

**Odessa National Medical University**  
**Medical faculty №2**  
**Department of Physical Rehabilitation, Sports Medicine, Physical Training and Valeology**  
**SYLLABUS OF ACADEMIC DISCIPLINE**  
**«PHYSICAL AND REHABILITATION MEDICINE»**

|                                |  |
|--------------------------------|--|
| <b>Course scope</b>            | Faculty of Medical - 3.0 ECTS credits, 90 hours.   |
| <b>Semester, year of study</b> | VII- VIII semester , IV year   |
| <b>Days, time, location</b>    | According to the schedule.   |
| <b>Teachers</b>                | 1. Iushkovska Olga. Head of the department, doctor of medical sciences, professor <a href="mailto:med_rehab@ukr.net">med_rehab@ukr.net</a><br>2. Kuhar Natalia. Ph.D., Associate Professor<br><a href="mailto:kuhar_nataliya@ukr.net">kuhar_nataliya@ukr.net</a><br>3. Plakida Alexander. Ph.D., Associate Professor. Responsible for international work, scientific work and scientific student team of the department. <a href="mailto:aplakida01@gmail.com">aplakida01@gmail.com</a><br>4. Semenenko Oleg. Assistant. Responsible for the postgraduate work of the department. <a href="mailto:osemenenko447@gmail.com">osemenenko447@gmail.com</a><br>5. Filonenko Alyona. Assistant <a href="mailto:alena.filonenko@gmail.com">alena.filonenko@gmail.com</a><br>6. Shahnazaryan Kamo. Assistant. <a href="mailto:kamsax@rambler.ru">kamsax@rambler.ru</a> |
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| <b>E-mail</b>                  | <a href="mailto:sportmed@onmedu.edu.ua">sportmed@onmedu.edu.ua</a>   |
| <b>Teacher's workplace</b>     | Department of Physical Rehabilitation, Sports Medicine, Physical Training and Valeology, address: Odessa, street Olgievskaya, 4-A.   |
| <b>Counseling for students</b> | Thursday - 15.00 - 17.00. Saturday - 9.00 - 12.00. Conducted by the next teacher according to the schedule of shifts. (For the period of quarantine - by E-mail of the department: <a href="mailto:sportmed@onmedu.edu.ua">sportmed@onmedu.edu.ua</a> , as well as using Viber, Facebook and Telegram messengers and the use of the Zoom platform and / or Microsoft Teams).   |

### COMMUNICATION

The system of organization of classes, is carried out with the help of E-mail department: [sportmed@onmedu.edu.ua](mailto:sportmed@onmedu.edu.ua), as well as with the help of messengers Viber, Facebook and Telegram and the use of the platform Zoom and / or Microsoft Teams.

### COURSE ANOTATION

**"Physical and rehabilitation medicine," as an academic discipline,** is an active medical process in health care, the goal of which is to achieve the fullest possible recovery of functioning, activity and participation impaired by disease, injury or other health conditions of a person with a disability, using a rehabilitative recovery strategy or a mutual adaptation of the person and the environment, using a rehabilitation compensation strategy with the most adequate integration

**Physical and rehabilitation medicine (FRM)** is an independent medical specialty that deals with the provision of physical and cognitive functioning (including behavior), participation (including quality of life), and modification of personal and environmental factors. Responsible for the prevention, diagnosis, treatment and rehabilitation of individuals with medical conditions and comorbidities resulting in disabilities for all age groups. (White Book of PRM, 2018)

The physical and rehabilitation medicine specialist leads the rehabilitation process. Organizes, leads, and coordinates the complete rehabilitation cycle: medical and rehabilitation screening; establishing rehabilitation goals, determining the rehabilitation interventions needed to achieve those goals, determining the members of the multidisciplinary rehabilitation team who will perform those interventions, performing the rehabilitation interventions, monitoring the effectiveness of the

rehabilitation interventions in accordance with the established goals, further adjusting the individualized.

**Course prerequisites:** based on the study by students of the Ukrainian language (in the professional direction), normal anatomy, physiology, pathological anatomy, pathophysiology, pharmacology, biochemistry, pediatric propaedeutic, general surgery, clinical anatomy and operative surgery, medical psychology, internal medicine propaedeutic, traumatology and orthopedics, obstetrics and gynecology, neurology, emergency and emergency medical care.

