


Ministry of Education and Science of RF Ulyanovsk State University	Form	
F – Educational plan of the discipline		

APPROVED BY



by the decision of the Academic Council of the USU
Institute of Medicine, Ecology and Physical Culture

16.05.2024 Record no. 9/260

Chairman _____ Mashin V.V.

(signature, name)

« 16 » May 2024.

EDUCATIONAL PLAN

Course:	The practical use of ICF in rehabilitation for various pathologies
Faculty	Medical
Department:	Psychiatry, Narcology and Medical Psychology
Grade	IV

Direction (specialty) 31.05.01 General medicine

the code of the direction (specialty), full name

Orientation (profile/specialty) not provided

full name

Form of training full-time

full-time, part-time, part-time (specify only those that are being implemented)

Date of introduction into the academic process at Ulyanovsk State University:

« 01 » September 2024 г.


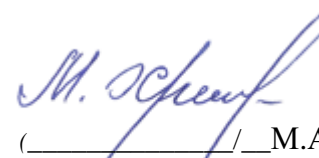
The program was updated at the meeting of the department: № _____ of _____ 20__.


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Information about developers:

Full name	Abbreviation of Department	Academic, degree, title
Yarzutkin S.V.	DPNMP	Associate Professor, PhD

AGREED	AGREED
Head of department, developing discipline	Head of the graduating Department
 _____ / Sabitov I.A. / « 15 » May 2024.	 (_____ / M.A. Wize-Chripunova / « 15 » May 2024 г.

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1. OBJECTIVES AND AIM OF DISCIPLINE «THE PRACTICAL USE OF ICF IN REHABILITATION FOR VARIOUS PATHOLOGIES»:

The aim of discipline to form the necessary amount of knowledge about rehabilitation technologies for various types of pathology among students on the basis of the integration of clinical knowledge obtained during previous training for the purpose of rehabilitation.

List of Objectives that students have to solve in the course of studying the discipline :

1. Acquaintance with the main organizational approaches of medical rehabilitation in Europe ("White book on physical and rehabilitation medicine in Europe", 2016).
2. The study of methods for assessing functional disorders, various tools for assessing functioning.
3. The study of the mechanisms of the therapeutic effect of kinesiotherapy, occupational therapy, speech therapy, psychology and other technologies of multi-professional rehabilitation.
4. Introduction to the methodology of prescribing rehabilitation therapeutic measures, the features of their implementation in the form of monoprofessional and multi-professional rehabilitation.
5. The study of various aspects of medical and psychological rehabilitation - a biomedical and biopsychosocial approach in medicine and rehabilitation.
6. Familiarization of students with equipment and technical means of medical rehabilitation.
7. Familiarization of students with the methodological foundations of the principles and organizational approaches in the acute period of illness or injury.
8. Familiarization of students with the basic principles and organizational approaches of medical rehabilitation in clinical practice (neurology, cardiology, traumatology and orthopedics, pulmonology, pediatrics, geriatrics).

2. PLACE OF THE SUBJECT IN THE STRUCTURE OF GEP:


Discipline "Practical application of ICF in rehabilitation for various pathologies" refers to electives in the specialty "general medicine".

The basis for the study of the discipline "Practical use of ICF in rehabilitation for various pathologies" is a system of information on medical rehabilitation, pathological anatomy and physiology, psychology and pedagogy of medical activity, propaedeutics of internal diseases, formed during the study at previous courses, as well as knowledge and skills acquired in the process of mastering the optional course "Biopsychosocial approach to medical rehabilitation". The discipline has interdisciplinary connections with the disciplines of Neurology and Neurosurgery, Psychiatry, Clinical Psychology, Bioethics, Traumatology and Orthopedics, Cardiology.

The study of the elective course "Practical application of ICF in rehabilitation for various pathologies" helps to integrate the clinical knowledge gained during previous training at theoretical and clinical departments into the process of medical and social rehabilitation assistance needed by a doctor of any profile to fulfill his professional duties.

3. LIST OF EXPECTED RESULTS OF INSTRUCTION ON THE SUBJECT (UNIT), CORELATED WITH PLANNED RESULTS OF COMPLETING THE PROGRAM

Competence index. Content of a competence (or a part of it)	The proposed results of the course students are:
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UC-2 Ability to manage a project at all stages of its life cycle	<p>Know the stages of the project life cycle, the stages of its development and implementation.</p> <p>Be able to develop a project taking into account the analysis of alternative options for its implementation, determine the target stages, the main directions of work.</p> <p>Master the methods of project development and management</p>
PC-4 Readiness to determine the need for the use of natural therapeutic factors, medicinal, non-drug therapy and other methods in patients who need medical rehabilitation and spa treatment	<p>Know the methods of administration of medicines in patients with various diseases who need medical rehabilitation and spa treatment.</p> <p>Be able to apply various methods of drug administration in patients with various diseases in need of medical rehabilitation and sanatorium-resort treatment</p> <p>Own the skills of using different methods of drug administration in sanatorium-resort conditions in patients who need medical rehabilitation and sanatorium-resort treatment</p>

4. Volume of the subject

4.1. Volume of the subject in credit points (total): 2 credit points

4.2. On types of academic workload (in hours): 72/72* hours

Type of academic work	Number of hours (form of education - full time)		
	Total according to the plan	Including on semesters	
		7	8
1	2	3	4
Work of students with a teacher	34/34*	34/34*	
Classes:			
lectures	8/8*	8/8*	
practical classes and seminars	26/26*	26/26*	
lab classes (practical lessons)	-	-	
Self-study work	38	38	
Concurrent control (number and type: a test, a colloquium, a report)	Testing, solving situational problems	Testing, solving situational problems	
Course paper	Protection of the training project	-	
Types of intermediate attestation (examination, test)	credit	credit	
Total number of hours on the subject	72/72*	72/72*	

* The number of hours of work of teaching staff with students in a distance format using e-learning

