1.	Course title	**Computer Components**		
2.	Course code			
3.	Study program	ICE, CSE, NT, AET, CE		
4.	Unit offering the course	**FCSE**		
5.	Undergraduate/postgraduate/PhD	**Undergraduate**		
6.	Year/semester 1 / summer / elective	7. ECTS: **6**		
8.	Teacher(s)	Prof. Kosta Mitreski, Assoc. Prof. Dimitar Trajanov, Asst. Prof. Sonja Filiposka, Assist. Prof. Igor Mishkovski		
9.	Course prerequisites	None		
10.	Goals (competences): Познавање на структурата на компјутерските системи, хардверските компоненти, поврзувањето и начинот на работа, карактеристиките и стандардите што се употребуваат Familiarizing with the structure of the computer systems, their hardware components, and connections between the components, organization and functions. Hardware components characteristic and used standards.			
11.	Course content: Introduction to the computer systems structure. Computer systems components. Processor and mother boards families. Chipsets and buses. Memory, I/O ports, housing. Internal I/O ports: serial ports, parallel ports, adapters. Mass data storage mediums. Computer peripherials: display devices, keyboards, monitors, printers, scanners, digital cameras, modems, etc. Basics of using software and software tools, popular hardware monitoring software tools. Networking devices. Managed and unmanaged devices. Connecting different devices. Installing and administration of an operating system, attaching external devices and driver installations.			
12.	Teaching methods: Lectures supported by slide presentations, interactive lectures, trainings (using lab equipment and software packages), team work, case studies, invited guests and lectures, individual practical assignments presentations, seminar paper, e-learning (forums, consultations).			
13.	Total available time		Total available time	
14.	Distribution of the available time		30+45+30+30+45 = 180 h	
15.	Teaching activities	15.1.	Lectures	30 hours
		15.2.	Training (labs, problem solving), seminar and team work	65 hours
16.	Other activities	16.1.	Project work	30 hours
		16.2.	Self study	20 hours
		16.3.	Home work	35 hours
17.	Grading			
	17.1.	Mid-term exams (2)		60 points

	17.2.	Project		30 points
	17.3.	Active participation		10 points
18.	Grading criteria		up to 50 points	5 (five) (F)
			from 51 to 60 points	6 (six) (E)
			from 61 to 70 points	7 (seven) (D)
			from 71 to 80 points	8 (eight) (C)
			from 81 to 90 points	9 (nine) (B)
			from 91 to 100 points	10 (ten) (A)
19.	Final exam prerequisites		Successful completion of activities 15.1 and 15.2	
20.	Course language		Macedonian and English	
21.	Quality assurance methods		Internal evaluation mechanisms supported by student polls	

22. Literature

22.1. Compulsory

No.	Authors	Title	Publisher	Year
1.	A. Agarwal and J. H. Lang	Foundations of Analog and Digital Electronic Circuits	Morgan Kaufmann	2005
2.	R. Jaeger, T. Blalock	Microelectronic Circuit Design	McGraw-Hill	2010
3.				

22.2. Additional

No.	Authors	Title	Publisher	Year
1.	W. Kleitz	Digital Electronics: A Practical Approach	Prentice Hall	2004
2.	C. Alexander, M. Sadiku	Fundamentals of Electric Circuits	McGraw-Hill	2008
3.				