**Post requisites of the course:** provides a foundation for students to study manual therapy, cosmetology, current problems of physiotherapy, balneology and rehabilitation, information technology in medicine, and the fundamentals of reflexology.

**The purpose of teaching the discipline "Physical and rehabilitation medicine"** is: to form a holistic view of the model of disability, principles of rehabilitation care planning and, forms and methods of rehabilitation interventions that can be applied to restore or compensate for impaired function, activity and participation resulting from various health conditions, improving the condition of the person with disabilities regardless of age and medical diagnosis in rehabilitation. To provide students with knowledge of ICF and ICF GP. To provide a practical and scholarly basis for understanding and examining health and health-related indicators, outcomes of interventions, and the factors that determine them. To provide students with a common language for describing health and health-related indicators in order to improve understanding among diverse health professionals, researchers, administrators, and the community, including people with disabilities regardless of age. Provide imagination for students on a systematic coding scheme for health information systems.

**The main task of the study of the discipline of "Physical and Rehabilitation Medicine" are:**

- an understanding of disability, the philosophy of the International Classification of Functioning, Disability and Health and the International Classification of Functioning, Disability and Health;
- an understanding of the rehabilitation cycle, its planning, the multidisciplinary principle of providing rehabilitation care;
- methods of prevention and correction of musculoskeletal dysfunctions based on the identification of anatomical, physiological, pathological and psychosocial characteristics;
- work physiology, biomechanics, motor control, child development, adult development, kinesiology and patkinesiology;
- methodology, appropriateness and scope of application of measures of prevention and correction of motor dysfunctions in people of different ages, including neurological, musculoskeletal, cardiovascular and respiratory diseases;
- regularities of organization and development of physical education, health care, education and social protection systems, fundamentals of national and international legislation in these areas;
- theory of physical activity and sport;
- basics of psychology, sociology, anthropology, ecology and valeology, basics of scientific research, planning and performance of experimental works, basics of work organization, administration and management in public and private sectors.

**The purpose of the course "Physical and Rehabilitation Medicine"** is to teach students to apply the rehabilitation examination based on the principles of the International Classification of Functioning and Health and the International Classification of Functioning, Disability and Health, to plan the provision of rehabilitation care and use rehabilitation interventions in medication practice to ensure the prevention of disability, as well as to more quickly restore

**Expected results.**

**As a result of studying the discipline, higher education seekers must**

**know:**

- Disability models, their specificity, approaches according to the bio-psycho-social model;
- the International Classification of Functioning, Disability and Health and the International Classification of Functioning, Disability and Health;
- rehabilitation strategies (recovery and compensation) and their pathophysiological basis,

rehabilitation prognosis;

- principles of patient-centeredness in rehabilitation;
- principles of organizing rehabilitation care;
- principles of goal-setting in rehabilitation, in particular in rehabilitation of children of different ages;
- principles of teamwork and distribution of functional roles of multidisciplinary team members;
- rights, duties and responsibilities of the FRM physician;
- rehabilitation technologies used by the members of the multidisciplinary rehabilitation team, in particular for the rehabilitation of children of different ages;
- the principles of creating and applying an individual rehabilitation program and an individual rehabilitation program for a person with a disability (child with a disability)
- the meaning and be able to apply the principles of effective cooperation with other health care specialists, in particular rehabilitation specialists;
- normative acts in the field of protection of the rights of the child;
- regulations in the field of health care, especially in protecting the rights of patients, persons with disabilities;
- principles of evidence-based medicine, in particular the principles of evidence-based medicine in rehabilitation;
- principles of medical ethics and deontology;
- current legislation and normative documents, regulating the activity of management bodies and health care institutions;
- basics of law in medicine;
- indicators of work of medical and preventive treatment institution, rehabilitation institution, dispensary supervision and medical control, in particular for children of different age;
- general principles of diagnostics and treatment of diseases of internal organs, nervous system, principles of treatment of traumatic injuries in children and adults,
- principles and basic medical problems of transitional periods of human life;
- current legislation and principles of medical and social expertise, including expertise of disabilities for children of different ages;
- forms and methods of health education among the population;
- rules for preparing medical, rehabilitation and medico-expert documentation;
- advanced information and Internet technologies;
- modern scientific literature and scientific and practical periodicals in the specialty, methods of its analysis and synthesis.

