

## National Pirogov Memorial Medical University, Vinnytsya

**"APPROVE"**

Vice-Rector with scientific and pedagogical work and international connections—  
Inna ANDRUSHKO

  
"30" August 2024 year

**" APPROVE "**

Head of the Department of Sports Medicine, physical education and rehabilitation Prof. HEI Larisa SARAFINYUK

  
"29" August 2024 year

### SYLLABUS EDUCATIONAL DISCIPLINES

#### "NON-MEDICATED METHODS TREATMENT AND REHABILITATION"

Specialty	222 Medicine
Educational level	Master's degree
Educational program	OPP "Medicine", 2023
Educational year	2024-2025
Chair	Sports medicine, physical education and rehabilitation
Contact information	<i>fizkult@vnm.u.edu.ua,</i> <i>Pyrogova St. ( sports building),(0432) 695995</i>
Compiler syllabus	Ass.Prof. Yuriy KYRYCHENKO

## 1. Status and structure disciplines

Status disciplines	Selective
code of the OPP and place disciplines in OPP	PC-1, ingredient cycle discipline general preparation
Course/semester	6 course ( XII semester)
The scope of the discipline (general number of hours/ quantity loans ECTS)	60 hours, credits-2.
Structure disciplines	Practical classes - 24 hours Independent work -36 hours In general: classroom lessons – 40%, independent outside the auditorium work - 60%
Number content modules	1
Language teaching	Ukrainian
Form teaching	Intramural (implementation of quarantine measures- remote ocular)

## 2. Description disciplines

**Short abstract of the course, relevance.** Program of the course " Non-medicinal methods treatment and rehabilitation" appointed for students VI course medical faculty and covers the scope of theoretical knowledge, skills, as well as practical skills In practical classes, students will have the opportunity to learn the main ones concept modern non-medicinal methods treatment and rehabilitation, mechanism of action and classification of physical factors, organization physiotherapy service, basics of non-drug rehabilitation and treatment. During the course, important attention is paid to the correct selection non-medicinal procedures (electrotherapy, phototherapy, ultrasound) c rehabilitation, I will show and contraindications to their using, techniques their conducting, dosing criteria. Independent work involves studying application non-medicinal methods treatment with different pathologies.

Organization educational process is carried out by credit-modular system in accordance to requirements of Bologna process Amount educational the workload of students is described in ECTS credits - credit credits, which are credited to students upon successful assimilation of the module (credit loan).

The discipline program is structured into one module. Credit transfer system organizations educational process prompts students systematically to learn for academic year

The types of training classes according to the curriculum are practical classes and independent work students

Practical occupation by methodology their organizations there are clinical, for provide for:

- Curation patients with diverse pathology (and at their absence in clinics - analysis of clinical situational tasks or archival case histories): collection general and professional history, carrying out physical examination;
- Justification previous diagnosis;
- Drafting plan additional examination the patient and interpretation data laboratory and auxiliary methods research;
- Carrying out differential diagnosis and justification clinical diagnosis;

Mastery of the topic is monitored in practical classes in accordance with with specific goals, assimilation of content modules - on practical final ones classes The following means of diagnosing the level of students' training are used: tests, solving situational problems, filling in workbooks, assessment data sanitary and hygienic characteristics conditions labor Interpretation laboratory research and interpretation and assessment of their results, analysis and assessment results instrumental of research and parameters, What characterize functions body human its systems and bodies; CONTROL practical skills

Final CONTROL assimilation module is conducted after its completion. Rating success student with disciplines there are rating and is presented on a multi-point scale and has a definition according to the ECTS system and scale, adopted in Ukraine.

**Prerequisites** . For successful assimilation disciplines the student needs knowledge, received in the process of studying the following disciplines of general training : anatomy human medical biology, medical chemistry, medical and biological physics, physiology, pathophysiology, hygiene and ecology, pharmacology, propaedeutics internal medicine, propaedeutics children's diseases and is integrated with by these disciplines; provides sequence and relationship with internal medicine, surgery, traumatology and orthopedics, neurology, cardiology, pediatrics, obstetrics and gynecology and by others objects

**Goal course and its value for professional activities:** formation in students holistic idea about opportunities forms and methods non-medicinal treatment and rehabilitation, understanding their places and roles in complex treatment, rehabilitation and prevention

**Post-requisites** . In the process of studying the discipline, knowledge is acquired about the types and principles of non-medicinal procedures (electrophoresis, ultrasound, magnetic therapy, light therapy, pressure chamber, etc.), as well as their indications and contraindications for use. Methods of rehabilitation using hardware methods of patients with orthopedic, traumatological, surgical and therapeutic profiles are studied.

