-1 PR-2 PR-21 IIPR-25 PR-27

S-14	Master the drawing up of schemes for the pharmacological support of health training.	PR-1 PR-2 PR-21 PR-25 PR-27
S-15	To characterize the schemes of rational nutrition during health training, to correctly determine the initial level of the functional state of the patient's body systems (cardiovascular, respiratory, nervous, muscular),	PR-1 PR-2 PR -3 PR -4 PR -5 PR -6 PR-7 PR-8 PR -9
S-16	Be able to conduct anthropometric studies and interpret the results of clinical and laboratory research methods, correctly choose and correctly prescribe forms, methods and means of physical rehabilitation, give a clinical interpretation and a medical conclusion regarding the received treatment results.	PR-1 PR-2 PR -3 PR -4 PR-5 PR -6 PR-7 PR-8 PR-9 PR-10 PR-16 PR-17 PR-18 PR-21 PR-22
S-17	Prescribe modes of motor activity, draw up programs, describe forms and methods of physical rehabilitation for diseases of internal organs; To be able to use passive movements in the upper and lower limbs, according to the tone of the agonist and antagonist muscles. Describe the effect of using FR in complex treatment.	PR-1 PR-2 PR -3 PR -4 PR-5 PR -6 PR-7 PR-8 PR-9 PR-14 PR-15 PR-16 PR-17 PR-18 PR-19 PR-21
S-18	Choose the optimal mode of motor activity for patients with a surgical and traumatological profile;	PR-1 PR-2 PR -3 PR -4 PR -5 PR-6 PR-7 PR-8 PR-9 PR-10 PR-14 PR-15 PR-16 PR-17 PR-18 PR-19 PR-21
S-19	Plan PR measures and apply physical therapy techniques during surgical interventions on the organs of the abdominal and thoracic cavities in the preoperative and postoperative periods and apply physical therapy techniques in traumatology.	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-10 PR-14 PR-15 PR-16 PR-17 PR-18 PR-19 PR-21
S-20	Prescribe physical rehabilitation measures and apply therapeutic physical culture methods for women with a normal course or with pathology of pregnancy, depending on the trimester, during childbirth, the postpartum period, as well as during operative delivery.	PR-1 PR-2 PR-3 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-10 PR-14 PR-15 PR-16 PR-17 PR-18 PR-21 PR-25 PR-27 PR-1 PR-2 PR-3 PR-4 PR-5 PR-6

S-21	Plan physical rehabilitation measures and apply therapeutic physical culture methods for the most common gynecological diseases.	PR-7 PR-8 PR-9 PR-10 PR-14 PR-15 PR-16 PR-17 PR-18 PR-21 PR-25 PR-27
S-22	Fill in the card of a patient with the corresponding gynecological pathology, who is being treated in an exercise therapy room, a restorative treatment department or a rehabilitation center (form No. 42/o)	PR-1 PR-2 PR-4 PR-5 PR-6 PR-7 PR-8 PR-9 PR-25 PR-27
S-23	To master an individual approach to each child, taking into account the age of the child, to be able to combine physical exercises of general action and of a special nature	PR-1 PR-2 PR-5 PR-6 PR-7 PR-25 PR-27
S-24	Preparation for massage.	PR-1 PR-2 PR-3 PR-4 PR-25
S-25	Master the technique of various types of massage.	PR-1 PR-2 PR-3 PR-4 PR-25
C-1	Establish interpersonal relationships to effectively perform tasks and responsibilities.	PR-1 PR-2 PR-3 PR-21 PR-22 PR-25 PR-26 PR-27 PR-28
C-2	Present the results of scientific research in writing (in the form of abstracts, scientific publications, etc.) and orally (in the form of reports, presentations).	PR-1 PR-2 PR-3 PR-21 PR-22 PR-25 PR-26 PR-27 PR-28
AR-1	Independently plan and conduct research.	PR-1 PR-2 PR-3 PR-21 PR-22 PR-25 PR-26 PR-27 PR-28
AR-2	Take personal responsibility for the results of your own professional activities.	PR-1 PR-2 PR-3 PR-21 PR-22 PR-25 PR-26 PR-27 PR-28
AR-3	Adhere to generally accepted norms of behavior and morality in interpersonal relationships.	PR-1 PR-2 PR-3 PR-21 PR-22 PR-25 PR-26 PR-27 PR-28