***be able to:***

- identify and correctly documentation the necessary information about the patient in order to obtain information and take into account the opinions of colleagues and other experts;
- assess and respond appropriately to individual needs and changes in the health status of patients, individuals with disabilities, including children of various ages with disabilities;
- determine rehabilitation goals, organize and prioritize, work in a team, in particular in the work of a multidisciplinary rehabilitation team;
- convey relevant information and explanations in an understandable and appropriate form to the child and his/her legal representative (orally and in writing) and with colleagues and other experts, in order to jointly participate in the planning and action of medical and rehabilitative assistance;
- be guided by current legislation on the protection of children's rights, health care and regulations governing the activities of health care authorities and institutions, and the organization of rehabilitation assistance.
- ensure organization and regulation of rehabilitation care based on the International Classification of Functioning, Disability and Health and the International Classification of Functioning, Disability and Health of Children and Adolescents.
- lead a multidisciplinary rehabilitation team, coordinate the activities of each of its members and be responsible for the rehabilitation process as a whole.

- work with both the full rehabilitation team and individual rehabilitation specialists in accordance with individual rehabilitation goals and objectives.
- Improve the physical, mental functioning and activity of children with disabilities, help improve their quality of life and ensure full social functioning (participation). If necessary, directly treat the corresponding illness of the patient (child of different ages) who is receiving rehabilitative assistance. In the case of prolonged symptoms of the disease, functioning, activity and participation must be improved using specialized methods and techniques as part of a rehabilitative compensation strategy.
- provide emergency medical care for acute conditions, particularly those that may arise during rehabilitation interventions.
- Be proficient in the practice of expert-rehabilitation diagnostics and directly participate in conducting medical and social expert evaluation and expert evaluation of disabilities for children of different ages. Supervise adverse reactions/actions to medications.
- work closely with allied professionals and services.
- take part in monitoring the health and disabilities of the child and adult population, contribute to the dissemination of knowledge about the organization of rehabilitation care among the child and adult population.
- observe the principles of medical deontology.
- plan their work and the work of the multidisciplinary team and analyze their results.
- keep medical and rehabilitation documentation. Continuously improve their professional

level

## **COURSE DESCRIPTION**

### **Forms and methods of teaching**

The course will be set out in the form of lecture classes (10 hours.), practical classes (30 hours.), students' independent work (50 hours).

During the teaching of the discipline will be used the following teaching methods: verbal (lecture, conversation); visual (multimedia presentations, diagrams, tables); practical classes with the use of dummies; work with the textbook (independent work of students), the performance of individual independent tasks.

### **The content of the discipline**

**Theme 1:** Modern principles of rehabilitation. The concept of rehabilitation. Models of disabilities and their influence on rehabilitation assistance. The concept of a state of health. The international classification of functioning, disability and health: principles of construction, philosophy, principles of organizing the rehabilitation process according to the ICF GP model. The concept of rehabilitation strategies (recovery and compensation) and their pathophysiological basis, rehabilitation prognosis. Rehabilitation periods, rehabilitation cycle. The concept of patient centricity, setting goals in rehabilitation of different age groups. The concept of the profession of "physician of physical and rehabilitative medicine". Critical thinking in rehabilitation.

**Theme 2:** Concept of rehabilitation examination. Assessment and prediction tools in rehabilitation, including prediction for different age groups. Rehabilitation interventions and their particularities according to age. Principles of choosing and using assessment tools and rehabilitation interventions for different age groups as part of recovery and compensation strategies, during different rehabilitation periods, for acute and chronic health conditions.

**Theme 3:** Rehabilitation specialists, multidisciplinary team in rehabilitation, its members. Principles of the multidisciplinary rehabilitation team. Field of clinical competencies, leadership role of the FRM physician. Assessments and interventions, use of physical therapist, occupational therapist, language and speech therapist, psychologist, prosthetic orthosis therapist, rehabilitation nurse, social worker, in particular in providing rehabilitation care to a person with disabilities. An introduction to interdisciplinary cooperation. Rehabilitation teams outside of health care settings (early intervention, inclusive education).