4.3. Contents of the discipline (module). Distribution of hours on themes and kinds of

study: Number of hours – 72 h

Form of study: full-time

Name of sections and themes	Total	Activity format					Form of current control
		Auditory lessons			Inter-active classes	Self-study work	
		Lectures	Practical classes, seminars	Laboratory work			
1	2	3	4	5	6	7	
Section 1. Methodology of physical and rehabilitation medicine							
A problem-oriented approach in medical rehabilitation.	4	1	1			2	control work, tests
Technologies of physical rehabilitation for the most common pathological conditions.	4	1	1			2	control work, tests, situational tasks
Technologies of psychological rehabilitation.	4	1	1			2	control work, tests, situational tasks
The basics of ergotherapy in the rehabilitation process	4	1	1			2	control work, tests
Social Rehabilitation Technologies	4	1	1			2	control work, tests, situational tasks
Modern technologies of kinesiology exposure in the process of rehabilitation	3	1	1			1	control work, tests, situational tasks
Modern technical means of rehabilitation	2		1			1	control work, tests
Assistive technology in rehabilitation	2		1			1	control work, tests, situational tasks
Modern digital and information technologies in rehabilitation	3	1	1			1	control work, tests, situational tasks
	36	9	18			9	
Module 2. Methodology of medical and non-medical rehabilitation in neurology							
Forms and methods of medical and non-medical rehabilitation in neurology	4	1	1			2	control work, tests
A multidisciplinary	2		1			1	control

approach to the rehabilitation of stroke patients							work, tests, situational tasks
A multidisciplinary approach to patients with swallowing disorders	2		1			1	control work, tests, situational tasks
Multidisciplinary approach to patients with impaired motor function of limbs	2		1		*	1	control work, tests
Multidisciplinary approach to patients with impaired coordination of movements	2		1		*	1	control work, tests, situational tasks
Multidisciplinary approach to patients with impaired consciousness	2		1			1	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of patients with speech impairment	2	2	1			1	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of patients with cognitive impairment	2	1	1			1	control work, tests, situational tasks
Module 3. Methodology of medical and non-medical rehabilitation in traumatology and orthopedics							
A problem-oriented approach to the rehabilitation of trauma patients	3		2			1	control work, tests, situational tasks
Forms and methods of medical and non-medical rehabilitation in traumatology and orthopedics	3		1		*	2	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of patients after fractures of limbs	2		1			1	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of patients after hip replacement	2		1		*	1	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of patients after knee replacement	1					1	control work, tests, situational tasks
A multidisciplinary	1				*	1	control

approach to the rehabilitation of patients after injuries of the spine and pelvic bones							work, tests, situational tasks
Module 4. Methodology of medical and non-medical rehabilitation in a somatic and psychiatric clinic							
A problem-oriented approach to the rehabilitation of patients with a cardiorespiratory profile	1					1	control work, tests, situational tasks
Forms and methods of medical and non-medical rehabilitation for coronary heart disease and myocardial infarction	2		1		*	1	control work, tests, situational tasks
Forms and methods of medical and non-medical rehabilitation for COPD	1					1	control work, tests, situational tasks
Multidisciplinary management of patients with metabolic syndrome	1					1	control work, tests, situational tasks
A multidisciplinary approach to rehabilitation after coronary artery bypass grafting	1					1	control work, tests, situational tasks
Features of the rehabilitation of gerontological patients	2		1			1	control work, tests, situational tasks
A multidisciplinary approach to mental health rehabilitation	2		1			1	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of children with developmental disabilities	1		1			1	control work, tests, situational tasks
Total	72	8	26			38	


5. COURSE CONTENT

Module 1. Modern technologies of medical and non-medical rehabilitation

Topic 1. Problem-oriented approach in medical rehabilitation.

The content of the topic:

Basic principles of rehabilitation. Interdisciplinary rehabilitation team. Problem-oriented and patient-centered approaches to patient rehabilitation. Compiling a list of patient problems in the ICF concept for various pathologies. Organization of medical rehabilitation. Routing Patients. Stages of Rehabilitation. Special goals, levels and adequacy of rehabilitation measures

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Appointment and features of rehabilitation measures

The system of phased rehabilitation of patients. Assessment of the effectiveness of rehabilitation treatment

Topic 2. Technologies of physical rehabilitation for the most common pathological conditions.

The content of the topic:

Basic principles of physical rehabilitation. General characteristics of the means of physical rehabilitation. Periods of exercise therapy and the corresponding modes of motor activity. Calculation of the level of physical activity in various motor modes. Determination of indications and contraindications for exercise therapy. Determination of exercise tolerance. Forms and methods of physical rehabilitation. Posture treatment (postural exercises)

Technology for restoring broken or forming new motor stereo types.

Theme 3. Technologies of psychological rehabilitation

The content of the topic:

The main psychological problems that arise in the process of rehabilitation during disabling conditions. Features of psychodiagnostics in rehabilitation. ICF in the work of a psychologist. Domains of activity and participation, their assessment. Psychological support of the patient and his relatives during rehabilitation. The main psychotherapeutic methods of interaction with patients in rehabilitation.

Theme 4. The basics of ergotherapy in the rehabilitation process

The content of the topic:

The basics of ergonomics of mental activity. Methodological foundations for organizing the process of ergotherapy. Ergotherapy and people with mental or physical dysfunctions. The process of ergotherapy and the boundaries of therapeutic rationality. Formative and summary assessment in ergotherapy. Examination of the patient's daily activities, identifying the limitations and opportunities of activity (preserved and reserve). Personal factors affecting the activity and their correction. Ergotherapy scales for assessing ICF domains in rehabilitation.

Theme 5. Technologies of social rehabilitation

The content of the topic:

Methods of sociological research in rehabilitation. Social and environmental diagnostics. Organization of social rehabilitation of the disabled. Socialization and resocialization in rehabilitation. Personal characteristics of a person affecting his activities.

Professional psychophysiological diagnosis.

Professional education. Labor and household device. Systemic mechanisms of labor.

Chronodiagnostics as a basis for optimizing the regime of the rehabilitation process

Biofeedback.


Rehabilitation and technological foundations of special pedagogy.

The main types of social situations and communication productivity. Psychological compatibility. Socio-psychological species diversity of communication. Styles and types of interaction. Socio-psychological patronage of a disabled person and his family.

Bioenergy need for various activities.

Technologies of social rehabilitation. Forms and methods of social rehabilitation in various diseases and in various categories of persons with disabilities.

Theme 6. Modern technologies of kinesiology impact in the process of rehabilitation

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Topic content: Analytical methods of neuromotor (neuromuscular) re-education (beatings): the method of sister E. Kenny, method of V.M. Phelps. . General methods of neuromuscular re-education: method H. Kabat Method K. and B. Bobath Method V. Vojta. Rehabilitation and technological aspects of manual therapy, reflex-puncture therapy. Exercises aimed at the development of simple motor acts. Exercises aimed at inhibiting pathological post-tonic reflexes. Exercises aimed at restoring balance. Conducted pedagogy (therapy)
Kinesiotherapy.