6. Format and scope of course

<i>Course format (specify full-time or part-time)</i>	Full-time	
Kind of classes	Number of hours	Number of groups
Lectures	8 hours	
practic	30 hours	
Seminars	-	
independent work	37 hours	

7. Topics and content of the course

Code Kind of classes	Topic	Learning content	Learning outcome code	Teacher
L-1	Modern ideas about sporting medicine. A concept about medical control. Modern methods of inspection of athletes and	Physical rehabilitation and sports medicine in the historical aspect. Modern ideas about physical rehabilitation and sports medicine, and their importance in the health care system. The effect of physical activity of varying intensity on the human body. Purpose, tasks and content of	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, Zn-8, Zn-9, Zn-10, Zn-11, Zn-12 S-4, S-5, S-6, S-7, S-8, S-9 C-1, C-2, AR-2,	as.Kozytska O.I. as. Marusiak S.V.

	sportsmen. An estimation of functional capabilities of organism of sportsmen.	medical control during exercise. Comprehensive methods of medical examination of persons engaged in physical exercises. Human physical development and factors that determine it. The concept of functional tests. The main tasks of functional research. General requirements for conducting functional tests.	AR-3	
L-2	Physical capacity and its relationship with health indicators.	The concept of general physical capacity, aerobic productivity and tolerance to physical exertion. Direct and indirect methods of determining physical capacity. Functional strength tests (load tests). Indications and contraindications for the appointment of loading tests and conditions requiring special attention during testing. Conditions of testing. Types and initial magnitude of loads. Clinical and functional signs of the threshold of tolerance to physical exertion. Methods of conducting submaximal and maximal functional tests.	Zn-6, Zn-7, Zn-8, Zn-9, Zn-10, Zn-11, Zn-12, Zn-13, Zn-15, S-6, S-7, S-8, S-9, C-1, C-2, AR-2, AR-3	as. Kozytska O.I. as. Marusiak S.V.
L-3	General basics of physical rehabilitation. Physical therapy as the main means of PR.	The concept of "rehabilitation", the main directions (aspects) of rehabilitation. Physical rehabilitation (PR), its general principles. Periods and stages of FR. Federal funds. Therapeutic physical culture (PE) as the main means of PR. Peculiarities of the physical therapy method. Means of exercise therapy. Mechanisms of therapeutic effect of physical exercises. Forms, methods and methodical principles of exercise therapy. Classification of physical exercises. Indications and contraindications for the appointment of therapeutic gymnastics. Basic principles of selection and dosage of physical exercises. Modes of motor activity. Indications for the appointment of movement modes at the inpatient, sanatorium and outpatient polyclinic stages of rehabilitation, their tasks and content.	Zn-6, Zn-19, Zn-20, Zn-21, Zn-22, S -4, S -5, S-6, S-16, S-17, S-18, C-1, C-2, AR-2, AR-3	as. Kozytska O.I. as. Marusiak S.V.
L-4	Physical rehabilitation in the internal medicine clinic.	Clinical and physiological justification of the use of FR means in diseases of the cardiovascular, respiratory and digestive systems, metabolic disorders. Indications and contraindications to the appointment of FR means. FR programs for patients. Assessment of motor capabilities, determination of the functional class of patients. Modes of motor activity, the method of exercise therapy depending on the motor mode and functional class. Indications and contraindications for the appointment of physical rehabilitation means.	Zn-2, Zn-17, Zn-23, Zn-24, Zn-22, S -1, S -2, S-3, S-4, S-8, S-16, S-18, C-1, C-2, AR-1, AR-2, AR-3,	as. Kozytska O.I. as. Marusiak S.V.

