



Non-profit educational institution
Educational-scientific-production complex
"International University of Kyrgyzstan"

Quality Management System
SYLLABUS «Oncology»
"General Medicine» ISM

**International School of Medicine
Department of " Special clinical disciplines "**

SYLLABUS

"General physical therapy "


main educational program
in the specialty General Medicine (for foreign citizens)

graduate qualification: general practitioner

Full-time education

Well	3
Semester	6
Credit / Exam (semester)	1
Total Curriculum Credits	30
Total curriculum hours	30

Bishkek 2022

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1. The work program of the academic discipline

1.1. Explanatory note

Mission of ISM IUK - *training of competent specialists in the field of medicine, corresponding to international standards and traditions of medical ethics, ready for continuous professional growth using modern achievements of science and practice, to solve public health problems.*

Annotation of the academic discipline

Physiotherapy is an integral part of the complex treatment and rehabilitation of sick and disabled people. The rational use of physiotherapeutic factors increases the effectiveness of treatment, promotes faster recovery or compensation of body functions disturbed by the disease, prevents the development of disease complications, and reduces the side effects of drugs. In this regard, the training of qualified physiotherapy specialists is of utmost importance. Mastering the knowledge and skills in the field of physiotherapy will allow future doctors to conduct effective complex treatment and medical rehabilitation of patients with various nosological forms of diseases and the disabled. Thus, physiotherapy is a fundamental part of the clinical training of a young specialist.


The purpose and objectives of the discipline

The purpose of the discipline

Formation of students' universal and professional competencies to provide highly qualified medical care in accordance with established requirements and standards in the field of healthcare.

Discipline objectives:

- - to form an extensive and deep volume of basic, fundamental medical knowledge that forms the professional competencies of a doctor who is able to successfully solve his professional tasks;
- to form and improve the professional training of a physiotherapist who has clinical thinking, is well versed in pathology, and has in-depth knowledge of related disciplines;
- to form skills in mastering the latest technologies and methods in the field of their professional interests;
- preparation of a specialist physiotherapist for independent professional medical and diagnostic activities, able to conduct a differential diagnostic search, provide full

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medical care, carry out preventive and rehabilitation measures to preserve life and health in all age periods of life and successfully solve their professional tasks;

- to form and improve a system of general and special knowledge, skills that allow the doctor to freely navigate the organization and economics of healthcare, insurance medicine, medical psychology, taking into account the requirements of regulatory legal acts, procedures and standards for the provision of medical care.

Place of discipline in the structure of OOP (prerequisites, postrequisites)

The discipline "General physical therapy" is included in the basic part of the professional cycle of the EUP UPPK "MUK" MShM for the specialty "General Medicine" (code 560001). This discipline is studied by students of the specialty General Medicine (for foreign citizens) and is included in the mandatory scope of the studied disciplines of the State Educational Institution of Higher Professional Education.

For the successful development of this discipline, students must master the following disciplines:

- topographic anatomy,
- normal physiology,
- Histology,
- Pathological physiology.

In the future, the knowledge gained in the course of studying the discipline "General Physiotherapy" will be necessary when studying the following disciplines:

- Pediatrics,
- Urology,
- Radiation diagnostics,
- Neurology,
- Therapy.

Competencies of students, formed as a result of mastering the discipline, the planned results of mastering the discipline -

Graduate in the specialty "General Medicine" with the assignment of the qualification of a specialist "Doctor general practice" in accordance with the State Educational Institution of Higher Professional Education and PLO and the tasks of professional activity, must have the following professional competencies:

Code	Content of competence
PC-20	is able to give recommendations on the choice of regimen, determine indications and contraindications for the appointment of physical therapy, physiotherapy, non-drug therapy, use the main resort factors in the treatment of adults and children.
PC-27	ready to study scientific and medical information, domestic and foreign



experience on the research topic

After mastering this discipline, the student:

will know:

- the role of physiotherapy in the complex of therapeutic and preventive measures in the treatment of diseases
- indications and contraindications for physiotherapeutic treatment of diseases, basic physiotherapeutic methods of treatment
- the main mechanisms of physical impact on tissues and organs, the basic principles of physiotherapy.

will be able to:

- carry out preventive measures with patients and their relatives to increase the body's resistance to adverse environmental factors using various methods
- use scientific and popular science literature, the Internet for professional activities;
- carry out statistical data processing;

will understand:

- general issues of organization of physiotherapy services;
- the mechanism of action of physical factors, the influence of physical factors on main pathological processes and functions of various organs and systems organism;
- principles of compatibility and consistency in the appointment of physical factors and procedures;
- principles for assessing the indicators of general and functional methods of examination of patients referred for physiotherapy;
- the main clinical symptoms and syndromes of diseases in which physiotherapy methods are used;
- principles of using physical factors for disease prevention and rehabilitation of patients, incl. dispensary groups;
- indications and contraindications for the use of physical factors;

will be able to:

- analyze and interpret the totality of clinical data, laboratory parameters and instrumental diagnostic methods for diagnosing diseases and determining the tactics of therapy.
- to exercise professional competencies provided for by the main educational program.