Theme 7. Modern technical means of rehabilitation

Topic content: technical means for rehabilitation, including medical complexes and equipment, systems of mechanical correction of the musculoskeletal system, prostheses of organs and limbs. Technical means for violations of the function of the sensor system.

Theme 8. Assistive technologies in rehabilitation

Content: Types and forms of social mobility. Mobility groups (definition, criteria, parameters). Stages and areas of formation of an accessible living environment. Legal aspects of the formation of an accessible living environment. Environmental survey and its impact on activities.

Rehabilitation institutions. Models of rehabilitation programs and practices. Exit forms of medical and social rehabilitation.

Conceptual foundations of an architectural environment adapted for people with limited mobility. Environment in stationary institutions of social services for persons with disabilities. Design of functional and aesthetic clothing and orthopedic shoes, alternative communication technologies for adults and children, IT tracking, a range of services for the use of assistive technologies for the disabled.

Features of equipping an apartment for a disabled person with various types of disabilities.

Theme 9. Modern digital and information technologies in rehabilitation

The content of the topic: VR, AR, MR and any other types of realities in rehabilitation. Wear-May electronics, devices for monitoring functional health indicators, neurocontrol.

Module 2. Methodology of medical and non-medical rehabilitation in neurology

Topic 1. Forms and methods of medical and non-medical rehabilitation in neurology

Topic content: Principles of applying the method of therapeutic physical culture in neurological and neurosurgical clinics.


Theme 2. A multidisciplinary approach to the rehabilitation of stroke patients

Content: Features of the rehabilitation of patients with strokes. Assessment of limitations of the vital activity of a patient with a stroke from the position of the ICF. Features of the routing of patients with strokes. Technologies for determining the rehabilitation potential for strokes. Patient care at various stages of rehabilitation. Prevention of pressure sores, swelling, posture Wernicke-Mann.

Theme 3. A multidisciplinary approach to patients with swallowing disorders

Topic content: Clinical guidelines for the management of patients with swallowing disorders. The role of speech therapists in rehabilitation for dysphagia. Features nutrition with dysphagia. Formulation of a rehabilitation diagnosis for dysphagia. Scales used to evaluate swallowing function. Individual rehabilitation program for dysphagia.

Theme 4. A multidisciplinary approach to patients with impaired motor functions of the limbs

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Topic content: Clinical recommendations for the management of patients with paralysis and paresis of limbs. The role of the physical therapist and occupational therapist in the rehabilitation of motor disorders. Formulation of a rehabilitation diagnosis for paralysis and paresis. Scales used in the assessment of motor activities. Individual rehabilitation program for paralysis and paresis. The basics of positioning of patients with motor disorders in the acute period of stroke. Features of verticalization of patients in the acute period of stroke.

Theme 5. Multidisciplinary approach to patients with impaired coordination of movements

Topic content: Clinical guidelines for the management of patients with imbalances. The role of the physical therapist and occupational therapist in rehabilitation for impaired coordination of movements. Formulation of a rehabilitation diagnosis in case of coordination disorders. Scales used in evaluating coordinator functions. Individual rehabilitation program for imbalances.

Theme 6. A multidisciplinary approach to patients with impaired consciousness

Topic content: Clinical recommendations for the management of patients with impaired consciousness. Features of the MDB with patients in a coma. Formulation of a rehabilitation diagnosis for impaired consciousness. Scales used in assessing consciousness. Individual rehabilitation program for impaired consciousness.

Theme 7. A multidisciplinary approach to the rehabilitation of patients with speech impairment

Topic content: Clinical recommendations for the management of patients with dysarthria and various types of aphasia. Speech and neuropsychological rehabilitation of patients with speech disorders. The basics of alternative communication with patients with speech disorders. Formulation of a rehabilitation diagnosis for speech disorders. Scales used in assessing aphasia. Individual rehabilitation program for speech impairment. The role of the medical psychologist and speech therapist in the rehabilitation of speech disorders.

Theme 8. A multidisciplinary approach to the rehabilitation of patients with cognitive impairment

Topic content: Clinical recommendations for the management of patients with impaired regulatory functions. Neuropsychological rehabilitation of patients with impaired cognitive functions. Diagnosis of cognitive impairment. Formulation of a rehabilitation diagnosis for cognitive impairment. Scales used in assessing cognitive impairment. Individual rehabilitation program for cognitive impairment. The role of the medical psychologist in the rehabilitation of cognitive impairment. Examples of schools for patients and their relatives: "Memory", "Patient care after a stroke."

Module 3. Methodology of medical and non-medical rehabilitation in traumatology and orthopedics


Topic 1. A problem-oriented approach to the rehabilitation of traumatic-logical patients

Content of the topic: The main disability in traumatological patients. Formulation of a rehabilitation diagnosis. Psychological problems of trauma patients. Indications and contraindications for rehabilitation in trauma patients.

Theme 2. Forms and methods of medical and non-medical rehabilitation in traumatology and orthopedics

Contents of the topic: Features of the appointment of physical rehabilitation in traumatology. Individual rehabilitation program in trauma practice. Prosthetics, orthoses, technical rehabilitation equipment.

Theme 3. A multidisciplinary approach to the rehabilitation of patients after fractures of limbs

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Content: Basic principles for the rehabilitation of bone fractures. Stages and terms of recovery after fractures of limb bones. Features of the motor regime in fractures of the upper and lower extremities. The formulation of the rehabilitation diagnosis in the categories of ICF. WHO Drop Prevention Program (fall and equilibrium risk assessment, exercise, correction of drug therapy, adaptation of the environment, training).

Theme 4. A multidisciplinary approach to the rehabilitation of patients after hip replacement
Contents of the topic: Features of rehabilitation after hip replacement. Terms and types of motor mode. Indications and contraindications. Rehabilitation tools

Topic 5. A multidisciplinary approach to the rehabilitation of patients after knee endoprosthesis replacement
Contents of the topic: Features of rehabilitation after knee replacement. Terms and types of motor mode. Indications and contraindications. Rehabilitation tools

Theme 6. A multidisciplinary approach to the rehabilitation of patients after injuries of the spine and pelvic bones
Contents of the topic: Features of rehabilitation for fractures of the spine and pelvic bones. Psychological phenomena when prolonged immobilization is necessary. Psychocorrection with an adverse outcome of the injury. Features of the internal picture of the disease in trauma patients. Cognitive-behavioral psychotherapy of pain behavior.