**3. The results teaching disciplines:  
know:**

1. The main ones concept modern non-medicinal methods treatment and rehabilitation, mechanism actions and classification physical factors
2. Foundations electrotherapy, light therapy, mechanotherapy.
3. Indications and contraindications to application non-medicinal methodology treatment, machinery their carrying out, dosage criteria.
4. Application of non-medicinal methods of treatment with diseases bodies breath.
5. Application non-medicinal methodology treatment for joint, spine and soft tissue diseases.
6. Application non-medicinal methods of treatment in pediatric practice. Application non-medicinal methodology treatment at diseases peripheral nerves
7. Foundations non-medicinal methodology treatment and rehabilitation.

**be able:**

1. Select non-medicinal methods treatment and rationale their appointment in rehabilitation .
2. Appointment of various non-medicinal methods treatment and rehabilitation, dosage and conduct.
3. Definition of compatibility and alternation procedures
4. Carrying out selection necessary non-medicinal methods treatment and rehabilitation at diseases bodies breath.
5. Carrying out selection necessary non-medicinal methods treatment and rehabilitation at diseases joints, spine and connecting fabrics Carrying out selection necessary non-medicinal methods treatment and rehabilitation in pediatric practice
6. Carrying out selection necessary non-medicinal methods treatment and rehabilitation at diseases peripheral nerves

**4. Content and logistics disciplines**

Module 1	12 semester 60 hours	Practical occupation No 1-5 Topics for independent processing No 1-5
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**Module 1. " Non-drug methods of treatment and rehabilitation"**

Topic 1. General characteristics of non-pharmacological methods treatment and rehabilitation

Topic 2. Therapeutic use of electric current, electric and magnetic field, electromagnetic radiation.

Topic 3. Phototherapy. Ultrasonic therapy. Balneotherapy. Topic 4. barometer, pressure treatment, pressotherapy .

Topic 5. Thermotherapy and hydrotherapy

Calendar plans of practical classes, thematic plan of independent pose classroom work, scope and directions of individual work are published on site department.

Route receiving materials: Chair physical education and Physical therapy/Student/Full-time education/Medicine/6th year/Educational and methodical materials/ or by link <https://www.vnmu.edu.ua/> chair physical education and exercise therapy Access to materials is carried out with corporate account student [s000XXX@vnmu.edu.ua](mailto:s000XXX@vnmu.edu.ua).

### 5. Forms and methods control success teaching

Current control on practical classes	Current CONTROL with educational disciplines " Non-medicinal methods treatment and rehabilitation" is carried out under timecarrying out practical classes
Final terminal control (checking) by completion 2nd semester	According to position about organization educational process of VNMU named after M.I. Pirogov (link <a href="https://www.vnmu.edu.ua/Ukraine">https://www.vnmu.edu.ua/Ukraine</a> information/Basics documents)
Means diagnostics success teaching	Question according to topics occupation.

### 6. Criteria assessment

Assessment of knowledge is carried out in accordance with the Regulations on educational organization of the process at the M.I.Pyrogov VNMU (link <https://www.vnmu.edu.ua/Ukraine> information/Basics documents)

Current CONTROL	According to the traditional four-point system grades: 5 "excellent", 4 "good", 3 "satisfactory", 2 "unsatisfactorily"
Test	By 200-ball scale (average arithmeticscore for semester is convertible in points) Enrolled: from 122 to 200 points Not counted: less than 122 points ( see Scale assessment)

### Scale assessment: national and ECTC

Sum points by all types of training activity	Rating ECTC	Rating by national scale	
		for an exam, course of the project (work), practice	for offset
<b>180-200</b>	<b>AND</b>	perfectly	counted -
<b>170-179.99</b>	<b>IN</b>	good	
<b>160-169.99</b>	<b>WITH</b>		
<b>141-159.99</b>	<b>D</b>	satisfactorily	
<b>122-140.99</b>	<b>E</b>	satisfactorily	

<b>0-121.99</b>	<b>FX</b>	unsatisfactory with possibility repeated drafting	not counted with possibility repeated drafting
		<b>F</b>	unsatisfactorily with mandatory repeated study disciplines

### **Criteria assessment of knowledge student**

#### **Assessment oral/written answers under time current control**

The grade "**excellent**" is assigned to a student who performs physical exercises and control educational regulations on high levels owns generalized, strong knowledge with subject, owns technical and tactical preparation at performance physical exercises

A grade of "**good**" is assigned to a student who demonstrates an understanding of the basics provisions educational material, leads examples; machinery implementation physical exercises has insignificant deviation from installed requirements, which are analyzed and are corrected by help the teacher

Rating "**satisfactorily**" is exhibited to a student who owns knowledge, necessary for implementation certain element on elementary levels discernment.