1.2. Recommended educational technologies

For the development of students of the academic discipline "General Physiotherapy", the acquisition of knowledge and the formation of professional competencies, the following educational technologies are used:

- classes with elements of discussion, problem posing;
- electronic presentations;
- analysis of specific situations;
- small group method,
- analysis of clinical cases,
- situational tasks,
- visiting medical conferences, consultations,
- participation in scientific and practical conferences, congresses, symposiums,
- preparation and defense of abstracts

1.3. The scope of the discipline and types of educational work

According to the curriculum 2022	6 sem.	Total	
		in hours	in credits
Total labor intensity	30h	30	1
Classroom work	30h	30	
Lectures			
Practical lessons	18h	18	
Seminars			
Laboratory works			
Independent work	12	12	
CPC	8	8	
SRSP	4	4	
Final control type	offset		


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1.4. Discipline structure


1.4.1. Thematic plan for the study of the discipline

6 semester 3 course

N o.	Name sections and topics disciplines (lectures and practical exercises)	Auditory lessons				Total hours on classroom work	SRSP	Student independent work	Formed Competence	Used educational technologies, methods of teaching	Forms of current and midterm control academic performance
		lectures		practical lessons							
	"Therapeutic exercise", 6 semester										
1	Organizational issues of General physiotherapy. Physiotherapeutic terminology and concepts. Definitions. Classification. The main directions of physical medicine.			2		4	1	2	PK20, 27 PK	LC	Assessment of the development of practical skills (abilities)
2	Low voltage direct current. Galvanization. Medicinal electrophoresis			2		4	2	2	PK20, 27 PK	LC, RI	Assessment of the development of practical skills (abilities), solving situational problems
3	Impulse currents of low voltage. Electrosleep. Diadynamometry.			2		4	2	2	PK20, 27 PK	LC,D	Assessment of the development of practical skills

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	Amplipulse therapy. Interference therapy. Fluctuorization. Electrodiagnostics. Electrical stimulation.										(abilities) preparation of a report,
4	Electric currents of high voltage. Ultrasonotherapy. Darsonvalization. Inductotherapy. UHF therapy. Decimeter therapy. centimeter therapy. Extreme high frequency therapy.			2		4	1	2	PK20, PK 27	LC, MG	Assessment of the development of practical skills (abilities), preparation of a report
5	Electric, magnetic and electromagnetic fields of various characteristics. Franklinization. High frequency magnetotherapy.			2		4	1	2	PK20, PK 27	LC, MSH	Assessment of the development of practical skills (abilities), preparation of a report
6	Electromagnetic oscillations of the optical (light) range. Infrared radiation. visible light. Chromotherapy. Ultraviolet radiation. Laser therapy.			2		4	1	2	PK20, PK 27	LC, RI	Assessment of the development of practical skills (abilities), preparation of a report
7	Mechanical oscillations of the medium. Massotherapy. Pressotherapy. ultrasound therapy. Shock wave therapy. Medicinal			2		4	1	2	PK20, PK 27	LC, MG	Assessment of the development of practical skills (abilities), preparation of a report

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	phonophoresis.											
8	Changed or special air environment. Aerosol and electroaerosol therapy. Halotherapy. Hyperbaric oxygenation. Aeroionotherapy. Climatotherapy.			2		4	1	2	PK20, 27	PK	LC,TP	Assessment of the development of practical skills (abilities), preparation of a report
9	Hydrotherapy. Heat therapy. Cryotherapy.			2		4	2	2	PK20, 27	PK	LC,RI	Assessment of the development of practical skills (abilities) preparation of a report,
	Module											Testing

Abbreviation for designations of educational technologies, methods and methods of teaching: traditional lecture (L), lecture-visualization (LP), problem lecture (LP), lecture-press conference (LPK), lesson-conference (LC), training (T), debate (D), brainstorming (MSH) , master class (MC), "round table" (CC), activation of creative activity (ATD), regulated discussion (RD), forum type discussion (F), business and role-playing educational game (CI, RI), small group method (MG), classes using simulators, simulators (TP), computer simulation (CS), analysis of clinical cases (CS), preparation and protection of medical history (IB), use of computer training programs (COP), interactive atlases (IA), attending medical conferences, consultations (VC), participation in scientific and practical conferences (NPK), congresses, symposia (Sim), educational and research work of a student (UIRS), conducting subject Olympiads (O), preparation of written analytical works (AR), preparation and defense of abstracts (P), design technology (PT), excursions (E), distance educational technologies (DOT).


