



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	2021/2022
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. Kozytska O.I. (okozytska@gmail.com) as. Marusiak S. V. (avrielle1803@gmail.com)
Erasmus yes / no (availability of the discipline for students within the Erasmus +)	No
Responsible for Syllabus	as. Kozytska O. I. (okozytska@gmail.com)
Credits ECTS	3 credits
Hours (lectures / practical classes / independent work of students)	10/30/50
Language of Instruction	English
Consultations	According to the schedule
2. Brief review of the subject	
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.	
3. Aim of the Subject	
<p>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.</p> <p>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.</p> <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <p>General competencies: Ability to abstract thinking, analysis and synthesis. Knowledge and understanding of the subject area and understanding of professional activity.</p>	

Ability to apply knowledge in practice.
 Ability to communicate in the state language both orally and in writing.
 Ability to communicate in English.
 Skills in the use of information and communication technologies.
 Ability to identify, pose and solve problems.
 Ability to work in a team.
 The desire to preserve the environment.
 The ability to act socially responsibly and consciously.
 Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies. Active recreation and leading a healthy lifestyle.

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

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	Knowledge and understanding of the subject area and understanding of professional activity	PR-1, PR-2, PR-21
Zn-2	Knowledge of the technique of performing basic motor skills and abilities	PR-3, PR-21, PR-22, PR-23
Zn-3	Knowledge of the types of reactions of the body to exercise	PR-15, PR-16
Zn-4	Knowledge of the main tasks, forms and features of medical control during exercise	PR-3
Zn-5	Knowledge of exercise therapy methods and mechanisms of therapeutic action of physical exercises.	PR-17
Zn-6	Knowledge of the basics methods of rehabilitation and physical improvement by traditional and non-traditional means and methods of physical culture.	PR-17
Zn-7	Knowledge of modern research methods and methods of their implementation in specialized activities of athletes.	PR-3, PR-8
S-1	Be able to study and evaluate physical development, functional abilities of the body and human health.	PR-3
S-2	Be able to diagnose the degree of functional disorders of the human body.	PR-4, PR-5
S-3	Be able to analyze survey data and form a medical opinion.	PR-18
S-4	Be able to determine the purpose, objectives, basic tools and methodological principles of physical rehabilitation.	PR-3, PR-4, PR-8
S-5	Be able to choose the optimal mode of motor activity for patients with medical profile depending on the stage and period of physical rehabilitation, as well as taking into account exercise tolerance.	PR-20 PR-8, PR-9, PR-10
S-6	Be able to prescribe FR taking into account the individual characteristics of the body, the clinical course of the disease and functional disorders of the human body.	PR-8, PR-9, PR-10, PR-11, PR-21,
S-7	Be able to explain the importance of recovery processes during training.	PR-21, PR-23
S-8	Be able to conduct anthropometric research and interpret the results of clinical and laboratory research methods, to properly correct and specifically prescribe the forms, methods and means of physical rehabilitation.	PR-21, PR-23

C-1	Establish interpersonal relationships to effectively perform tasks and responsibilities.	PR-14, PR-19		
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-14		
AR-1	Independently plan and conduct research.	PR-14, PR-19		
AR-2	Take personal responsibility for the results of your own professional activities.	PR-19		
AR-3	Adhere to generally accepted norms of behavior and morality in interpersonal relationships.	PR-19		
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	10 hours			
practic	30 hours			
Seminars	-			
independent work	50 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 sportsmen. An estimation of functional capabilities of organism of sportsmen.	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 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.	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.
L-2	A physical capacity and her connection with the indexes of health. The pre-pathological states and diseases at the inefficient engaging in a physical culture and sport. The concept of doping.	General concepts of rehabilitation and its main directions. Physical rehabilitation (FR) as one of the areas of rehabilitation treatment. General principles, stages and means of FR. Therapeutic physical culture (TP) as the main means of FR. Features of the method and means of exercise therapy. Forms, methods, periods and methodological principles of exercise therapy. Mechanisms of therapeutic action of physical exercises. Classification of physical exercises. Indications and contraindications to the appointment of FR. Evaluation of the effectiveness of the procedure and the course of physical rehabilitation. Theoretical foundations of therapeutic massage. The effect of massage on the human body, types of massage. Basic and additional massage techniques. Indications and contraindications to the use of massage in dentistry. The use of therapeutic massage of the maxillofacial area in combination with special exercises of therapeutic	Zn-2, Zn-3, Zn-5, Zn-6, Zn-7, 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.

		gymnastics (TG) for patients with dental profile. Evaluation of the effectiveness of the massage course.		
L-3	General bases of physical rehabilitation and massotherapy. A physical rehabilitation of the diseases of the cardiovascular system.	Massage techniques. Combination of massage with other treatments.	Zn-2, Zn-6, Zn-17, Zn-19, Zn-20, Zn-21, Zn-22, S -1, S -2, S-3, S-4, S-5 C-1, C-2, AR-1, AR-2, AR-3	as. Kozytska O.I. as. Marusiak S.V.
L-4	Physical rehabilitation for diseases and injuries of the nervous system. Physical rehabilitation in surgery, traumatology, orthopedics.	Indications and contraindications to the use of physical rehabilitation in surgery, traumatology, orthopedics. 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-5, C-1, C-2, AR-1, AR-2, AR-3,	as. Kozytska O.I. as. Marusiak S.V.
L-5	Physical rehabilitation in obstetric and gynecological practice. Features of physical education of infants. Physical rehabilitation of children.	Indications and contraindications to the use of physical rehabilitation in obstetrics and gynecology. Therapeutic gymnastics depending on the period of pregnancy.	Zn-1, Zn-2, Zn-3, Zn-5, Zn-6, S -1, S -2, S-3, S-4, S-8, C-1, C-2, AR-1, AR-2, AR-3	as. Kozytska O.I. as. Marusiak S.V.
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	The concept of functional tests. Classification of functional tests. Conditions for performing functional tests. Classification of physical activity. Typers 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.

	conclusion			
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, 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, 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.	Periods and stages of physical rehabilitation. Means of physical rehabilitation. Mechanisms of therapeutic exercises.	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.	Zn-4, Zn-5, Zn-6, S-2, S-3, S-5, S-6, S-7, S-8, C-1, C-2, AR-1, AB-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.	Zn-2, 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.
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.	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-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;	Preparation for practical classes, acquaintance with modern methods of	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5,	as. Marusiak S.V. as. Kozytska O.I.

	review of scientific and methodical literature; formation of practical skills.	physical rehabilitation. View scientific materials with visualization of physical exercises and massage techniques.	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.	
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 individual motor mode.	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) 5. Summery.	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.
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	Review of the topic – write a short	Zn-2, Zn-3, Zn-	as. Kozytska O.I.

	physical rehabilitation in diabetes, obesity, gout.	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.	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. 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 rehabilitation in pre-operative and postoperative periods during surgery of the chest and abdominal cavity.	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-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	Review of the topic – write a short synopsis of 1-2 pages, with involvement of Internet information resources.	Zn-1, Zn-2, Zn-3, Zn-4, Zn-5, Zn-6, Zn-7, S-1, S-2, S-3, S-4,	as. Kozytska O.I. as. Marusiak S.V.

children. Non-traditional means of physical rehabilitation with cerebral palsy.	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-5, S-6, S-7, S-8, C-1, C-2, AR-1, AR-2, AR-3.	
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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

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	less	Not enough
4.5	180	3.97	159	3.42	137	3	
4.47	179	3.94	158	3.4	136		

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:

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

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- 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...](http://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.as. Kozytska O. I.

(Sign)

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

(Sign)