**Theme 4:** Physical and rehabilitation medicine for injuries and diseases of the nervous system of different ages: cerebral palsy, hereditary diseases of the nervous system, the consequences of birth injuries, spinal cord injuries, injuries and diseases of the peripheral nervous system. Means of

assessment and prognosis, rehabilitation interventions, peculiarities of the organization of the rehabilitation process.

**Theme 5.** Physical and rehabilitation medicine for musculoskeletal lesions in people of different ages: congenital anomalies of the musculoskeletal system, scoliosis and related conditions, bone and ligament injuries, limb amputations, rheumatic lesions. Means of assessment and prognosis, rehabilitation interventions, peculiarities of the organization of the rehabilitation process.

**Theme 6:** Physical and rehabilitative medicine for diseases of the cardiovascular and respiratory systems in people of different ages: congenital anomalies of the heart and lungs, chest deformities, surgical interventions on the organs of the chest cavity. Means of assessment and prognosis, rehabilitation interventions, specific features of the organization of the rehabilitation process.

**Theme 7:** Physical and rehabilitative medicine for other health conditions in people of different age groups: mental retardation, prolonged immobilization, swallowing disorders, chronic pain syndromes, obesity. Means of assessment and prediction, rehabilitation interventions, peculiarities of the organization of the rehabilitation process.

**Theme 8:** Physical and rehabilitative medicine for cancer. Hospice and palliative care for children. The means of assessment and prognosis, rehabilitation interventions, the peculiarities of the organization of the rehabilitation process.

**Theme 9.** Using natural and preformed physical factors in providing rehabilitation care for people of all ages: classification of physical factors, apparatus physiotherapy, principles of using natural and preformed physical factors in organizing modern evidence-based rehabilitation for people of all ages.

**Theme 10.** Massage. Its varieties, influence on the body of an adult, child, depending on age and disabilities. Peculiarities of massage application to children in the first year of life.

**Theme 11.** Physical and rehabilitation medicine in sports. The main objectives and content of medical control, the technique of a comprehensive medical examination. Analysis of the results of a comprehensive medical examination. Determination and assessment of human physical development. Study and assessment of the functional state of the cardiovascular, respiratory and autonomic nervous system with the help of functional tests. Medical conclusion.

**Theme 12.** Physical and rehabilitation medicine for injuries in sport. Prevention of acute and chronic injuries in sports. Principles of rehabilitation of sports injuries and chronic conditions after injuries.

### ***List of recommended reading***

#### ***Main literature:***

1. Физическая и реабилитационная медицина: национальное руководство /под редакцией Г.Н. Пономаренко. – М.: ГЭОТАР – Медиа, 2016. – 688 с.

2. Физическая реабилитация: методические рекомендации к практическим занятиям для студентов 4 курса медицинского факультета) /О.Г. Юшковская, Н.Н. Кухар, А.Л. Плакида – Одеса: «Полиграф», 2016. – 160 с.

3. Фізична реабілітація, спортивна медицина: підручник для студентів вищих мед. навч. закладів / В.В. Абрамов, В.В. Клапчук, О.Б. Неханевич [та ін.]: за ред. професора В.В. Абрамова та доцента О.Л. Смирнової. – Дніпропетровськ, Журфонд, 2014. – 456 с.: іл. 79.

4. Основы физической реабилитации: учебник для студентов вузов / О.К. Марченко. – К.: Олимп. лит., 2012. – 528 с.

5. Фізична реабілітація хворих на ішемічну хворобу серця. Юшковська О.Г. Монографія /Одес. держ. мед. ун-т – Одеса: – 2010. – 224 с.

6. Фізична реабілітація: підручник /В.М. Мухіна – 3-тє вид., переробл. та доповн. – К.: Олімп. Л-ра, 2009. – 488 с.: іл..

7. Марченко О. К. Фізична реабілітація хворих із травмами й захворюваннями нервової системи: Навч. посібник. Олімпійська література, 2006. – 196 с.

8. European Physical and Rehabilitation Medicine Bodies Alliance. White Book on Physical and Rehabilitation Medicine in Europe. Eur J Phys Rehabil Med 2018. - Vol.54(2). – P.125-321.