Reducing the forms of current and midterm monitoring of academic performance: T - testing, Pr - assessment of the development of practical skills (abilities), 3C - solving situational problems, KP - control work, K3 - control task, IB - writing and protecting a case history, CL - writing and protecting a curatorial sheet, R - writing and defense of the abstract, C - interview on control questions, D - preparation of a report, etc.

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1.4.2. Organization of students' independent work

6 semester 3 course

No .	The topic of the student's independent work:	SRS task	Timing surrender (week number)
1.	Organizational issues of General physiotherapy. Physiotherapeutic terminology and concepts. Definitions. Classification. The main directions of physical medicine.	Abstract, presentation	1
2.	Low voltage direct current. Galvanization. Medicinal electrophoresis	Abstract, presentation	2
3.	Impulse currents of low voltage. Electrosleep. Diadynamometry. Amplipulse therapy. Interference therapy. Fluctuorization. Electrodiagnostics. Electrical stimulation.	Abstract, presentation	3
4.	Electric currents of high voltage. Ultratonotherapy. Darsonvalization. Inductotherapy. UHF therapy. Decimeter therapy. centimeter therapy. Extreme high frequency therapy.	Abstract, presentation	4
5	Electric, magnetic and electromagnetic fields of various characteristics. Franklinization. High frequency magnetotherapy.	Abstract, presentation	5
6	Electromagnetic oscillations of the optical (light) range. Infrared radiation. visible light. Chromotherapy. Ultraviolet radiation. Laser therapy.	Abstract, presentation.	6
7	Mechanical oscillations of the medium. Massotherapy.	Abstract, presentation.	6

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	Pressotherapy. ultrasound therapy. Shock wave therapy. Medicinal phonophoresis.		
8	Changed or special air environment. Aerosol and electroaerosol therapy. Halotherapy. Hyperbaric oxygenation. Aeroionotherapy. Climatotherapy.	Abstract, presentation.	7
9	Hydrotherapy. Heat therapy. Cryotherapy.	Abstract, presentation	7

1.4.3. Evaluative Assessment Tools


Current and milestone (modular) control

Current control of students' knowledge may represent:

- oral questioning;
- solving situational tasks;
- assessment of the development of practical skills;
- control task; test;
- checking the completion of written homework;
- checking abstracts, presentations.

Abstract topics:

- 1)Organizational issues of General physiotherapy. Physiotherapeutic terminology and concepts. Definitions. Classification. The main directions of physical medicine.
- 2)Low voltage direct current. Galvanization. Medicinal electrophoresis
- 3)Impulse currents of low voltage. Electrosleep. Diadynamometry. Amplipulse therapy. Interference therapy. Fluctuorization. Electrodiagnostics. Electrical stimulation.
- 4)Electric currents of high voltage. Ultratonootherapy. Darsonvalization. Inductotherapy. UHF therapy. Decimeter therapy. centimeter therapy. Extreme high frequency therapy.
- 5)Electric, magnetic and electromagnetic fields of various characteristics. Franklinization. High frequency magnetotherapy.
- 6)Electromagnetic oscillations of the optical (light) range. Infrared radiation. visible light. Chromotherapy. Ultraviolet radiation. Laser therapy.
- 7)Mechanical oscillations of the medium. Massotherapy. Pressotherapy. ultrasound therapy. Shock wave therapy. Medicinal phonophoresis.

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8) Changed or special air environment. Aerosol and electroaerosol therapy. Halotherapy. Hyperbaric oxygenation. Aeroionotherapy. Climatotherapy.
9) Hydrotherapy. Heat therapy. Cryotherapy.

COURSE POLICY AND EVALUATION CRITERIA:

The control of students' knowledge is carried out according to the point-rating system in accordance with the standard "Regulations on the modular point-rating system for assessing the knowledge of students at the NOU UNPK" International University of Kyrgyzstan".

Discipline "General physical therapy" includes 1 block, evaluated on a 100 point system:

Maximum score -100, of which:

- attendance - 20 points;
- current control - 40 points (20 points - for classroom work, 20 points - for independent work),
- midterm control (delivery of the module) - 40 points.

The results of the 2 modules are added up and the average score is displayed.


Scoring Policy	Module 1	Module 2, etc.
Attendance	20 points	20 points
Classroom work (activity in discussions, during oral questioning, work in groups, etc.)	20 points	20 points
Independent work: essay, report	20 points	20 points
Total by module (testing)	40 credits	40 credits
Total by discipline:	100 points	
Exam		

Final control in the form of offset is carried out based on the results of attendance, current and midterm (modular) control.

Final control form - offset.

To assess the student's progress, the following scale of correspondence between grades and points is used:

Scale of correspondence of grades and points	
Maximum	Intervals

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score	"Unsatisfactory"	"satisfactorily"	"OK"	"Great"
twenty	0-11	12-15	16-17	18-20
40	0-23	24-30	31-35	36-40
60	0-35	36-45	46-53	54-60
100	0-59	60-75	76-89	90-100