



Table 2

3.2. Course description

Basic description		
Course coordinator	Assist. Prof. Alen Ružić, MD	
Course title	Cardiopulmonary physiotherapy	
Study programme	Physiotherapy graduated study	
Course status	compulsory	
Year	2.	
ECTS credits and teaching	ECTS student 's workload coefficient	9
	Number of hours (L+S)	30 + 30 +60

1. COURSE DESCRIPTION		
1.1. Course objectives		
To introduce students to the basics approach to physiotherapy of pulmonary and cardiovascular patients. The course has also the intention to enable candidates for the independent work in the field of individual and group physical therapy of cardiac morbidities, pulmonary disorders, and other connected clinical situations.		
1.2. Course enrolment requirements		
There are no course enrolment requirements.		
1.3. Expected course learning outcomes		
<ol style="list-style-type: none"> 1. Overcoming access to patients of seriously endangered health 2. Perfecting the thinking and action in the therapeutic team 3. Knowing the specifics of the most common chronic non-infectious diseases in adults and their specificity in physical therapy, 4. Development of integrative thinking toward the clinical status of each individual patient 5. Individual adjustment of the general state of knowledge to individual patients 6. Longitudinal adjustment of the physical therapy to the time-related changes of individual clinical status 		
1.4. Course content		
<ol style="list-style-type: none"> 1. Expected age-related changes of the human body 2. The basic principles of the leading cardiovascular and pulmonary diseases 3. Specifics of physical therapy in cardiovascular and pulmonary diseases 4. Basic principles of the formation and development of the atherosclerotic disease: progression - prevention - regression? 5. Physical therapy in patients after myocardial infarction 6. Physical therapy in patients after cardiac surgery - general principles and specifics 7. Chronic pulmonary disease and the physical therapy 8. Contraindications for active physical therapy in heart and lung diseases 9. Long-term impact of physical therapy and related procedures on the cardiovascular health 10. Cardiopulmonary physiotherapy - where are we and where are we going? 		
1.5. Teaching methods	<input type="checkbox"/> x lectures <input type="checkbox"/> x seminars and workshops	<input type="checkbox"/> x individual assignment <input type="checkbox"/> x multimedia and network



		<input type="checkbox"/> exercises			<input type="checkbox"/> laboratories		
		<input type="checkbox"/> long distance education			<input type="checkbox"/> mentorship		
		<input type="checkbox"/> fieldwork			<input type="checkbox"/> other		
1.6. Comments							
1.7. Student's obligations							
Regular attendance to lectures and seminars. Preparation of the course content to be discussed during seminars and practicals.							
1.8. Evaluation of student's work							
Course attendance	5%	Activity/Participation	10%	Seminar paper	15%	Experimental work	
Written exam	15%	Oral exam	15%	Essay		Research	
Project		Sustained knowledge check	40%	Report		Practice	
Portfolio							
1.9. Assessment and evaluation of student's work during classes and on final exam							
<p>Evaluation would be performed according the actual Rules on studies of University of Rijeka (approved by the Senat) and the Faculty of medicine (approved by the Faculty council). In this system, the overall students' outcome is made up 70% of their achievement during the course itself and 30% of the success in the final exam.</p> <p>Achievements during the course will be evaluated by: a) sustained knowledge check (partial tests, partial exams and other activities in classes), b) activity during the course, c) seminar paper or presentation, d) course attendance</p>							
1.10. Assigned reading (at the time of the submission of study programme proposal)							
<ol style="list-style-type: none"> Jajić I. ur. Fizikalna medicina i opća rehabilitacija. 2000; Medicinska naklada, Zagreb. European guidelines on cardiovascular disease prevention in clinical practice. Eur J Cardiovasc Prev Rehab. 2007; 14 (Suppl 2): S1-113. Miličić D, Aganović I, Hrabak-Žerjavić V, Jelaković B, Jembrek-Gostović M, Koršić M. i sur, ur. Europske smjernice za prevenciju kardiovaskularnih bolesti u kliničkoj praksi, hrvatsko izdanje. Europsko kardiološko društvo, Hrvatsko kardiološko društvo, Zagreb, 2004. ESC / EAS Guidelines for the management of dyslipidaemias. Eur Heart J. 2011; 32: 1769-818. 							
1.11. Optional / additional reading (at the time of proposing study programme)							
<ol style="list-style-type: none"> Camm AJ, Luscher TF, Serruys PW, ur. The ESC Textbook of Cardiovascular Medicine. 1. izd., European Society of Cardiology, Blackwell Publishing Ltd, Oxford; 2006. Cardiac rehabilitation and secondary prevention of coronary heart disease: an American Heart Association Scientific Statement from the Council on Clinical Cardiology (Subcommittee on Exercise, Cardiac Rehabilitation and prevention) and the Council on Nutrition, Physical Activity and Metabolism (Subcommittee on Physical Activity) in collaboration with the American Association of Cardiovascular and Pulmonary Rehabilitation. Circulation.2005;111:369-376. Reiner Ž, Mihatov Š, Miličić D, Bergovec M, Planinc D, TASPIC-CRO Study Group Investigators. Treatment and secondary prevention of ischemic coronary events in Croatia. (TASPIC-CRO study). Eur J Cardiovasc Prev Rehabil. 2006;13:646-54. EuroHeartSurvey, Cardiovascular diseases in Europe 2006. Kardiovaskularne bolesti u Republici Hrvatskoj, HZJZ, 2004. 							
1.12. Number of assigned reading copies with regard to the number of students currently attending the course							



Title	Number of copies	Number of students
<i>1.13. Quality monitoring methods which ensure acquirement of output knowledge, skills and competences</i>		
<ol style="list-style-type: none">1. Conducting student surveys and evaluation of results. At the end of each course student surveys will be conducted to evaluate the quality of teaching and teachers who participate in the delivery of the course with more than 30%. Evaluation procedures are systematically carried out by Teaching Quality Assurance Committee at our Faculty.2. Analysis of the results achieved at exams.3. The mentor system. Each student group is assigned a mentor who follows the students throughout the course.		