9. World Health Organization. Rehabilitation 2030: a call for action: Meeting report [Internet]. WHO; 2017. Available from: <http://www.who.int/disabilities/care/rehab-2030/en/>
10. WHO WHO global disability action plan 2014-2021 [Internet]. WHO. [cited 2014 Oct 21]. Available from: <http://www.who.int/disabilities/actionplan/en/>
11. A position paper on physical & rehabilitation medicine programmes in post-acute settings / Ward A., Gutenbrunner C., Giustini A., Delarque A., Fialka-Moser V., Kiekens C., Berceanu M., Christodoulou N. // J Rehabil Med 2012; (44): 289–298.
12. R.L. Braddom. Physical Medicine and Rehabilitation / R.L. Braddom. – England: Elsevier Science, 2011. – 1536 с.
13. WHO World Report on Disability [Internet]. WHO. [cited 2014 Nov 8]. Available from: [http://www.who.int/disabilities/world\\_report/2011/en/](http://www.who.int/disabilities/world_report/2011/en/)
14. European Union of Medical Specialists (UEMS) Section of Physical & Rehabilitation Medicine: A position paper on physical and rehabilitation medicine in acute settings./ Ward A., Gutenbrunner C., Damjan H., Giustini A., Delarque A. // J Rehabil Med. – 2010 (42): P.417–424.
15. DeLisa's. Physical Medicine and Rehabilitation / DeLisa's. – Lippincott Williams & Wilkins; Fifth, North Am, 2010. – 2432 с.

### **Additional literature:**

1. Спортивная медицина: Учебник для студентов ВУЗ физического воспитания и спорта / Л.Я.Г. Шахлина, Б.Г. Коган, Т.А. Терещенко, В.П. Тищенко, С.М. Футорный; под ред. Л.Я.Г. Шахлиной. – Киев: Наукова думка, 2016. – 452 с.: ил.
2. Физическая терапия в реабилитации больных ишемической болезнью сердца: метод. рекомендации. – М.: НОРФРМ, 2015. – 40 с.
3. Епифанов В.А. Медицинская реабилитация /В.А. Епифанов, Е.Е. Ачкасова – М.: ГЭОТАР-Медиа, 2015. – 672 с.
4. Пономаренко Г.Н. Основы молекулярной физиотерапии. /Г.Н. Пономаренко, В.С. Улащик – СПб., 2014. – 288 с.
5. Самостійні заняття з фізичного виховання. Навчальний посібник / О.Г. Юшковська, Т.Ю. Круцевич, В.Ю. Середовська, Г.В. Безверхня. – Одеса: Одес. Нац. Мед. ун-т. – 302 с. – (Б-ка студента-медика).
6. Физиотерапия. Классический курс /под ред. С.Б. Портера: пер. с англ. под ред. Г.Н. Пономаренко. – СПб.: Человек, 2014. – 761 с.
7. Организация физиотерапевтической помощи: методическое пособие / под ред. Г.Н. Пономаренко. – СПб., 2013. – 136 с.
8. Пономаренко Г.Н. Физиотерапевтическая помощь в медицинских организациях – СПб., 2012.
9. Пономаренко Г.Н. Физические методы лечения: справочник. – 4-е изд., перераб. и доп. – СПб., 2011.
10. Улащик В.С. Общая физиотерапия: учебник /В.С. Улащик И.В. Лукомский – Минск, 2010.
11. Шиман А.Г. Пунктурная физиотерапия заболеваний нервной системы /А.Г. Шиман, Г.Н. Пономаренко, С.Д. Шоферова – 2-е изд., испр. и доп. – СПб.: Балтика, 2005. – 96 с.
12. Эноки Р.М. Основы кинезологии. – Киев: Олимпийская литература, 2000.
13. Gutenbrunner C., Tederko P., Grabljevec K., Nugraha B., Responding to the World Health Organization Global Disability Action Plan in Ukraine: developing a National Disability, Health and Rehabilitation Plan J Rehabil Med. – 2018 (50). – P.338–341

### **Informational resources**

- <http://www.moz.gov.ua> – Офіційний сайт Міністерства охорони здоров'я України.
- <http://www.president.gov.ua/documents/6782015-19605> - Указ Президента України «Про активізацію роботи щодо забезпечення прав людей з інвалідністю»

