

No. 1

Course syllabus for First cycle studies					
1.	Course title	Electrical engineering			
2.	Code	MDE1M5			
3.	Study Program	Metallurgical digital engineering			
4.	Study program organizer (unit, institute, department, division)	Faculty of Technology and Metallurgy, Ss “Cyril and Methodius” University in Skopje			
5.	Degree (first, second, third cycle)	first			
6.	Academic year / semester	I/1	7.	Number of ECTS	6
8.	Instructors	Prof. d-r Snezana Cundeva, prof. d-r Dimitar Dimitrov			
9.	Prerequisites for course enrollment	none			
10.	Objectives of the course syllabus (competences): Acquisition of basic knowledge in electrical engineering. Application of fundamental principles of electrical engineering in solving specific problems in engineering. Selection and use of electrical engineering devices in engineering practice. Application and basic functioning of electric measuring equipment." Acquired skills (competences): Solving specific problems in engineering. Selection and use of electrical engineering devices in engineering practice. Application and basic functioning of electric measuring equipment.				
11.	Content of the course: Electrostatic field. Steady currents. Kirchhoff's laws. Magnetic field. Sinusoidal currents. Single-phase sinusoidal circuits. Power in sinusoidal circuits. Three-phase circuits. Electrical measurements. Electrical transformers. Direct current machines. Asynchronous machines.				
12.	Study methods: Interactive lectures, exercises (theoretical and/or laboratory)				
13.	Total available time	180			
14.	Allocation of available time	3+2+0			
15.	Teaching activities	15.1.	theory	3	
		15.2.	exercises	2	

16.	Other types of activities	16.1.			
		16.2.			
		16.3.			
17.	Grading system				
	17.1.	Tests			90
	17.2.	Homework, Seminar work			10
	17.3.	Final exam			100
18.	Grading criteria (points/grade)	Up to 61 points			5 (five) (F)
		From 61 to 69 points			6 (six) (E)
		From 70 to 79 points			7 (seven) (D)
		from 80 to 89 points			8 (eight) (S)
		From 90 to 95 points			9 (nine) (B)
		from 95 to 100 points			10 (ten) (A)
19.	Prerequisites for taking the final exam	Participations at classes			
20.	Language in which lectures are conducted	English			
21.	Method for monitoring the quality of lectures	Self evaluation			
22.	LITERATURE				
	22.1.	Compulsory literature			
		No.	Author	Title	Publisher Year
		1.	Д. Димитров, С. Чундева, М. Чундева Блајер	Предавања по предметот електротехника	УКИМ-ФЕИТ 2019
		2.			
		3.			
	22.2.	Additional literature			
		No.	Author	Title	Publisher Year
		1.			
		2.			
		3.			