The grade "**unsatisfactory**" is assigned to a student who did not show sufficient grades of knowledge topics practical occupation, allowed fundamental mistakes in techniques implementation physical exercises

### **Criteria assessment individual work students**

Accrual individual points carry out on based on Position about organization educational process in Vinnytsia national medical M.I. Pirogov University (Vinnytsia, 2023).

12 points – are added to disciplines student, which received draft place on interuniversity Olympiads with disciplines or draft place on interuniversity/international scientific conferences with availability printed work

10 points are added to the subject grade of a student who received an I place on internally university Olympics with disciplines or AND place on student scientific conference with availability printed work,

8 score- are added to evaluations with disciplines student, which received prize place (II-III) at the intra-university Olympiad in the discipline or at student scientific conferences with availability printed works; or by participation (without prize places) interuniversity Olympiads with disciplines or prize place at an inter-university/international scientific conference with availability printed work

6 points – are added to evaluations with disciplines student, which accepted participation (without prize places) in internally university Olympics with disciplines or student scientific conference with availability printed work

4 points - are added to evaluations with disciplines student, which actively accepted participation in work student scientific circle, published printed work by by the results scientific and practical research, but not

accepted personally participation in student scientific conferences, prepared bench report.

The number of points for individual tasks of a student cannot exceed 12 points for discipline. At the same time, the maximum amount of points that can be received student by discipline not maybe exceed 200 points.

## **7. Policy educational discipline/course**

The student has the right to receive high-quality educational services, access to modern scientific and educational information, qualified advisory assistance under time study disciplines and mastery practical skills Policy the department during the provision of educational services is student-centered, based on regulatory documents of the Ministry of Education and the Ministry of Health of Ukraine, statute university and of order granting educational services, regulated by the basic provisions of the organization of the educational process in VNMU named after M.I. Pirogov and principles academic integrity

**Adherence to the rules of procedure of the VNMU, safety techniques** on practical classes Briefing with techniques safety, security handling with sporty inventory is conducted on the first practical occupation a teacher (on beginning of each semester). Training is recorded in the Journal briefing with techniques security Student, which not passed briefing, not is allowed to execution practical works.

**Requirements for preparation for practical classes.** The student must be prepared to practical training

You should come to class on time, without being late. A student who is late more than 15 minutes per lesson is not allowed until the last and must work it out in established of order

On practical classes student has be dressed in sports form. Students who do not have sports shapes, are not allowed to occupation.

The student must observe safety rules during practical classes and so on time finding in sports premises department and sports complexes

Under time discussion theoretical questions students have demonstrate tolerance, politeness and respect to their own colleagues and the teacher

**Use of mobile phones and other electronic devices.** Use of mobile phones and other electronic devices in class not allowed Only under time distance learning.

**Academic integrity.** While studying the discipline, the student has to be guided by the Code academic integrity VNMU named after M.I. Pirogov (<https://www.vnmue.edu.ua/> general information/ The main ones documents/ Code academic integrity). In case of violation of norms of academic integrity during the current and final tests, the student receives a grade of "2" and must work it out to his teacher in the established order during the course two weeks after received unsatisfactory evaluations

**skips classes** Skipped occupation working out in order established in Provisions about organization educational process in VNMU named after M.I. Pirogov (link

<https://www.vnmue.edu.ua/> **General**

information/Basics documents) in time, determined schedule exercises (published on website of the department <https://www.vnmu.edu.ua/> chair physical education and exercise therapy another teacher).

**The procedure for admission to the final** discipline control is given in Provisions about organization educational process in VNMU named after E. Pirogov (link <https://www.vnmu.edu.ua/> **General** information/Main documents). Students who have no missed points are admitted to the final examination unworked practical classes and received average traditional assessment not Less "3".

**Additional individual points.** Individual scores for the discipline of the student maybe get by individual work, the volume of which is made public on site department in educational and methodical materials disciplines, number points is defined by the results IRS according to The position about organization educational process in VNMU named after E. Pirogov (link <https://www.vnmu.edu.ua/> **General** information/Basics documents).

**Solution conflicting questions** At arising misunderstandings and claims to the teacher due to the quality of the provision of educational services, assessment of knowledge and other conflict situations, the student must submit notify first about his teacher claims. If the conflict issue is not resolved, then the student has right submit appeal to manager department according to Position about consideration appeals acquirers higher education in VNMU named after E. Pirogov ( <https://www.vnmu.edu.ua/> **General** information/Basics documents).