- <https://www.kmu.gov.ua/ua/npas/pro-zatverdzhennya-planu-zahodiv-iz-vprovadzhennya-v-ukrayini-mizhnarodnoyi-klasifikaciyi-funkcionuvannya-obmezhen-zhittyediyalnosti-ta-zdorovya-ta-mizhnarodnoyi-klasifikaciyi-funkcionuvannya-obmezhen-zhittyediyalnosti-ta-zdorovya-ditej-i-pidlitkiv> - Розпорядження Кабінету Міністрів України від 27.12.2017 №1008-р «Про затвердження плану заходів із впровадження в Україні Міжнародної класифікації функціонування, обмежень життєдіяльності та здоров'я та Міжнародної класифікації функціонування, обмежень життєдіяльності та здоров'я дітей і підлітків»
- <http://zakon5.rada.gov.ua/laws/show/2801-12>- Закон України «Основи законодавства України про охорону здоров'я»
- <http://zakon3.rada.gov.ua/laws/show/2961-15> - Закон України «Про реабілітацію осіб з інвалідністю в Україні»
- <http://zakon2.rada.gov.ua/laws/show/3808-12>- Закон України «Про фізичну культуру і спорт».
- <http://zakon4.rada.gov.ua/laws/show/1060-12> - Закон України «Про освіту».
- <http://www.nbuv.gov.ua/> – Національна бібліотека України імені В.І.Вернадського.
- <http://library.gov.ua/> – Національна наукова медична бібліотека України.
- <http://osvita.ua/vnz/> – Вища освіта в Україні.
- <http://metodportal.com/taxonomy/term/35>–Методичний портал «Фізичне виховання».
- <http://www.tmfv.com.ua/> – журнал «Теорія та методика фізичного виховання».

## EVALUATION CRITERIA

### Assessment of students' independent work

Independent work of students, which is provided in each topic, along with the classroom work, is evaluated during the current control topics in the form of theoretical testing.

### Assessment of individual assignments of the student

Completion of an individual assignment is credited to the student only after successfully defending it in the practical session. Depending on the quality of performance and defense of the individual task the student may receive the traditional grades of "5", "4", "3" and "2".

### The current control

The current control involves 100% delivery of control standards and tests from independent work (DLS), the students of the group with the obligatory assessment of all components of classes - test control, control standards. At each practical lesson, the instructor evaluates each student on a four-point system "5-4-3-2".

- "**excellent**" is given to a student who systematically worked during the semester, showed versatile and deep knowledge of the program material, is able to successfully complete the tasks provided for by the program, has mastered the content of the main and additional literature, realized the relationship of individual sections of the discipline, their importance for the future profession, discovered creativity in understanding and using educational and program material, showed the ability to independently update and replenish knowledge; level of competence - high (creative)

- "**good**" is given to a student who has discovered a complete knowledge of educational and program material, successfully fulfills the tasks provided for by the program, has mastered the basic literature recommended by the program, has shown a sufficient level of knowledge in the discipline and is capable of independently updating and updating them in the course of further education and professional activity; level of competence - sufficient (constructive and variable)

- "**satisfactory**" is given to a student who has discovered knowledge of the basic educational and program material in the amount necessary for further study and subsequent work in the profession, copes with the tasks provided for in the program, made some mistakes in the answers on the exam and when performing exam tasks, but possesses the necessary knowledge to overcome the mistakes made under the guidance of a scientific and pedagogical worker; competence level - average (reproductive)

- "**unsatisfactory**" is given to a student who did not reveal sufficient knowledge of the main educational and program material, made fundamental mistakes in performing the tasks provided for in the program, cannot use knowledge in further training without the help of a teacher, could not

master the skills of independent work; the level of competence is low (receptive-productive).

### **Individual assignment assessment**

The completion of an individual assignment is credited to a student only after his successful defense in a practical lesson. Depending on the quality of performance and defense for an individual task, a student can receive traditional marks "5", "4" and "3".

The number of points for individual student work does not exceed 4 points. Points for individual work are added to the total points for the student's current academic activity. Points for individual work can be received by students who wrote and reported abstracts from the recommended topics using additional literature and won prizes for participating in the Olympiad in the discipline among students of their university and higher educational institutions in Ukraine

### **The final control of the mastery of the discipline in the form of credits is assessed on a two-point scale:**

- **"passed"** is given to a student who has completed the curriculum of the discipline, has no academic debt;

level of competence - high (creative)

- **"not passed"** is given to a student who has not completed the curriculum of the discipline, has academic debt (average score below 3.0 and / or missing classes), the level of competence is low (receptive-productive).