		Determination of the stage of the disease and the degree of functional disorders.		
L-5	Physical rehabilitation for diseases and injuries of the nervous system.	Clinical and physiological justification of the use of physical rehabilitation tools. Indications and contraindications for the use of physical rehabilitation tools for diseases and injuries of the peripheral nervous system. Anatomical and physiological structures of the motor sphere. Symptomatology of movement disorders. Clinical and physiological justification of the use of physical rehabilitation tools for diseases and injuries of the central nervous system. Indications and contraindications for the use of means of physical rehabilitation in neurological diseases. Determination of tasks, means and methods of physical rehabilitation, motor regime depending on motor function disorders. Compilation of the scheme and complex procedure of therapeutic gymnastics.	Zn-2, Zn-17, Zn-20, Zn-21, Zn-22, Zn-25, Zn-26, S -1, S -2, S-5, S-10, S-16, S-17, C-1, C-2, AR-2, AR-3	as. Kozytska O.I. as. Marusiak S.V.
L-6	Physical rehabilitation in surgery, traumatology and orthopedics.	Clinical and physiological justification of the use of FR means in surgical diseases. Indications and contraindications for prescribing exercise therapy. The main tasks and forms of exercise therapy in the preoperative and postoperative periods. Peculiarities of the use of exercise therapy during surgical interventions. Clinical and physiological justification of the use of FR means in injuries of the musculoskeletal system. Indications and contraindications. Tasks of exercise therapy depending on the period (immobilization, post-immobilization, recovery) and method of treatment of trauma patients. Selection of means and forms of physical therapy. Evaluation of the effectiveness of physical rehabilitation.	Zn-2,Zn-17 Zn-20, Zn-21, Zn-22,Zn-27, Zn-28, Zn-29,Zn-30, Zn 31, S-1, S-2,S-5,S-10, S-16 ,S-17, C-1, C-2, AR-1, AR-2, AR-3.	as. Kozytska O.I. as. Marusiak S.V.
L-7	Physical rehabilitation in obstetrics and gynecology practice.	Clinical and physiological justification of the use of physical rehabilitation tools. Indications and contraindications for the use of physical rehabilitation during pregnancy. Peculiarities of the method of using physical exercises for women with a normal course of pregnancy depending on the trimester. Peculiarities of the technique of using physical exercises in childbirth and the postpartum period, with incorrect positions and pelvic presentation of the fetus, with operative delivery. Indications and contraindications for prescribing physical rehabilitation in gynecological practice. Peculiarities of individual methods of physical rehabilitation for chronic inflammatory diseases of the female genital organs,	Zn-2,Zn-17 Zn-20, Zn-21, Zn-22,Zn-32, Zn-33, S-1, S-2, S-4,S-8,S-15, S-21 ,S-22, C-1, C-2, AR-2, AR-3.	as. Marusiak S.V. as. Kozytska O.I.

		anomalies of uterine positions. Compilation of the scheme of the procedure and complex of the therapeutic gymnastics procedure. Peculiarities of the use of physical rehabilitation tools for disorders of menstrual function and functional urinary incontinence.		
L-8	Peculiarities of physical education of babies. Physical rehabilitation of sick young children.	Results of rehabilitation for diseases in children (physical therapy, massage, physiotherapy). Classification of physical exercises. Clinical and physiological justification of the use of physical therapy in children's illness. Mechanisms of influence of physical exercises on sick children. General tasks of therapeutic physical education. Indications, tasks, forms, means and special exercises for diseases in children. Control of the effectiveness of the use of rehabilitation tools.	Zn-2, Zn-17 Zn-20, Zn-21, Zn-22, Zn-34, Zn-35, Zn-1, S-2, S-4, S-8, S-15, VS-23, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V. as. Kozytska O.I.
P-1	Comprehensive medical examination of person engaged in physical education and sports. Research and evaluation of human physical development.	Physical rehabilitation and sports medicine in the historical aspect. Modern ideas about physical rehabilitation and sports medicine, and their importance in the health care system. The effect of physical activity of varying intensity on the human body. Comprehensive methods of medical examination of persons engaged in physical exercises. Human physical development and factors that determine it. The concept of functional tests. The main tasks of functional research. General requirements for conducting functional tests. Classification of functional tests. Types of reaction of the circulatory system to functional tests with physical activity. Analysis of the results of a comprehensive medical examination. Medical opinion. The concept of tolerance to physical activity. Pre-pathological and pathological conditions that occur during inadequate physical activity, means of their prevention and emergency care.	Zn-1, Zn-2, Zn-3, Zn-5, Zn-6, S-1, S-2, S-3, S-4, C-1, C-2, AR-1, AR-2, AR-3	as. Marusiak S.V. as. Kozytska O.I.
P-2	Research and evaluation of physical development the functional state of the organism. Medical conclusion	The concept of functional tests. Classification of functional tests. Conditions for performing functional tests. Classification of physical activity. Types of response of the cardiovascular system to exercise.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, Zn-8, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3	as. Marusiak S.V. as. Kozytska O.I.
P-3	Determination and estimation of general physical capacity and aerobic productivity. Tolerance to physical activities.	Concept of general physical efficiency, aerobic performance and exercise tolerance. Methods of determining physical efficiency. Indications and contraindications to the appointment of stress tests. Method of conducting of test PWC170. The concept of maximum oxygen consumption. Function classes.	Zn-6, Zn-7, Zn-8, Zn-9, Zn-10, Zn-11, Zn-12, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3	as. Marusiak S.V. as. Kozytska O.I.