**Policy in the conditions of distance learning.** Remote order teaching regulated Provisions about introduction elements distance learning at VNMU named after E. Pirogov ( <https://www.vnmu.edu.ua/> **General** information/Basics documents). The main ones educational platforms for carrying out educational classes there are Microsoft team , Google Meets . Order carrying out practical classes, exercises under time remote teaching is made public on web pages department ( <https://www.vnmu.edu.ua/> Department of Physical Education and Physical Education/ To the student or <https://www.vnmu.edu.ua/> chair physical education and exercise therapy / News).

**Reverse communication** with a teacher is carried out through messengers ( Viber , Telegram , WhatsApp ) or electronic mail (on choice teacher) in working time.

**8. Educational resources** Educational and methodological support of the disciplinemade public on site department. Route receiving materials <https://www.vnmu.edu.ua/> chair physical education and exercise therapy / To a student.

**Main:**

1. Bohdanovska N. IN. physical rehabilitation means physiotherapy : at hand for higher degree holders . Master of Education "Physical therapy, occupational therapy" / N.V. Bogdanovska , I.V. Kalonova . - Sumy: Univ . book, 2020. - 328 with.
2. Grigus AND. M. physical rehabilitation at diseases respiratory systems:teach help - Lviv : New World-2000, 2020. - 170 p.

3. Resort science and resorts of Ukraine: teaching . help for self work students of the IV course of medicine. f-tiv in preparation for practice . training classes disciplines "Medical rehabilitation" specialties "Medicinal case", "Pediatrics" / structure.: WITH. M. Malakhova , AT. AT. Potsherd, N. G. Wallachian - Zaporozhye : ZDMU, 2019. - 96 with.
4. Treatment and rehabilitation massage: teach help / D. IN. Vakulenko [and etc.]. - Kyiv : VSV Medicine, 2020. - 568 with.
5. Liannoy Yu. O. Fundamentals of physical rehabilitation: teaching . help for students higher teach app . / Yu. AT. Liannoy ; ed. Yu. AT. Liannoy . - Amounts : Kind-in SumyDPU named after AND. WITH. Makarenko, 2020. - 368 p.
6. Maikova T. IN. Occupational therapy: textbook / T. IN. Maikova , WITH. M. Afanasyev, AT. WITH. Afanasyev. - Dnipro : Jourfond , 2019. - 374 p.
7. Mykhalyuk E. L. General introductory practice by profession profile: at hand for students higher honey. teach app . III-IV levels accreditation by specialty "Physical therapy, occupational therapy" / E. L. Mykhalyuk , I. G. Reznichenko . - Zaporozhye : ZDMU, 2019. – 164 with.
8. Mykhaliuk THERE ARE. L. Therapeutic exercises: textbook / THERE ARE. L. Mykhalyuk , Yu. G. Reznichenko . - Zaporozhye : ZDMU, 2020. - 228 p.

### **Auxiliary :**

1. Basics of rehabilitation, physical therapy, occupational therapy: textbook . for students Iequal higher Education: branch of knowledge 22 "Protection health", special 227 "Physicaltherapy, occupational therapy" / under general editorship: L. O. Vakulenko, V. V. Klapchuk . - Ternopil : TDMU " Ukrmedknyga ", 2020. - 372 p.
2. Physical, rehabilitation and sports medicine: textbook . for students and doctors T. 1 / by general ed.: IN. M. Sokruta . - Kramatorsk : Chestnut, 2019. -480 p.
3. Yarymbash K. S. Physical rehabilitation of persons with special needs: textbook / K. WITH. Yarimbash , AT. THERE ARE. Dorofeeva , AT. WITH. Afanasyev. - Dnipro :Jourfond , 2020. - 215 with.

### **Informational resource**

1. Electronic address site university: <http://vnm.edu.ua>
2. Electronic address site libraries [the university](http://library.vnm.edu.ua/) : HYPERLINK "http://library.vnm.edu.ua/"

<http://library.vnmu.edu.ua>

3. World organization protection health

4. <http://www.who.int/en/> Center testing

5. <https://www.testcentr.org.ua/uk/> Ministry of Health of Ukraine

6. <https://moz.gov.ua/> Center public health Ministry of Health of Ukraine

7. <https://phc.org.ua/kontrol-zakhvoryuvan>

9. **The schedule and distribution of groups by teachers** is published on the web pagedepartment (( <https://www.vnmu.edu.ua/> / chair physical education and Physical exercise/ student).

Syllabus for the discipline " Non-drug methods of treatment and rehabilitation" discussed and approved at a meeting of the Department of Physical Education and Physical Therapy (protocol #1, from " 29 » August 2023 year

Responsible by Associate Professor course

*(signature)*

Yuriy KYRYCHENKO

Head professor of the department

*(signature)*

Larisa SARAFINYUK