Module 4. Methodology of medical and non-medical rehabilitation in a somatic and psychiatric clinic

Topic 1. A problem-oriented approach to the rehabilitation of patients with cardiorespiratory profile
Contents of the topic: Disability of patients with ischemic heart disease with and without rhythm disturbances. Disability in patients with COPD. Compilation of a list of problems of patients with a cardiorespiratory profile in the ICF concept.

Topic 2. Forms and methods of medical and non-medical rehabilitation for coronary heart disease and myocardial infarction
Contents of the topic: Indicators for assessing the function of blood supply. The main forms and methods of rehabilitation of patients with coronary heart disease. Indications and contraindications for physical rehabilitation. Psychological support for patients with coronary heart disease. General principles of physical testing in cardiac rehabilitation. General principles for changing diet during cardiac rehabilitation

Topic 3. Forms and methods of medical and non-medical rehabilitation in COPD
Content: The main forms and methods of rehabilitation for COPD. Calculation of the level of physical activity in various motor modes, assessment of shortness of breath and effort on the Borg scale.
Examples of Patient Schools: Pulmonary Rehabilitation (COPD School). Individual rehabilitation program.

Theme 4. Multidisciplinary management of patients with metabolic syndrome
Contents of the topic: Dietotherapy. Features of the motor regime and physical rehabilitation of patients with metabolic syndrome. Psychocorrection and psychotherapy in the rehabilitation of patients with metabolic syndrome.

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An example of a school of patients “Metabolic syndrome”, “Diabetes mellitus”.

Theme 5. A multidisciplinary approach to rehabilitation after coronary artery bypass grafting

Content: Psychological preparation for the operation of coronary artery bypass grafting. Cardiac neurological disorders and their correction. Features of physical rehabilitation, timing and methods.

Topic 6. Features of the rehabilitation of gerontological patients

Contents of the topic: Features of the rehabilitation of elderly patients. Medication support of the rehabilitation process, motor mode, psychological support.

"School of a patient with osteoporosis."

Theme 7. A multidisciplinary approach to rehabilitation in mental illness

Subject Content: Comprehensive rehabilitation for schizophrenia. Features of rehabilitation in alcoholism and drug addiction. The role of medical psychologist and psychotherapist. Ergotherapy.

Topic 8. A multidisciplinary approach to the rehabilitation of children with developmental disabilities.

Content: Features of the rehabilitation of children. Rehabilitation programs for children with mental retardation, autism. Alternative communication technologies. Diagnosis of MMD. Drug support. Technologies of neuropsychological rehabilitation by the method of replacement ontogenesis. Biofeedback.

6. TOPICS OF PRACTICAL AND SEMINAR ACTIVITIES

Module 1. Modern technologies of medical and non-medical rehabilitation

Theme 1. Problem-oriented approach in medical rehabilitation.

form: seminar

Issues for discussion:

1. The basic principles of rehabilitation. Interdisciplinary rehabilitation team.
2. Problem-oriented and patient-centered approaches to patient rehabilitation.
3. Compiling a list of patient problems in the ICF concept for various pathologies.
4. Organization of medical rehabilitation.
5. Special goals, levels and adequacy of rehabilitation measures
6. The system of phased rehabilitation of patients.
7. Evaluation of the effectiveness of rehabilitation treatment

Theme 2. Technologies of physical rehabilitation for the most common pathological conditions.


form: seminar

Issues for discussion:

1. The basic principles of physical rehabilitation.
2. General characteristics of physical rehabilitation.
3. Periods of exercise therapy and the corresponding modes of motor activity.
4. The calculation of the level of physical activity in various motor modes.
5. Determination of exercise tolerance.
6. Forms and methods of physical rehabilitation.
7. Posture treatment (postural exercises)
8. Technology for restoring broken or the formation of new motor stereotypes.

Theme 3. Technologies of psychological rehabilitation

form: seminar

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Issues for discussion:

1. The main psychological problems that arise in the process of rehabilitation in disabling conditions.
2. Features of psychodiagnostics in rehabilitation.
3. IFF in the work of a psychologist. Domains of activity and participation, their assessment.
4. Psychological support of the patient and his relatives during rehabilitation.
5. The main psychotherapeutic methods of interaction with patients in rehabilitation.

Theme 4. The basics of ergotherapy in the rehabilitation process

form: seminar

Issues for discussion:

1. The basics of ergonomics of mental activity.
2. Methodological foundations for organizing the process of ergotherapy.
3. Ergotherapy and people with mental or physical dysfunctions.
4. The process of ergotherapy and the boundaries of therapeutic rationality. Formative and summary assessment in ergotherapy.
5. Examination of the patient's daily activities, identifying the limitations and opportunities of activity (preserved and backup).
6. Ergotherapy scales for assessing ICF domains in rehabilitation.

Theme 5. Technologies of social rehabilitation

form: seminar

Issues for discussion:

1. Methods of sociological research in rehabilitation.
2. Social and environmental diagnostics.
3. Organization of social rehabilitation of disabled people. Socialization and resocialization in rehabilitation.
4. Professional psychophysiological diagnosis.
5. Rehabilitation and technological foundations of special pedagogy.
6. Socio-psychological patronage of the disabled person and his family.
7. Bioenergy need for various activities.
8. Technologies of social rehabilitation.

Theme 6. Modern technologies of kinesiology impact in the process of rehabilitation

form of conduct: master class

Issues for discussion:


1. Methods of neuromotor (neuromuscular) re-education (beatings):
2. Rehabilitation and technological aspects of manual therapy, reflex-puncture therapy.
3. Exercises aimed at the development of simple motor acts.
4. Exercises aimed at inhibiting pathological postural-tonic reflexes.
5. Exercises aimed at restoring balance.
6. Conductive pedagogy (therapy).
7. Kinesiotherapy.

Theme 7. Modern technical means of rehabilitation

form: seminar

Issues for discussion:

1. Technical means for rehabilitation, including medical complexes and equipment.
2. Systems of mechanical correction of the musculoskeletal system,
3. Prosthetics of organs and limbs.