P-4	The pre-pathological states and diseases at the inefficient engaging in physical culture and sport. A concept about stimulant.	The concept of acute and chronic stress. Causes of pre-pathological conditions. The concept of retraining. Cardiac arrhythmia. Acute and chronic pathological conditions.	Zn-4, Zn-5, Zn-6, Zn-7, Zn-8, Zn-9, Zn-10, Zn-11, S-2, S-3, S-5, S-6, S-7, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V. as. Kozytska O.I.
P-5	Means of restoration and stimulation during sports training.	Physiological mechanisms of recovery processes. Pharmacological means of fatigue prevention. Physiotherapeutic methods of recovery.	Zn-3, Zn-4, Zn-5, Zn-6, S-2, S-3, S-5, S-6, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V. as. Kozytska O.I.
P-6	General bases of massotherapy.	Massage techniques. Combination of massage with other treatments.	Zn-2, Zn-4, Zn-5, Zn-6, S-2, S-3, S-5, S-6, S-7, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V. as. Kozytska O.I.
P-7	General bases of physical rehabilitation. Psychological rehabilitation and social work with persons who became disabled during military service and other persons who suffered during military operations.	Periods and stages of physical rehabilitation. Means of physical rehabilitation. Mechanisms of therapeutic exercises. Methodology of drawing up schemes and oriented complexes of medical gymnastics. Modes of motor activity. Indications for the appointment of movement modes at the inpatient, sanatorium and outpatient polyclinic stages of rehabilitation, their tasks and content.	Zn-4, Zn-5, Zn-6, S-2, Zn-3, S-5, S-6, S-7, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V. as. Kozytska O.I.
P-8	Physical rehabilitation for internal diseases.	Indications and contraindications to the use of physical rehabilitation for internal diseases. The use of exercise therapy in bronchopulmonary pathology. Characteristics of breathing exercises. Determination of respiratory function disorders and the degree of respiratory insufficiency. A differentiated choice of breathing and gymnastic exercises depending on the mechanism of obstruction, the degree of respiratory insufficiency and violations of the rhythm and stereotype of breathing. Peculiarities of application and separate methods of exercise therapy for bronchial asthma, pneumonia, pleurisy, emphysema of the lungs, bronchiectasis, pulmonary tuberculosis, depending on the movement regime. Clinical and physiological justification of the use of physical rehabilitation tools in kidney diseases and metabolic disorders. Tasks and separate methods of exercise therapy for kidney pathology and metabolic disorders (obesity, diabetes).	Zn-4, Zn-5, Zn-6, S-2, S-3, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	As. Marusiak S.V. as. Kozytska O.I.
P-9	Physical rehabilitation in surgery, traumatology, orthopedics.	Indications and contraindications to the use of physical rehabilitation in surgery, traumatology, orthopedics. Peculiarities of the use of exercise	Zn-2, Zn-17, Zn-20, Zn-21, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8,	as. Kozytska O.I. as. Marusiak S.V.

