Subject	BASIS OF PHYSICAL THERAPY	
Study Program	Three years professional study for graduated physiotherapist	
Code	SF-212	
Year of study	Second	
Semester	Third and Fourth	
Total number of	185	
classes		
Credits	11	
Type of subject	Obligatory	
Preconditions	Fulfilled requirement to register for second year	
Executed by	Chair (Cathedra) of Physical Medicine and Rehabilitation	
Responsible Teacher	Associate Professor Erieta Nikolikj-Dimitrova, M.D., Ph.D.	
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Key words	Study for physiotherapists, professional subjects, physical therapy	
Goals of study	 To be acquainted with the artifical sources of physical agents To get knowledge for all types of physical agents (modalities), used in the physical therapy. To acquire knowledge for their origin, the biological and physiological action of the physical agents, their dosage, as well as the indications and contraindications, when applied. To be introduced with the way of application of the physical agents and precautions and possible errors during the work. To understand the role of the physical therapy in the process of the rehabilitation of people with injury or disease. 	
Class descriptions (brief content)	 Theoretical instruction (40 lessons): Electrotherapy: basic information Electrotherapy: galvanic current, iontophoresis, Electrotherapy: impulse currents: diadynamic currents, faradic and neo-faradic currents, ultra-stimulating currents, interferential currents, sinusoidal modular currents. Electrical stimulation Functional electrical stimulation (FES) Transcutaneous electrical nerve stimulation (TENS). High frequency currents: short waves and similar. Electrodiagnostics, Classic electrodiagnostics, Biofeedback Therapy with electromagnetic field Therapeutic ultrasound Light therapy: infrared rays, ultraviolet rays, laser. Heat therapy, paraffin baths Ice therapy, 	

	✓ Hydrotherapy	
	 Inhalation therapy 	
	✓ Spinal traction	
	Practical instruction (45 lessons):	
	type of electrotherapy.Training the physiotherapist fo	or the methods of application of each or the methods of application of therapeutic ultrasound, light therapy, otherapy, traction.
	Practice (100 lessons):	
	Practice is mandatory and is carried or guidance of a mentor-teacher and phy department. The student is obliged to of the full-time working hours and kee	vsiotherapist responsible for that engage in all activities in the course
Organization	Theoretical instructions: 40 lessons	
-	Practical instructions: 45 lessons	
	Practical training: 100 classes	
Methods of Learning	Lectures, classes of practical instruct	tion, practical training
Provided results of study	 Knowledge and understanding: The student will acquire knowledge for the different types of physical agents, their physiological and therapeutic action, indications and contraindications. Key skills: The student will know how to use the different methods of application of the different types of physical agents. The student will be able to avoid the dangers and the possible errors while applying the methods of the physical therapy. 	
	The student is obligated to take part in all provided activities, including participation in continuous knowledge examinations in order to get a signature.	
	Ranking the student's activities:	
	Type of activity	Points
	Theoretical instruction*	2.5 - 7.5
	Practical instruction**	9 - 18
	Practical training***	7.5 - 7.5
Specific teaching	Continuous examinations-2	30 - 42
recommendations	Practical examination	10-25
	Total:	60-100

* Durany as at the anatical instruction.
* Presence at theoretical instruction:
51% - 60% - 2,5 points
61% - 70% - 3.5 points
71% - 80% - 4.5 points
81% - 90% - 5.5 points
91% - 100% -7.5 points
** Practical instruction: every practical lesson brings 0,4 point (45
exercises)
presence -0.2 points
activity at practical lesson–0.2 points
*** Success in practical training
Presence:
51% - 60% - 0,5 points
61% - 70% - 1.0 points
71% - 80% - 1.5 points
81% - 90% - 2.0 points
91% - 100% - 2.5 points
9170 - 10070 - 2.5 points
Activity:
Satisfactory: 3
Good: 4
Excellent:5
Excenent.5
Continuous examination (colloquium):
The student regularly attend theoretical and practical lessons in order to
access the continuous examination. Examinations are written (multiple
choice test).
The student is obliged to access the colloquium, otherwise he does not
aquire the right to get a signature at the end of the semester.
The student is obligated to win minimum points (60%), in both
continuous assessments, before he access the final exam.
If the student passed one of the two colloquiums, he would access for
the complete final exam.
If the student fails to pass both colloquiums, he has no right to access
the complete final exam.
Final exam:
The student who has passed both colloquiums is allowed to take the final
examination (practical). It is carried out in two examination periods -
June/July and/or August/September. It consists of 3 tasks (skills) that the
student should do.
The student is allowed to pass the practical examination only if he/she
has completed the practice, got a signature of the subject and if he/she
gets minimum points in both colloquiums.
Complete Final Exam:

	The student is allowed to pass complete final exam if he/she failed to get minimum points (60%) in one of the two colloquiums. The examination is a combination of the colloquium that is not passed and the practical exam. The student is obliged to first pass the colloquium that he/she failed and then pass the practical exam. If the student will not pass that colloquium, he/she has no right to pass the practical examination i.e the examination must not be graded. Completing the complete grade: The mark for the entire examination is formed in accordance with the table of marks, and on the basis of the sum of points collected from all the activities and also including the continuous checks and the practical examination. The colloquiums that were passed as a condition to pass the final examination are valid in the next six running sessions (no matter if the student appeared or not at the examination), after that the student attends the lectures for that subject for the second time. PART-TIME STUDY: Forty percent (40%) of the provided theoretical and practical instructions, as well as practical training (practice) is performed. Practice is organized in agreement with the students. The exam is carried out in EXAM SESSIONS and consists of: - Multiple choice test; - Practical exam (carried out if the test is passed, otherwise same rules as for the full-time students are applied).
	The grade of the complete exam is formed according to the table of grades, and on the basis of the sum of points gained from all the activities.
Teaching materials	Basic: Erieta Nikolikj-Dimitrova. Fundamentals of physical therapy. Laserjet, Skopje, 2009