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4. Technical means for impaired function of the sensory system.

Theme 8. Assistive technologies in rehabilitation

form: seminar

Issues for discussion:

1. Stages and areas of formation of an accessible living environment.
2. Legal aspects of the formation of an accessible living environment.
3. A survey of the environment and its impact on activities.
4. The conceptual basis of the architectural environment, adapted for low-mobility categories of the population.
5. The environment in stationary rehabilitation institutions and institutions of social services for persons with disabilities.
6. Design of functional and aesthetic clothing and orthopedic shoes,
7. Alternative communication technologies for adults and children
8. Features of equipping an apartment for a disabled person with various types of disabilities.

Theme 9. Modern digital and information technologies in rehabilitation

form: seminar

Issues for discussion:

1. VR, AR, MR and any other types of realities in rehabilitation.
2. Wearable electronics, devices for monitoring functional health indicators,
3. Technologies of neurocontrol.

Module 2. Methodology of medical and non-medical rehabilitation in neurology

Topic 1. Forms and methods of medical and non-medical rehabilitation in neurology

form: seminar

Issues for discussion:

1. The principles of applying the method of therapeutic physical culture in neurological and neurosurgical clinics.
2. The main forms and methods of rehabilitation in neurology
3. Features of the appointment of rehabilitation measures in a neurological clinic.
4. Definition of the rehabilitation potential and rehabilitation prognosis for various neurological diseases.

Theme 2. A multidisciplinary approach to the rehabilitation of stroke patients

form of conduct: master class

Issues for discussion:


1. Features of the rehabilitation of patients with strokes.
2. Assessment of disability of a patient with a stroke from the position of the ICF.
3. Features of the routing of patients with strokes.
4. Patient care at various stages of rehabilitation.
5. Prevention of pressure sores, swelling, posture Wernicke-Mann.

Theme 3. A multidisciplinary approach to patients with swallowing disorders

form: seminar

Issues for discussion:

1. Clinical guidelines for the management of patients with swallowing disorders.
2. The role of speech therapists in rehabilitation for dysphagia.
3. Features of nutrition in dysphagia.

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4. The formulation of the rehabilitation diagnosis for dysphagia.
5. Scales used to evaluate swallowing function.
6. Individual rehabilitation program for dysphagia.

Theme 4. A multidisciplinary approach to patients with impaired motor functions of the limbs

form: seminar

Issues for discussion:

1. Clinical recommendations for the management of patients with paralysis and paresis of the extremities.
2. The role of the physical therapist and occupational therapist in the rehabilitation of motor disorders.
3. The formulation of the rehabilitation diagnosis for paralysis and paresis.
4. Scales used in the assessment of motor activities.
5. An individual rehabilitation program for paralysis and paresis.
6. Features of verticalization of patients in the acute period of stroke.

Theme 5. Multidisciplinary approach to patients with impaired coordination of movements

form of conduct: master class

Issues for discussion:

1. Clinical guidelines for the management of patients with imbalances.
2. The role of the physical therapist and occupational therapist in rehabilitation for disorders of coordination of movements.
3. The formulation of the rehabilitation diagnosis in case of coordination disorders.
4. Scales used in evaluating coordinating functions.
5. An individual rehabilitation program for imbalances.
6. Restoring balance using a stable platform.

Theme 6. A multidisciplinary approach to patients with impaired consciousness

form: seminar

Issues for discussion:


1. Clinical guidelines for the management of patients with impaired consciousness.
2. Features of the MDB with patients in a coma.
3. The formulation of a rehabilitation diagnosis for impaired consciousness.
4. Scales used in assessing consciousness.
5. An individual rehabilitation program for impaired consciousness.

Theme 7. A multidisciplinary approach to the rehabilitation of patients with speech impairment

form: seminar

Issues for discussion:

1. Clinical recommendations for the management of patients with dysarthria and various types of aphasia.
2. Speech therapy and neuropsychological rehabilitation of patients with speech disorders.
3. The basics of alternative communication with patients with speech impairment.
4. The wording of the rehabilitation diagnosis for speech disorders.
5. Scales used in assessing aphasia.
6. Individual rehabilitation program for speech disorders.
7. The role of the medical psychologist and speech therapist in the rehabilitation of speech disorders.

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Theme 8. A multidisciplinary approach to the rehabilitation of patients with cognitive impairment

form: seminar

Issues for discussion:

1. Clinical recommendations for the management of patients with impaired regulatory functions.
2. Neuropsychological rehabilitation of patients with impaired cognitive functions.
3. Diagnosis of cognitive impairment. Formulation of a rehabilitation diagnosis for cognitive impairment.
4. Scales used in assessing cognitive impairment.
5. An individual rehabilitation program for cognitive impairment.
6. The role of the medical psychologist in the rehabilitation of cognitive impairment.
7. Examples of schools for patients and their relatives: “Memory”, “Caring for a patient after a stroke”.

Module 3. Methodology of medical and non-medical rehabilitation in traumatology and orthopedics

Theme 1. A problem-oriented approach to the rehabilitation of traumatic-injury patients

form: seminar

Issues for discussion:

1. The main limitations of life in trauma patients.
2. The formulation of the rehabilitation diagnosis.
3. Psychological problems of trauma patients.
4. Indications and contraindications for rehabilitation in trauma patients.

Theme 2. Forms and methods of medical and non-medical rehabilitation in traumatology and orthopedics

form: seminar

Issues for discussion:

1. Features of the appointment of physical rehabilitation in traumatology.
2. An individual rehabilitation program in trauma practice.
3. Prosthetics, orthotics, technical means of rehabilitation.

Theme 3. A multidisciplinary approach to the rehabilitation of patients after fractures of limbs

form: seminar

Issues for discussion:


1. The basic principles of the rehabilitation treatment of bone fractures.
2. Stages and terms of recovery after fractures of limb bones.
3. Features of the motor regime in fractures of the upper and lower extremities.
4. The formulation of the rehabilitation diagnosis in the categories of ICF.
5. The WHO program for the prevention of falls (risk assessment of falls and balance, exercise, correction of drug therapy, adaptation of the environment, training).

Theme 4. A multidisciplinary approach to the rehabilitation of patients after hip replacement

form of conduct: master class

Issues for discussion:

1. Features of rehabilitation after hip replacement.
2. Terms and types of motor mode. Indications and contraindications.