		therapy during surgical interventions on the organs of the abdominal and thoracic cavities, depending on the movement regime and the course of the postoperative period. Clinical and physiological justification of the use of FR means in injuries of the musculoskeletal system.	C-1, C-2, AR-1, AR-2, AR-3	
P-10	Physical rehabilitation in obstetrics and gynecology.	Indications and contraindications to the use of physical rehabilitation in obstetrics and gynecology. Therapeutic gymnastics depending on the period of pregnancy. Peculiarities of the technique of using physical exercises during childbirth and the postpartum period, with incorrect positions and pelvic presentation of the fetus, with operative delivery. Compilation of the scheme of the procedure and complex of the therapeutic gymnastics procedure. Peculiarities of the use of physical rehabilitation tools for disorders of menstrual function and functional urinary incontinence.	Zn-2, Zn-17, Zn-20, Zn-21, Zn-22, Zn-32, Zn-33 S -1, S -2, S-4, S-8, C-1, C-2, AR-1, AR-2, AR-3	as. Kozytska O.I. as. Marusiak S.V.
P-11	Physical rehabilitation in pediatrics.	Basic principles of application of means of physical rehabilitation in pediatrics. Methods of therapeutic gymnastics in young children.	Zn-2, S -1, S -2, S-4, S-8, C-1, C-2, AR-1, AR-2, AR-3	as. Kozytska O.I. as. Marusiak S.V.
P-12	Physical rehabilitation at diseases and traumas of the central and peripheral nervous system.	Indications and contraindications to the use of physical rehabilitation in neurological pathology. The use of physical rehabilitation to close and open brain injuries. Physical rehabilitation for peripheral neuritis.	Zn-2, S -1, S -2, S-4, S-8, C-1, C-2, AR-1, AR-2, AR-3	as. Kozytska O.I. as. Marusiak S.V.
ISW-1	Preparation for practical classes; review of scientific and methodical literature; formation of practical skills.	Preparation for practical classes, acquaintance with modern methods of physical rehabilitation. View scientific materials with visualization of physical exercises and massage techniques.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V. as. Kozytska O.I.
ISW-2	Writing a medical control card (form № 061 / o) and a card of a patient being treated in the surgical department, in an exercise therapy room or rehabilitation center (form №42 / o).	Acquaintance and filling in of the basic types of medical control cards which are used in work in the course of medical control of healthy persons and rehabilitation of patients.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	as. Marusiak S.V. as. Kozytska O.I.
ISW-3	Features of medical control over children and adolescents during exercise. Quantitative assessment of the level of physical health. Coice of	Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information resources. Writing a glossary with brief explanation of terms (can be replaced by a crossword puzzle) Control work. Report (make a plan, select the main literary sources, draw	Zn-2, Zn-3, Zn-5, S -1, S -2, S-4, S-8, C-1, C-2, AR-1, AR-2, AR-3	as. Kozytska O.I. as. Marusiak S.V.

	individual motor mode.	conclusions and generalization) 5. Summery.		
ISW-4	General characteristics of the impact of physical activity of varying intensity on the body.	Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information resources. Writing a glossary with brief explanation of terms (can be replaced by a crossword puzzle) Control work. Report (make a plan, select the main literary sources, draw conclusions and generalization) Summery.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	as. Kozytska O.I. as. Marusiak S.V.
ISW-5	Medical and pedagogical control in the process of physical exercises.	Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information resources. Writing a glossary with brief explanation of terms (can be replaced by a crossword puzzle) Control work. Report (make a plan, select the main literary sources, draw conclusions and generalization) Summery.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	as. Kozytska O.I. as. Marusiak S.V.
ISW-6	Modern approaches to the rehabilitation of patients with myocardial infarction.	Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information resources. Writing a glossary with brief explanation of terms (can be replaced by a crossword puzzle) Control work. Report (make a plan, select the main literary sources, draw conclusions and generalization) Summery.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	as. Kozytska O.I. as. Marusiak S.V.
ISW-7	Features of physical rehabilitation in diabetes, obesity, gout.	Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information resources. Writing a glossary with brief explanation of terms (can be replaced by a crossword puzzle) Control work. Report (make a plan, select the main literary sources, draw conclusions and generalization) Summery.	Zn-2, Zn-3, Zn-5, Zn-6, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	as. Kozytska O.I. as. Marusiak S.V.
ISW-8	Modern means of physical rehabilitation for radiculitis and osteochondrosis of the spine.	Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information resources. Writing a glossary with brief explanation of terms (can be replaced by a crossword puzzle) Control work. Report (make a plan, select the main literary sources, draw conclusions and generalization) Summery.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	as. Kozytska O.I. as. Marusiak S.V.
ISW-9	Features of the technique of physical	Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1,	as. Kozytska O.I. as. Marusiak S.V.

