Add.	. 3		Course progran	n for	the fi	rst, second an	d thi	rd degre	e of studies	6			
1.	Course title				Design and calculation of a composite structures								
2.	Code				127								
3.	Study group(s)				MJSE								
4.	The organizer of the study program					Faculty of Mechanical Engineering - Skopje,							
	(unit, institute, department)				Ss. Cyril and Methodius University in Skopje								
5.	Level (first, second, third degree)				First								
6.	Academic year / semester				summ		7.	credits	of ECTS	6			
8.	Professor					Prof. Zoran Bogatinoski, Ph.D							
9.	Preconditions for enrolling the course					none							
10.	calculation connectio	Purpose of the course program (competences): Introduction to methods and valid standards for calculation and design of composite structures, by designing the main bearing elements and connections.											
11.	Contents of the course program: Short review of multi-storey bearing composite structures application, characteristics and solutions. Multi-storey bearing composite structures types and classification. Load determination, selecting of adequate structural material according to MKS and EC1 standards. Design of basic bearing steel elements (roofing sheet metal, beams, columns, bracing and their joints) stress, stability and deformation control. Trends in the area of composite beam to column connections design and calculation. Making and analyzing drawings of specific multi-storey bearing composite structure.												
12.	Study methods: Interactive lectures, auditory and/or laboratory practice, selfrunning and/or team work on project assignments, selfrunning assignments												
13.	Total avai			<u> </u>	6 ECTS x 30 hours = 180 hours								
14.			sessment			30 + 30 + 60 +		- 30 = 18					
15.	Education	nal activ	ity module	15.1		eaching lecture				30 hoi			
							30 hoi	urs					
16.	Other acti				vork Project assignments			60 hours		urs			
				16.2		elfrunning assig		nto	30 hours				
							June	1115					
		16.			3. Home studying			30 hours		urs			
17.	Evaluatio		ds										
	17.1. Tests								80 points		nts		
	17.2. Projects							20 points		nts			
	17.3. Activity and participation								0 points				
18.	Evaluation criteria (points and marks)					Under 50			5 (five) (F)				
						51 - 60 points			6 (six) (E)				
						61 - 70	point			seven) (D)			
						71 - 80				(eight) (C)			
					· · · · · · · · · · · · · · · · · · ·			nine)					
10	Cignoturo	and fin		nto	91 - 100 points 10 (ten) (A					<u>(A)</u>			
19.													
20.	Language used for performing the teaching					Macedonian language							
21.	Method us quality	sed for	following the teachi	ing	Questionnaire and other type of continuum evaluation						ion		
22.	References												
	Main references												
	22.1. No. Author				Title				Publishe	Year			
	<u> </u>	1.	3.Богатиноски, Б.Трајаноска			Дизајн и пресметка на повеќекатни системи			МФС		2010		

			(script)		2000					
	2.	3.Богатиноски	Нумеричко моделирање и експериментална анализа на композитни челични рамки под дејство на циклични квазистатички оптоварувања (doctoral thesis)	Универзитет ,,Св. Кирил и Методиј" во Скопје, Машински факултет - Скопје						
	3.									
	Additional references									
22.2.	No. Author		Title	Publisher	Year					
	1.	Р.Македонија	Норми и стандарди							