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3. Rehabilitation tools

Theme 5. A multidisciplinary approach to the rehabilitation of patients after knee endoprosthesis replacement

form: seminar

Issues for discussion:

1. Features of rehabilitation after knee replacement.
2. Terms and types of motor mode. Indications and contraindications.
3. Rehabilitation tools

Theme 6. A multidisciplinary approach to the rehabilitation of patients after injuries of the spine and pelvic bones

form: seminar

Issues for discussion:

1. Features of rehabilitation for fractures of the spine and pelvic bones.
2. Psychological phenomena when long-term immobilization is necessary.
3. Psychocorrection with an adverse outcome of the injury.
4. Features of the internal picture of the disease in trauma patients.
5. Cognitive-behavioral psychotherapy of chronic pain syndrome.

Module 4. Methodology of medical and non-medical rehabilitation in a somatic and psychiatric clinic

Theme 1. A problem-oriented approach to the rehabilitation of patients with cardiorespiratory profile

form: seminar

Issues for discussion:

1. Disability of patients with coronary artery disease with and without rhythm disturbances.
2. Disability in patients with COPD.
3. Compiling a list of problems of patients with a cardiorespiratory profile in the ICF concept.

Theme 2. Forms and methods of medical and non-medical rehabilitation for coronary heart disease and myocardial infarction

form: seminar

Issues for discussion:


1. Indicators for assessing the function of blood supply.
2. The main forms and methods of rehabilitation of patients with coronary heart disease. Indications and counter-indications for physical rehabilitation.
3. Psychological support for patients with coronary heart disease.
4. General principles of physical testing in cardiac rehabilitation.
5. General principles of changing diet during cardiac rehabilitation

Theme 3. Forms and methods of medical and non-medical rehabilitation in COPD

form: seminar

Issues for discussion:

1. The main forms and methods of rehabilitation for COPD.
2. Calculation of the level of physical activity in various motor modes, assessment of shortness of breath and effort on the Borg scale.
3. Examples of “Patient Schools”: “Pulmonary Rehabilitation (COPD School)”. Individual rehabilitation program.

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Theme 4. Multidisciplinary management of patients with metabolic syndrome

form: seminar

Issues for discussion:

1. Diet therapy.
2. Features of the motor mode and physical rehabilitation of patients with metabolic syndrome.
3. Psychocorrection and psychotherapy in the rehabilitation of patients with metabolic syndrome.
4. An example of a school of patients “Metabolic syndrome”, “Diabetes mellitus”.

Theme 5.A multidisciplinary approach to rehabilitation after coronary artery bypass grafting

form: seminar

Issues for discussion:

1. Psychological preparation for aorto-coronary bypass surgery.
2. Cardiac neurological disorders and their correction.
3. Features of physical rehabilitation, timing and methods.

Theme 6. Features of the rehabilitation of gerontological patients

form: seminar

Issues for discussion:

1. Features of the rehabilitation of elderly patients.
2. Drug support of the rehabilitation process, motor mode, psychological support.
3. "School of a patient with osteoporosis."

Theme 7. A multidisciplinary approach to rehabilitation in mental illness

form: seminar

Issues for discussion:

1. Comprehensive rehabilitation for schizophrenia.
2. Features of rehabilitation for alcoholism and drug addiction.
3. The role of medical psychologist and psychotherapist.
4. Ergotherapy and vocational rehabilitation.

Theme 8.A multidisciplinary approach to the rehabilitation of children with developmental disabilities.

form: seminar

Issues for discussion:

1. Features of the rehabilitation of children.
2. Rehabilitation programs for children with mental retardation, autism. Alternative communication technologies.
3. Diagnosis of MMD. Drug support.
4. Technologies of neuropsychological rehabilitation by the method of replacement ontogenesis.
5. Biological feedback.


7. LABORATORY CLASSES

This type of work is not provided by the curriculum.

8. SUBJECT OF COURSE, CONTROL WORKS, ABSTRACTS

Sample topics of educational projects

1. Rehabilitation for strokes

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2. Rehabilitation for visual impairment
3. Rehabilitation program for spinal cord pathology
4. Rehabilitation program for pathology of the musculoskeletal system
5. Rehabilitation programs in childhood.
6. Features of rehabilitation in oncology
7. Rehabilitation of elderly patients.
8. Rehabilitation for mental illness.
9. Separate rehabilitation techniques


The purpose of the training project: to teach literary analysis skills, to be able to formulate the goal of the project, to master the skill of packing scientific ideas into practical activities to create a project.

Requirements for the volume and design of projects: The volume of 10-15 pages, including the front page, project passport, presentation.

9. QUESTIONS FOR EXAM ON DISCIPLINE "THE PRACTICAL USE OF ICF IN REHABILITATION FOR VARIOUS PATHOLOGIES"

A numbered list of questions for the exam is given.


1. The concept of medical and non-medical rehabilitation.
2. Types of rehabilitation.
3. The principles of rehabilitation.
4. Stages of physical rehabilitation.
5. Clinical and physiological substantiation of the therapeutic effect of physical exercises.
6. The mechanisms of regulation of physiological functions when exposed to physical means rehabilitation.
7. The main positive effects of exercise.
8. Fixed assets of exercise therapy.
9. Classification of exercise.
10. Methods of dosing physical activity.
11. Periods of exercise therapy and the corresponding modes of motor activity.
12. Indications and contraindications for the use of exercise therapy.
13. The concept of kinesitherapy, especially the method of kinesitherapy.
14. Means of kinesitherapy, classification of physical exercises.
15. Rehabilitation program for compression fracture of the spine.
16. Rehabilitation program for injuries of the upper limbs.
17. Rehabilitation program for injuries of the lower extremities.
18. Rehabilitation program for degenerative-dystrophic diseases the spine.
19. Rehabilitation program for diseases of the cardiovascular system.
20. Rehabilitation program for chronic coronary heart disease, myocardial infarction, hypertensive, hypotonic and vegetative-vascular disease on stationary, sanatorium and outpatient stages.
21. Rehabilitation program for congenital and acquired defects hearts.
22. Rehabilitation program for respiratory diseases: bronchitis, pneumonia, bronchiectatic disease, bronchial asthma.
23. Respiratory gymnastics Strelnikova, Tolkachev, Buteyko, Streltsova.