	rehabilitation in pre-operative and postoperative periods during surgery of the chest and abdominal cavity.	resources. Writing a glossary with brief explanation of terms (can be replaced by a crossword puzzle) Control work. Report (make a plan, select the main literary sources, draw conclusions and generalization) Summery.	S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	
ISW-10	Modern means of physical rehabilitation for radiculitis and osteochondrosis of the spine.	1Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information resources. Writing a glossary with brief explanation of terms (can be replaced by a crossword puzzle) Control work. 4. Report (make a plan, select the main literary sources, draw conclusions and generalization) Summery.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	as. Kozytska O.I. as. Marusiak S.V.
ISW-11	Features of modern psychophysical training of a woman in the normal course of pregnancy.	Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information resources. Writing a glossary with brief explanation of terms (can be replaced by a crossword puzzle) Control work. Report (make a plan, select the main literary sources, draw conclusions and generalization) Summery.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	as. Kozytska O.I. as. Marusiak S.V.
ISW-12	Prevention and correction of posture disorders and flat feet in children. Non-traditional means of physical rehabilitation with cerebral palsy.	Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information resources. Writing a glossary with brief explanation of terms (can be replaced by a crossword puzzle) Control work. Report (make a plan, select the main literary sources, draw conclusions and generalization) Summery.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	as. Kozytska O.I. as. Marusiak S.V.

8. Verification of learning outcomes

Current control is carried out during the training sessions and aims to check the assimilation of students' educational material (it is necessary to describe the forms of current control during the training sessions). Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. The final grade for the current educational activity is set on a 4-point (national) scale.

Evaluation criteria.

Students receive credit after completing the teaching of the discipline in the 3rd year of study, in the 6th semester, who have fully met the requirements of the curriculum. Student performance is assessed on a traditional 4-point scale. The subject "Physical Rehabilitation and Sports Medicine" for students is carried out in practical classes, lectures and in the form of independent work of students (ISW). Classes are conducted by a teacher of physical rehabilitation and sports medicine according to the curriculum.

Final control

General evaluation system	Participation in the work during the semester / exam - 60% / 40% on a 200-point scale	
Rating scales	traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale	
Conditions of admission to the final control	The student attended all practical classes and received at least 120 points for current performance	
Type of final control	Methods of final control	Enrollment criteria

Credit	All topics submitted for current control must be included. Grades from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulation "Criteria, rules and procedures for evaluating the results of student learning activities"	The maximum number of points is 200. The minimum number of points is 120
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The calculation of the number of points is based on the grades obtained by the student on a 4-point (national) scale during the study of the discipline, by calculating the arithmetic mean (CA), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows:

$$x = \frac{CA \times 120}{5}$$

For convenience, a table of recalculation on a 200-point scale is given Recalculation of the average score for current activities in a multi-point scale for disciplines that end with a test.

4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale
5	200	4.45	178	3.92	157		
4.97	199	4.42	177	3.89	156		
4.95	198	4.4	176	3.87	155	3.37	135
4.92	197	4.37	175	3.84	154	3.35	134
4.9	196	4.35	174	3.82	153	3.32	133
4.87	195	4.32	173	3.79	152	3.3	132
4.85	194	4.3	172	3.77	151	3.27	131
4.82	193	4.27	171	3.74	150	3.25	130
4.8	192	4.24	170	3.72	149	3.22	129
4.77	191	4.22	169	3.7	148	3.2	128
4.75	190	4.19	168	3.67	147	3.17	127
4.72	189	4.17	167	3.65	146	3.15	126
4.7	188	4.14	166	3.62	145	3.12	125
4.67	187	4.12	165	3.57	143	3.1	124
4.65	186	4.09	164	3.55	142	3.07	123
4.62	185	4.07	163	3.52	141	3.02	121
4.6	184	4.04	162	3.5	140	3	120
4.57	183	4.02	161	3.47	139		
4.52	181	3.99	160	3.45	138		
4.5	180	3.97	159	3.42	137	less	Not enough
4.47	179	3.94	158	3.4	136	3	

Ranking with the assignment of grades "A", "B", "C", "D", "E" is carried out for students of this course who study in one specialty and have successfully completed the study of the discipline. Students who receive grades FX, F ("2") are not included in the list of ranked students. Students with an FX grade automatically receive an E score after retaking.

Mark ECTS	Statistical indicator
A	The best 10 % students
B	Next 25 % students
C	Next 30 % students
D	Next 25 % students
E	The last 10 % students

9. Course policy

Indicates academic integrity policies, program-specific policies relevant to the course
Academic Integrity: Students' work is expected to be their original research or reasoning. Lack of references to sources used, fabrication of sources, copying, interference in the work of other students are, but are not limited, examples of possible academic dishonesty.

