1.	Subject	PATHOPHYSIOL	OGY				
2.	Code	DA - 121					
3.	Study program:	Three-year professional studies for graduate obstetricians					
4.	Conducted by Department of Pathological Physiology						
_		UKIM – Medical faculty, Skopje					
5.	Degree of	First cycle					
	education (first or second cycle)						
6.	Academic	First/II 7. Credi	ts	2			
	year/semester						
8.	Professor	Responsible professor: prof. Daniela Pop Gjorcheva, chair of the department The classes are held by all the members of the department					
9.	Prerequisite	Signature in Anatomy with Embryology, Biochemistry and Physiology					
10.	Goals	Introduction to the pathophysiological mechanisms that are behind the basic pathological processes and condition in human pathology, introduction to the mechanisms behind the basic and most common diseases of the organs and systems, introduction to the functional disorders and the clinical and laboratoric manifestations that they show. Expected results: Gaining knowledge and skills to understand, explain and discuss the pathophysiological mechanisms of the pathological processes, conditions and diseases, the functional disorders during the most common diseases in human pathology and their clinical/laboratoric evaluation.					
11.	Content summary:						
	Theoretical lessons: Shock. Hyperthermia. Hypothermia. Fever. Hypoxia. Inflamation. Most common disorders of the energy metabolism, nutrient metabolism, fluid-electrolyte balance and acid-base balance. Hypersensitive reactions, autoimmune disorders, immunodeficiencies, peripheral circulation disorders. Pathophysiology of the most common disorders of the hematopoiesis, hemostasis, cardiovascular system, gastrointestinal system, hepatobiliary system, nephron-urinary system and endocrine system. Practical lessons: Disorders of the renal clearance function Icterus, pancreatic exocrine insufficiency Restrictive and obstructive disorders of the respiratory tract Thyroid function disorders Parathyroid function disorders ECG diagnostic of arrhythmia and coronary artery disease						
12.	Teaching methods: Theoretical classes, practical lessons, learning at home						
13.	Total classes: 45						
14.	Organization		Prepara Prepara Total: 4	Theoretical lessons: 30 Preparation of theoretical lessons: 30 Preparation of practical lessons: 15 Total: 45 classes Learning at home: 45			
15.	Types of teaching a	ctivities	15.1	Lessons: theoretical classes	30		
			15.2	Practical lessons	15		
16.	Other types of activ	vities	16.1	Practice	/		

			16.2	Self-supporting practice	Incorporated into the practical lessons		
			16.3	Learning at home	45		
17.	Knowledge asse	sment	Points				
	17.1	Attending and participating in the theoretical lesson	Minmax. 3*-10 *attending at least 10 of the 30 theoretical classes				
	17.2	Attending and participating in the practical lessons	Minmax. 12-15 The student can miss 3 of the 15 practical lessons				
	17.3	Mid-term exams					
	17.4	Final exam: Pathophysiology test (includes material from both the theoretical and practical lessons		Min. – N	1ax. 45 - 75		
18.	Grading	Up to 59 points	5 (five)	F			
	criterion	From 60 to 68 points	6 (six)	E			
	(points/grades)	From 69 to 76 points	7 (seve	n) D			
		From 77 to 84 points	8 (eight) C 9 (nine) B 10 (ten) A				
		From 85 to 92 points					
		From 93 to 100 points					
		IRREGULAR STUDENTS					
		40% of the theoretical lessons and 40% of the practical lessons are carried out					
		The exam is during the exam week and it is a multiple choice test.					
19.	Requirements for obtaining a signature and attending the final examination	Listed at field 17. Minimum points from the theoretical lessons and attending 12 of the 15 practical lessons					
20.	Language	Macedonian					
21.	Method of evaluating the quality of the lessons	Anonymous student evaluation of the subject, the professors and the collaborators who hold the lessons.					
22.	Literature						
	22.1	Mandatory literature					
		1.	Author Depart	ized lectures from the ment	e professors of the		
		2.	Miladin special	nova, S. Loparska: Pi	evska, D. Pop Gjorcheva, D. racticum of basic and ysiology for medical students,		
	22.2	Additional literature					
		1.	Miladii	nova, S. Loparska, V ogical physiology for	evska, D. Pop Gjorcheva, D. . Majstorov: Basic medical students, Boro		

	2.	O. Vaskova, S. Miceva Ristevska, D. Pop Gjorcheva, D. Miladinova, S. Loparska: Specialized pathological physiology for medical students, Boro Grafika, 2013
	3.	MacFi, Genong: Disease pathophysiology – introduction
		to clinical medicine, Tabernakul, 2010