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24. Rehabilitation programs for obesity, gout, and diabetes
25. Stroke rehabilitation programs
26. Programs for various diseases in the elderly.
27. Rehabilitation programs for gynecological diseases.
28. Standardized assessment of the physical capabilities of an elderly person
29. Classes on the development of equilibrium while standing and walking in the elderly.
30. Prevention of falls.
31. Orthopedic support of the knee joints.
32. Orthopedic support for ankle joints.
33. Kegel exercises for urinary incontinence.
35. Equipment for moving patients.
36. "Successful aging."

10. SELF-STUDY WORK OF STUDENTS

Title of sections and topics	Type of self-study work (study of educational material, problem solving, abstract, report, test, preparation for pass test, examination, etc.)	Volume in hours	Form of control (verification of problem solving, abstract, etc.)
Problem-oriented approach in medical rehabilitation.	Preparation of the report “Problem-oriented approach in medical rehabilitation”	2	control work, tests, situational tasks
Technologies of physical rehabilitation for the most common pathological conditions.	Preparation of the report “Technologies for physical rehabilitation”	2	control work, tests, situational tasks
Technologies of psychological rehabilitation	Preparation of the report “Forms and methods of psychological rehabilitation”	2	control work, tests, situational tasks
The basics of ergotherapy in the rehabilitation process	Preparation of the report “Ergotherapy in rehabilitation”	2	control work, tests, situational tasks
Social Rehabilitation Technologies	Preparation of the report “Forms and methods of social rehabilitation”	2	control work, tests, situational tasks
Modern technologies of kinesiology exposure in the process of rehabilitation	Solving situational problems, testing	1	control work, tests, situational tasks
Modern technical means of rehabilitation	Solving situational problems, testing	1	control work, tests, situational tasks
Assistive technology in rehabilitation	Solving situational problems, testing	1	control work, tests, situational tasks
Modern digital and information technologies in rehabilitation	Solving situational problems, testing	1	control work, tests, situational tasks
Forms and methods of medical	Solving situational problems,	2	control work,

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and non-medical rehabilitation in neurology	testing		tests, situational tasks
A multidisciplinary approach to the rehabilitation of stroke patients	Solving situational problems, testing	1	control work, tests, situational tasks
A multidisciplinary approach to patients with swallowing disorders	Solving situational problems, testing	1	control work, tests, situational tasks
Multidisciplinary approach to patients with impaired motor function of limbs	Solving situational problems, testing	1	control work, tests, situational tasks
Multidisciplinary approach to patients with impaired coordination of movements	Solving situational problems, testing	1	control work, tests, situational tasks
A multidisciplinary approach to patients with impaired consciousness	Solving situational problems, testing	1	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of patients with speech impairment	Solving situational problems, testing	1	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of patients with cognitive impairment	Solving situational problems, testing	1	control work, tests, situational tasks
A problem-oriented approach to the rehabilitation of trauma patients	Preparation of the educational project "Individual rehabilitation program for strokes"	1	control work, tests, situational tasks
Forms and methods of medical and non-medical rehabilitation in traumatology and orthopedics	Preparation of the educational project "Individual rehabilitation program in traumatology and orthopedics"	2	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of patients after hip replacement	The solution of situational problems, testing	1	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of patients after injuries of the spine and pelvic bones	The solution of situational problems, testing	1	control work, tests, situational tasks
A problem-oriented approach to the rehabilitation of patients with a cardiorespiratory profile	Report preparation: "Problems of patients with a cardiorespiratory profile"	1	control work, tests, situational tasks
Forms and methods of medical and non-medical rehabilitation for coronary heart disease and myocardial infarction	Preparation of the educational project "Individual program for the rehabilitation of patients with coronary heart disease"	1	control work, tests, situational tasks
Forms and methods of medical and non-medical rehabilitation for COPD	Preparation of the educational project "Individual program for the rehabilitation of patients with COPD"	1	control work, tests, situational tasks

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Multidisciplinary management of patients with metabolic syndrome	Preparation of the educational project “Individual Program for the Rehabilitation of Patients with Metabolic Syndrome”	1	control work, tests, situational tasks
A multidisciplinary approach to rehabilitation after coronary artery bypass grafting	Preparation of the educational project "Individual Program for the Rehabilitation of Patients with Aorto-Coronary Bypass Surgery"	1	control work, tests, situational tasks
Features of the rehabilitation of gerontological patients	Preparation of the educational project "Individual Program for the Rehabilitation of Patients in Gerontology"	1	control work, tests, situational tasks
A multidisciplinary approach to mental health rehabilitation	Preparation of the educational project “Individual Program for the Rehabilitation of Patients with Mental Illness”	1	control work, tests, situational tasks
A multidisciplinary approach to the rehabilitation of children with developmental disabilities	Preparation of the educational project “Individual rehabilitation program for children”	1	control work, tests, situational tasks, training project

11. EDUCATIONAL, METHODOLOGICAL AND INFORMATION SUPPORT OF DISCIPLINE “The practical use of ICF in rehabilitation for various pathologies”

Практическое применение Международной классификации функционирования в реабилитации при различной патологии

List of recommended literature


a) Main literature:

1. Medical rehabilitation : textbook / edited by A. V. Epifanov, E. E. Achkasov, V. A. Epifanov. - Москва : ГЭОТАР-Медиа, 2022. - 664 с. - ISBN 978-5-9704-6688-9. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970466889.html>

2. Standardized coefficients = Стандартизованные коэффициенты : an educational manual for English-speaking students of the Faculty of Foreign Students / Ж. Б. Набережная, И. Б. Набережная, А. С. Нимгирова, Л. С. Кострыкина. - Астрахань : Астраханский ГМУ, 2017. - 41 с. - ISBN 9785442403497. - Текст : электронный // ЭБС "Букал" : [сайт]. - URL : <https://www.books-up.ru/ru/book/standardized-coefficients-11263018/>

b) Additional literature:

1. Хованская Г. Н. General principles of medical rehabilitation and physiotherapy = Общие основы медицинской реабилитации и физиотерапии : пособие для студентов учреждений высшего образования, обучающихся по специальности 1-79 01 01 «Лечебное

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дело» [на англ. яз.] : manual for the Medical Faculty for International Students (Course of studies in English) / Г. Н. Хованская. - Гродно : ГрГМУ, 2019. - 212 с. - ISBN 9789855950944. - Текст : электронный // ЭБС "Букап" : [сайт]. –