Identifying signs of academic dishonesty in the student's work is the basis for its non-enrollment by the teacher, regardless of the extent of plagiarism or deception. Sources of training: the source base can be provided by the teacher exclusively for educational purposes without the right to transfer it to third parties. Students are encouraged to use other literature that is not on the recommended list.

10. Literature

Literature

Basic:

1. Likuvna fizkultura ta sportyvna medytsyna: Pidruchnyk / Klapchuk V.V., Dziak H.V., Muravov I.V. ta in.; za red.

V.V. Klapchuka, H.V. Dziaka. – K.: Zdorovia, 1995. – 312 s.

2. Likuvalna fizkultura ta sportyvna medytsyna: Testovi zavdannia dlia kontroliu znan studentiv medychnoho ta stomatolohichnoho fakultetiv vyshchykh medychnykh navchalnykh zakladiv IV rivniv akredytatsii (Navchalnyi posibnyk) / Abramov V.V., Klapchuk V.V., Mahlovanyi A.V., Smyrnova O.L., ta in.; za red. prof. V.V. Klapchuka ta prof. A.V. Mahlovanoho. – Dnipropetrovsk: Med. akademiia, 2006. – 124 s.

3. Likuvalna fizkultura v stomatolohii: Navchalnyi posibnyk / Apanasenko H.L., Makarenia V.V., Naumenko R.H.; za red. H.L. Apanasenko. – K.: Vyshcha shkola, 1993. – 111s.

4. Mykhaliuk Ye.L., Malakhova S.M., Cherepok O.O., Smyrnova O.L. Fizychna reabilitatsiia ta sportyvna medytsyna v stomatolohii: Navchalnyi posibnyk dlia studentiv vyshchykh navchalnykh zakladiv / Ye.L. Mykhaliuk, S.M. Malakhova, O.O. Cherepok, O.L. Smyrnova. – Zaporizhzhia: ZDMU, 2012. – 179 s.

5. Romanyshyn M.Ia. Fizychna reabilitatsiia v sporti: Navchalnyi posibnyk. – Rivne: «Volynski oberehy», 2007. – 368 s.

6. Sportyvna medytsyna: Pidruchnyk dlia studentiv ta likariv / Za zahalnoiu redaktsiieiu prof. V.M. Sokruta – Donetsk: «Kashtan», 2013. – 472 s.

7. Fizychna reabilitatsiia, sportyvna medytsyna : Pidruchnyk dlia studentiv vyshchykh medychnykh navchalnykh zakladiv / V. V. Abramov, V. V. Klapchuk, O. B. Nekhaneych A.V. Mahlovanyi [ta in.] ; za red. prof. V. V. Abramova ta dots. O. L. Smyrnovoi. – Dnipropetrovsk, Zhurfond, 2014. – 456 s.

8. Fizychna reabilitatsiia v stomatolohii: Navchalnyi posibnyk dlia studentiv vyshchykh navchalnykh zakladiv / V. A. Shapovalova, V. M. Korshak, V. M. Khaltaharova [ta in.]. – Kyiv : Medytsyna, 2008. – 96 s.

9. Osnovy fizychnoi reabilitatsii / Mahlovanyi A.V., V.M. Mukhin, H.M. Mahlovana // Navchalnyi posibnyk, Lviv, 2006, 148 S.

10. Pratsездatnist studentiv: otsinka, korektsiia, upravlinnia. A.V. Mahlovanyi, H.B. Safronova H.D. Halaitaty, L.A. Belova. - Lviv, “Lvivska politekhnika”, 1997.- 126 s.

Additional:

1. Dudko D.V. V.V. Lechebnaia fizycheskaia kultura v stomatolohyy / Dudko D.V., Makarenia V.V. – K.: Zdorove, 1982. – 72 s.

2. Kunychev L.A. Lechebnyi massazh / Kunychev L.A.–K.: Vyshcha shkola, 1981.–328 s.

3. Likuvalna fizkultura ta sportyvna medytsyna (Vybrani lektsii dlia studentiv) / Abramov V.V., Klapchuk V.V., Smyrnova O.L. ta in.; za red. prof. V.V. Klapchuka. – Dnipropetrovsk: Med. akademiia, 2006. – 179 s.

