1.	Subject	ORTHOPED	ICS			
2.	Code	OM 512				
3.	Study Program	General medie	cine			
4.	Organizing Institution ( Unit, Institute, Chair, Department)	UKIM-Faculty of Medicine Department of Orthopedics				
5.	Educational degree (first or second cycle)	Integrated cyc	ele			
6.	Study year /semester	Fifth/IX	7.	Number of credits	2	
8.	Responsible teacherProf. Dr. Anastasika Poposka, MD, PhD					
9.	Preconditions:	econditions: Necessary condition for enrolling in IX semester				
10.	Teaching goals of the study program	n (competencie	s):			
	<ul> <li>The student should learn and master the skills concerning rational diagnosis and contemporary treatment embodied into the ethiopathogenesis of the diseases.</li> <li>The student should be capable of clinical assessment and treatment of muscle-skeletal system diseases</li> </ul>					
	<ul> <li>Contemporary clinical assessment should be founded on a rational diagnosis, especially on clinical examination, which can result in other examinations (laboratory, ultrasound, radiographic, computer etc).</li> <li>Contemporary treatment will be done according to the newest achievements in medicine based on evidence.</li> </ul>					

11.	Contents of the study program:									
	Theoretical course::									
	<ul> <li>Basics in orthopedic surgery</li> <li>Congenital disorders of the bone and joint system</li> <li>Inflammatory diseases of the bone and joint system</li> <li>Degenerative diseases of the bones and joints</li> <li>Normal and disturbed healing of the bone</li> <li>Tumors of the muscle-skeletal system</li> <li>Congenital and acquired diseases of the locomotor system (neck, spine, pelvis, thorax, shoulder, elbow, wrist, hand, knee, foot)</li> <li>Canalicular syndromes of the upper and lower extremities</li> <li>Orthopedic devices</li> </ul>									
	Practical course:									
12. 13. 14.	Practical course:         • Practical applications and clinical skills in orthopedics         • Measuring of the size and length of the upper and lower extremities         • Clinical signs and tests for diagnosis knee injuries         • Clinical signs and tests for diagnosis osteoarthritis of the joints         • Practical course on phantoms         • Measurements and tests for diagnosis of spine deformities         • Podometric measurements, diagnosis and treatment of congenital foot deformities in children         • Clinical approach for diagnosis of soft tissue and bone tumors         • Introduction into orthopedic surgical techniques         Methods of studying: Interactive lecturing, practical education/seminars         Total no. of hours:       90 hours									
				education/semir hours home stuc						
15.	Type of educational activity	15.1	Lectur	res-theoretical	25 hours					
		15.2		cals (laboratory,	15 hours					
	clinic semir work			al), ars, team	5 hours					
16.	Other types of	16.1	Projec	et assignments	0 hours					

	activities		16.2	Individual tasks	0 hours
			16.3	Home studying	45 hours
17.	17. Assessment of knowledge points		ge:		100
	17.1TestsFinal exam				minmax.
			Conti	nuous tests	total points
					26-45
			Subje	ct: Orthopedics	
					minmax. Practical
			exam		26-45 points
			Oral e	xam	17-29 points

17.2	Seminar work/project (presentation: written and oral)	works points	minmax. Seminar
17.3	Active participation	Theoretical course	minmax. points 5-10
		Practical course	points 12-16
		* presence during theoretic education	on:
		51% - 60% - 5 points;	
		61% - 70% - 6 points;	
		71% - 80% - 7 points;	
		81% - 90% - 8 points; 91% -100% -10 points.	
		** practical education (6 exercises in	duration of 4 hours):
		Presence: 2 points	
		Activity during exercises: 2 points.	
		*** continued examination – 1 writt	en test
		Theoretic elements in orthopedics – (2	6 – 45 points)

		**** final examination	<b>n:</b> practical + oral – (17 – 29 points)			
		Practical part (examina	tion of a patient, differential			
		diagnosis and therapy, + oral part of the exam knowledge is verified.	according to the catalogue of skills) ination where the integrative 19 points, $7 = 20-21$ points, $8 = 2224$			
18.	Knowledge assessment	up to 59 points	5 (five) F			
	criteria: (points/grade)	60 to 68 points	6 (six) E			
		69 to 76 points	7 (seven) D			
		77 to 84 points	8 (eight) C			
		85 to 92 points	9 (nine) B			
		93 to 100 points	10 (ten) A			
19.	Criteria for obtaining a signature and taking the final exam	<ul> <li>Conditional criteria for assessment of knowledge: In order to get a signature, the student should obtain minimum points in both the theoretical and the practical courses and seminars and to win minimum of total points. In order to take the final exam, the student should pass the continuous tests or win minimum 60% of total points of the continuous tests; than the student may aproach to the final exam.</li> <li>The grade in the comprehensive exam is given according to the grading table, and on the basis of the sum of points obtained in all of the activities, continuous tests and final</li> </ul>				

20.	Langu	uage of the course		Macedonian				
21.		lethod for evaluation of e quality of education		•		ion of the subject, tea the educational activ		
22.	Literature							
		Manda	atory textboo		Title	Publisher	Year	
	22.1	1	A. Greenspa	an	Orthopedic Imaging -A Practical Approach	Government of RM	2012	

	2	B.J.Zitelli, H.V.	Atlas of Pediatric	Government of	2011
		Davis	Physical	RM	
			Diagnosis		
			(Chapter – Orthopedics		
			781-867)		
	3	R.E.Rakel	Textbook of Family Medicine: Orthopedics. 857915 p.	Government of RM	2011
	Additi	onal literature			1
		Author	Title	Publisher	Year
22.2	1	Group of authors	Authorized lectures of the Department		2009
	2	I. Rushkovski	Orthopedics	Medicinska	1976

3	P.B.Pynsent,	Outcome		
	J.C.T.Fairbank,	Measures in		
	E.J.Carr	Orthopedics and		
		Orthopedic		
		Trauma		
4	Zafirovski Gj,	Children's	Kultura Skopje	2003
	Grkova V, Kamnar	Orthopedics		
	J, Nojkov J, Poposka			
	A, Bozinovski Z,			
	Samardziski M et al			
5	Z. Temelkovski	Shoulder Joint		
6	A. Poposka	Ultrasound	Kosta Abrashevic	1995
		Diagnostics of the Child's Hip Congenital Dysplasia	Ohrid	
	4	J.C.T.Fairbank, E.J.Carr 4 Zafirovski Gj, Grkova V, Kamnar J, Nojkov J, Poposka A, Bozinovski Z, Samardziski M et al 5 Z. Temelkovski	J.C.T.Fairbank,Measures inE.J.CarrOrthopedics and0rthopedicTrauma4Zafirovski Gj,Grkova V, KamnarChildren'sJ, Nojkov J, PoposkaOrthopedicsA, Bozinovski Z,Samardziski M et al5Z. TemelkovskiShoulder Joint6A. PoposkaUltrasoundDiagnostics of the Child's Hip Congenital	J.C.T.Fairbank, E.J.CarrMeasures in Orthopedics and Orthopedic Trauma4Zafirovski Gj, Grkova V, Kamnar J, Nojkov J, Poposka A, Bozinovski Z, Samardziski M et alChildren's OrthopedicsKultura Skopje5Z. TemelkovskiShoulder Joint66A. PoposkaUltrasound Diagnostics of the Child's Hip CongenitalKosta Abrashevic Ohrid