URL : <https://www.books-up.ru/ru/book/general-principles-of-medical-rehabilitation-and-physiotherapy-12068689/>


2. Kruchkova, A. V. Care for Surgical Patients / A. V. Kruchkova, Yu. V. Kondusova, I. A. Poletayeva and others; edited by A. V. Kruchkova. - Москва : ГЭОТАР-Медиа, 2020. - 144 с. - ISBN 978-5-9704-5664-4. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970456644.html>

c) educational- methodical:

1. Grischuk D. V.

Guide for student independent work on the discipline «Practical application of ICF in rehabilitation in various pathologies» for specialty 31.05.01 «General medicine» / D. V. Grischuk, S. V. Yarzutkin ; Ulyanovsk State University. - 2022. - 20 p. - Неопубликованный ресурс. - На англ. яз. - URL: <http://lib.ulsu.ru/MegaPro/Download/MObject/13102>.

AGREED:

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The position of the worker scientific library Full name signature data

f) Professed data base, directory and search systems:

1. Электронно-библиотечные системы:

1.1. Цифровой образовательный ресурс IPRsmart : электронно-библиотечная система : сайт / ООО Компания «Ай Пи Ар Медиа». - Саратов, [2024]. – URL: <http://www.iprbookshop.ru>. – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.

1.2. Образовательная платформа ЮРАЙТ : образовательный ресурс, электронная библиотека : сайт / ООО Электронное издательство «ЮРАЙТ». – Москва, [2024]. - URL: <https://urait.ru> . – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.


1.3. База данных «Электронная библиотека технического ВУЗа (ЭБС «Консультант студента») : электронно-библиотечная система : сайт / ООО «Политехресурс». – Москва, [2024]. – URL: <https://www.studentlibrary.ru/cgi-bin/mb4x>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.4. Консультант врача. Электронная медицинская библиотека : база данных : сайт / ООО «Высшая школа организации и управления здравоохранением-Комплексный медицинский консалтинг». – Москва, [2024]. – URL: <https://www.rosmedlib.ru>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.5. Большая медицинская библиотека : электронно-библиотечная система : сайт / ООО «Букап». – Томск, [2024]. – URL: <https://www.books-up.ru/ru/library/> . – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.6. ЭБС Лань : электронно-библиотечная система : сайт / ООО ЭБС «Лань». – Санкт-Петербург, [2024]. – URL: <https://e.lanbook.com>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.7. ЭБС **Znanium.com** : электронно-библиотечная система : сайт / ООО «Знаниум».

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- Москва, [2024]. - URL: <http://znanium.com> . – Режим доступа : для зарегистрир. пользова- телей. - Текст : электронный.

2. КонсультантПлюс [Электронный ресурс]: справочная правовая система. / ООО «Консультант Плюс» - Электрон. дан. - Москва : КонсультантПлюс, [2024].

3. eLIBRARY.RU: научная электронная библиотека : сайт / ООО «Научная Элек- тронная Библиотека». – Москва, [2024]. – URL: <http://elibrary.ru>. – Режим доступа : для ав- ториз. пользователей. – Текст : электронный

4. Федеральная государственная информационная система «Национальная электронная библиотека» : электронная библиотека : сайт / ФГБУ РГБ. – Москва, [2024]. – URL: <https://нэб.рф>. – Режим доступа : для пользователей научной библиотеки. – Текст : электронный.

5. Российское образование : федеральный портал / учредитель ФГАУ «ФИЦТО». – URL: <http://www.edu.ru>. – Текст : электронный.

6. Электронная библиотечная система УлГУ : модуль «Электронная библиотека» АБИС Мега-ПРО / ООО «Дата Экспресс». – URL: <http://lib.ulsu.ru/MegaPro/Web>. – Режим доступа : для пользователей научной библиотеки. – Текст : электронный.

Инженер ведущий



Щуренко Ю.В.

2024

12. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE:


Audiences for lectures, seminars, for laboratory work and workshops, for ongoing moni- toring and intermediate certification, group and individual consultations. The seminar room is equipped with student furniture for 36 seats.

The classrooms are equipped with specialized furniture, a training board. The lecture halls are equipped with multimedia equipment to provide information to a large audience. The rooms for independent work are equipped with computer equipment with the ability to connect to the Internet and providing access to an electronic educational information environment, an electronic library system. The list of equipment used in the educational process is indicated in accordance with the information about the material and technical support and equipment of the educational process, available on the official website of the Ulyanovsk State University in the section "Infor- mation about the educational organization".

Technical means:

1. Classroom board
2. Educational visual aids, tables and slides in the specialty; videos
3. Workplace for the teacher
4. Personal computer, office equipment, audio, video library.
5. Presentations on lecture topics;
6. Educational videos:
 - Dangerous method;
 - Air Force - the functioning of the brain.
7. Educational technology:

Simulation technologies: role-playing games: "Communication training in the doctor-pa- tient dyad; relaxation techniques: Training in self-regulation methods.

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Non-simulation technologies: multimedia presentations; compilation of a psychological and behavioral portrait.

13. SPECIAL CONDITIONS FOR STUDENTS WITH DISABILITIES

Training students with disabilities is carried out taking into account the peculiarities of psychophysical development, individual capabilities and health of such students. Education of students with disabilities can be organized in conjunction with other students, and separately. If necessary, students from among persons with disabilities (at the request of the student) may be offered one of the following options for the perception of information, taking into account their individual psychophysical characteristics:

- for persons with visual impairment: in printed form in large print; in the form of an electronic document; in the form of an audio file (translation of educational materials into audio format); in printed form in Braille; individual consultations with the involvement of a special translator; individual tasks and consultations.
- for persons with hearing impairment: in printed form; in the form of an electronic document; video materials with subtitles; individual consultations with the assistance of a sign language interpreter; individual tasks and consultations.
- for persons with musculoskeletal disorders: in printed form; in the form of an electronic document; in the form of an audio file; individual tasks and consultations."

If it is necessary to use partially/exclusively distance learning technologies in the educational process, the organization of work of teaching staff with students with disabilities and disabilities is provided in an electronic information and educational environment, taking into account their individual psychophysical characteristics.

Developer  Associate Professor Yarzutkin S.V.