4. Mykhaliuk Ye.L. Hranychni ta patolohichni stany pry zaniattiakh fizychnoiu kulturoiu i sportom / Ye.L. Mykhaliuk. – Navchalnyi posibnyk dlia studentiv vyshchykh navchalnykh zakladiv. –Zaporizhzhia: ZDMU, 2010. -113 s.

5. Mukhin V.M. Fizychna reabilitatsiia / Mukhin V.M. – K.: Olimpiiska literatura, 2005. – 248 s.

6. Mukhin V.M. Fizychna reabilitatsiia / Mukhin V.M. – K.: Olimpiiska literatura, 2010. – 486 s.

7. Osnovy reabilitatsii, fizioterapii, likuvalnoi fizychnoi kultury i masazhu / Za red. V.V. Klapchuka, O.S. Polianskoi. – Chernivtsi: Prut, 2006. – 208 s.

8. Osnovni poniattia y termyny zdoroviazberezhennia ta fizychnoi reabilitatsii v systemi osvity: Navchalnyi posibnyk dlia studentiv vyshchykh navchalnykh zakladiv / O.D. Dubohai, A.I. Aloshyna, V.Ie. Lavryniuk.–Lutsk: Volynskiy natsionalnyi universytet im. Lesi Ukrainky, 2011. – 296 s.

9. Sanolohiia (medychni aspekty valeolohii) [Tekst] : pidruch. dlia likariv-slukhachiv zakl. (f-tiv) pislidyplom. osvity vyshch. navch. med. zakl. Ukrainy III-IV rivniv akredytatsii / Apanasenko H. L., Popova L. A., Mahlovanyi A. V. - K. ; L. : Kvant, 2011. - 302 s. : tabl., rys. - Bibliohr.: s. 298-302.

10. Sokolov A.A. Prymenenye lechebnoi fizycheskoi kultury v cheliustno-lytsevoi khyrurhyy / Sokolov A.A., Zausaev V.Y. – M.: Medytsyna, 1970. – 200 s.

11. Mahlovanyy A. Physical rehabilitation and thermoregulatory processes in athletea with disabilities // T. Prystupa, R. Rudenko, A. Mahlovanyy, O. Shuyan / Journal of Physical Education and Sport ®. - 2015. - P. 730-735

11. Mahlovanyi A.V. Chastota travmy holovy ta oblychchia zalezho vid vydu sportu, mekhanizm ta profilaktyka / Ye. N. Prystupa, A. V. Mahlovanyi, D. S. Avetikov, V. V. Pankevych, S. V. Ushtan // Klinichna khirurhiia. - 2017. - № 10. - S. 70–73.

Informational resources

- zakon.rada.gov.ua/go/1556-18
- <http://www.kmu.gov.ua/control/uk/cardnpd?docid=248719473>
- <http://www.kmu.gov.ua/control/uk/cardnpd?docid=248719427>
- dsmsu.gov.ua/index/ua/material/16894
- sportbuk.com/.../proekt-novoho-zakonu-ukraji...
- <http://uareferat.com>
- <http://www.lnu.edu.ua/faculty/sport/img>
- mdu.edu.ua/spaw2/uploads/files/19_4.pdf
- elibrary.kubg.edu.ua/.../Lyashenko_Tumanova
- www.sworld.com.ua/index.php/ru/pedagogy.../18194-213-923
- <http://lp.edu.ua/node/1347>
- zakon.rada.gov.ua/laws/show/z0249-06
- ua.textreferat.com/referat-664.html
- www.ukrreferat.com/index.php?referat=61901

- elartu.tntu.edu.ua/handle/123456789/883
- [nbuv.gov.ua/.../VchdpuPN_2013_112\(1\)_24](http://nbuv.gov.ua/.../VchdpuPN_2013_112(1)_24)
- studme.com.ua/.../programmno-normativnye_o...

11. Equipment, logistics and software of the discipline / course

Textbooks, manuals, methodical recommendations, tests of current control, dynamometers, spirometers, centimeter tapes, scales, height meters, stopwatches.

12. Additional information

All other information important for the student, which is not included in the standard description, for example, contact details of the person responsible for the educational process at the department, information about the scientific circle of the department, information about routes, information about the need to equip themselves with occupational safety; information about the place of classes; links to website / department pages, etc.

Syllabus stacker
as. Marusiak S. V.



(Sign)

The head of the department
As.prof, c.b.s. Kunynets O.B.



(Sign)