### **Assessment of academic progress**

Assessment of student progress in the discipline is a rating and exhibited on a multi-point scale as the sum of points for the current control of knowledge and has a definition of the system of UST and the scale adopted in Ukraine.

| <b>The total amount of points in the discipline for all types of learning activities</b> | <b>National Scale Score</b>  |
|--|--|
| From 170 to 200 points   | Excellent (A) (excellent performance with only a small number of errors)           |
| From 155 до 169 points   | Very good (B) (above average with several errors)                                  |
| From 140 до 154 points   | Good (C) (generally correct execution with a certain number of significant errors) |
| 125-139  | Satisfactory (D) (not bad, but with a significant number of shortcomings)          |
| <b>111 (min) - 124</b>   | Enough (E) (performance meets minimum criteria)                                    |
| 60-110   | Unsatisfactory (FX) (reusable)   |
| 1-59   | Unsatisfactory (F) (with compulsory re-examination of the discipline)              |

### **Credit**

Credit is awarded to students who have fully attended classroom training sessions in the discipline, provided by the curriculum and when assessing each control test, received marks on the traditional 4-point scale (2,3,4,5) and have completed all types of work provided by the curriculum. Students who have a score on the traditional 4-point scale (2) and have not completed all types of work required by the curriculum do not receive credit. Students who have not completed all types of work provided by the curriculum for a valid reason are made adjustments to the individual curriculum and allowed to work off the academic debt by a certain deadline. At the end of the study of the discipline current progress is calculated as the average score of all scores received by the student on a traditional scale, rounded to two (2) decimal places after the decimal point.

### **Converting a traditional discipline grade to a multi-point scale**

Of special methodological importance is the question of converting the result of the student's study of the discipline on a 200-point scale and further ranking on a rating scale (ECTS). It is necessary for implementation of academic mobility of students, providing a student with an opportunity to continue training in this discipline, at another university or in another country. The resulting average score for the discipline allows for conversion to a grade on a 200-point scale.



**Example:**

| Average score for the discipline | Score on a 200-point scale |
|----------------------------------|----------------------------|
| 5,0                              | 200                        |
| 4,38                             | X                          |

$$X = (4,38 \times 200): 5 = 175 \text{ points}$$

**COURSE POLICY****Deadline and recompilation policy****Deadline and retake policy**

All missed classes must be completed. A student who has missing practical classes must handle them independently (without receiving points!).

The student prepares answers to questions on the topic of the missed lesson, which are indicated in the methodological developments of the department. During independent work, the student must prepare the topics of the classes provided for by the methodological developments of the department.

Some, the most difficult and incomprehensible for the student questions can be asked to the teacher at the beginning of the missed lesson.

**During the practicum, the student must have:**

- lecture notes;
- diagrams, drawings, provided in the process of independent work of the student;
- short outline, which reflects the basic factual material of the topic.

**Academic Virtue Policy**

- independent performance of all works, tasks, forms of control, provided by the working program of the discipline "Physical and Rehabilitation Medicine";
- reference to the sources of information when using ideas, developments, statements, information;
- observing the rights of the legislation on copyright and related rights;
- providing reliable information about the results of own educational (scientific, creative) activities, used research methods and information sources.

**Attendance and Lateness Policy**

Attendance in all types of classes is mandatory. Tardiness for all types of classes is prohibited.

**Mobile devices**

During all types of classroom activities (lectures, practical classes), as well as control activities (final practical classes, exams), the use of micro headphones, phones, smartphones, tablets is prohibited.

During distance learning in conditions of special epidemic regime (adaptive quarantine), Zoom and / or Microsoft Teams platforms are used.

**Behavior in the classroom**

Behavior in the classroom during all types of training sessions (Lectures, practical sessions) must be appropriate for a medical student.

Teachers and students should be in medical gowns and caps, during full-time classes in conditions of special epidemic regime (Adaptive Quarantine) - in properly dressed protective medical masks or respirators.