1.	Subject		PA	THOPHYSIOLOG	Y 2	
2.	Code		OM	M 311		
3.	Study Program		Ger	eneral Medicine		
4.	Institution (Unit, Institute, Chair, Depa	artment)		Ss Cyril and Methodius University, Medical Faculty, Department of Pathophysiology		
5.	Degree of education (first or second cycle)		Inte	Integrated 6-year study		
6.	Study year/semester		Thi Fift	rd (III) / 7.Num h (V) credits		
8.	Responsible teacher		Pro	f. Daniela Pop Gjorc	heva, PhD, MD	
9.	Preconditions			Exam of Physiology 1, Signature of Physiology 2, Signature of Pathophysiology 1		
10.	Teaching goals:  To get introduced with mechanisms of initiation, course and outcome of heart and vascular, lung, kidney, digestive, liver and bile and endocrine disturbances					
11.	Brief content:					
	<ul> <li>disturbances of cardiovascular system</li> <li>disturbances of respiratory system</li> <li>disturbances of renal system</li> <li>disturbances of digestive system</li> <li>disturbances of hepatobiliar system</li> <li>disturbances of endocrine system Practical lessons:</li> <li>experimental practices on experimental animals, demonstrations on students, presentation of in vitro and in vivo methods</li> </ul>					
12. Methods of studying:						
	Classic - Ex cathedra teachi independent study by using	•		e teaching during lectures and practical trainings, ater assisted learning		
13.	Total available time:			135 classes		
14.	Organization of the course		60 classes - theoretical course, practical course 75 classes - home individual learning			
15.	Forms of teaching activities	15.1. 15.2.	Theoretical Practical Seminars		30 classes 30 classes	

16.	Other forms of activities		16.1.	Practice	/				
			16.2.	Individual tasks	/				
			16.3.	Individual (home) learning	75 classes				
17.	Method of assessment								
	17.1	Tests	min – max						
			Continual assessment – 2 tests (written form)						
			disturbances of cardiovascular, respiratory and ren systems						
					18 - 30 points				
			2.	<ol> <li>disturbances of digestive, hepatobiliar , haematopoetic and endocrine systems 18 - 30 points</li> </ol>					
					18 - 30 points				
		tion							
			<ul> <li>3. Final test: analysis of experimental models or tests for disorders detection</li> <li>6 - 10 points</li> <li>4. Oral exam: theoretical discution for the application of experimental models or tests</li> <li>6 - 10 points</li> </ul>						
			Co	mplete exam - combination of the m) plus final test and final oral e					
				ll exam - combination of the to t and final oral exaam	wo failled exams plus final				
	17.2	Seminar paper/project (oral/written presentation)	/-/		min – max				

	17.3 Active participation	Students are obliged to follow actively all recommended activities, including participation in the continuous testing of knowlidge in order to get signature  Pointing of student's activities:			
		Theoretical course (% of presence)			
	<ul> <li>min.30% 1 point</li> <li>31-70% 2 points</li> <li>71-100% 3-5 points</li> <li>Practical 10 - 15 points</li> </ul>				
		The grade in the final exam is given according to the grading tble, and on basis of the sum of points obtained in all of the activities			
18.	Grading criteria	up to 59 points 5 (five) F			
	(points / grade)	from 60 to 68 points 6 (six) E			
		from 69 to 76 points 7 (seven) D			
		from 77 to 84 points 8 (eight) C			
		from 85 to 92 points 9 (nine) B			
		from 93 to 100 points 10 (ten) A			
19. Requirement for signature and taking the final exam		activities.			
20	Y	assessments, he/she will be obligated to pass them before the final exam.			
20.	Language of instruction	Macedonian			
21.	Method of monitoring the quality of teaching process				
22.	Textbooks				
	22.1. Mandatory				

Vaskova O, Miceva     Ristevska S, Pop Gjorceva	Special pathological physiology	RC Copy, Medical	2012
D, Miladinova D, Loparska S, Majstorov V:  Vaskova O, Miceva Ristevska S, Pop Gjorceva D, Miladinova D, Loparska S:	Practical course for general and special pathological physiology	faculty, Skopje Boro Grafika, Skopje	2013
Additional  1. Gamulin S et all:	Pathophysiology	Jumena Zagreb	2014
2. Tadzer I et all:.	General pathological physiology	Medicinska knjiga, Beograd	1984
3. McPhee SJ, Ganong WF:	Pathophysiology of disease. An introduction to clinical medicine	Langee medical Books/McGr aw-Hill, New York	2003
	D, Miladinova D, Loparska S, Majstorov V:  Vaskova O, Miceva Ristevska S, Pop Gjorceva D, Miladinova D, Loparska S:  Additional  1. Gamulin S et all:  2. Tadzer I et all:.	Ristevska S, Pop Gjorceva  D, Miladinova D, Loparska S, Majstorov V:  Vaskova O, Miceva Ristevska S, Pop Gjorceva D, Miladinova D, Loparska S:  Additional  1. Gamulin S et all:  Pathophysiology  Additional  General pathological physiology  Ceneral pathological physiology  Pathophysiology  Additional  Ristevska S, Pop Gjorceva pathological physiology  S:  Additional  Pathophysiology  Pathophysiology of disease. An introduction to	Ristevska S, Pop Gjorceva  D, Miladinova D, Loparska S, Majstorov V:  Vaskova O, Miceva Ristevska S, Pop Gjorceva D, Miladinova D, Loparska S:  Additional  1. Gamulin S et all:  Pathophysiology  Practical course for general and special pathological physiology  Skopje  Additional  Pathophysiology  Jumena Zagreb  Ceneral pathological physiology  Tadzer I et all:  General pathological physiology  Medicinska knjiga, Beograd  Medicinska knjiga, Beograd  McPhee SJ, Ganong WF:  Pathophysiology of disease. An introduction to clinical medicine  Books/McGr aw-Hill, New