Basic data of the subject		
Academic unit:	Faculty of Engineering and Informatics	
	Applied Informatics	
Title of the subject:	Computer Architecture	
Level:	Bachelor	
Course Status:	Obligatory	
Year of studies:	I	
Number of hours per week:	3	
Value of Credits - ECTS:	5	
Time / location:		
Course lecturer:	Prof.Ass.Dr.Fakije Zejnullahu	
Contact details:	Fakije.zejnullahu@ushaf.net	
Course Description:	The subject of computer architecture provides knowledge about physical, logical and programming level of computer architecture. The students are familiarized with microprocessors of the computers, sub-systems of memory and input-output, the creation technicalities of controllers and drivers for exterior devices. The students are taught how to solve the computer architecture tasks by applying various methods of analysis, programming and testing (lab works, modelling, prototyping, etc.).	
Objectives of the course:	The purpose of the study subject is to familiarize the students with physical, logical and programming level of computer architecture, microprocessors of the computers, sub-systems of memory and input-output, the creation technicalities of controllers and drivers for exterior devices and to teach the students how to apply analysis of solutions, programming and testing methods of computer architecture.	
Expected learning outcomes:	 Upon successful completion of this course, student will be able to: Know and to use modern computer architecture elements and systems development and maintenance tools (programs). Know how to explain the varying complexity of the hardware function, principles of operation and features. Acquired skills to specify, design of computer architecture components according to customer requirements, apply the latest standards. Acquired skills to create and install the microprocessor software. Self-study visual material, examine samples. 	
Contribution to the student lead (which must correspond with learning outcomes)		
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Activity Hour Day/Week In total		

6 45				
45				
45				
14				
15				
125				
Teaching methodology: The course takes 15 weeks with 2 hours of lectures and 2 hours				
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weekly individual and group exercises. Exercises will be held in the form of individual and group work				
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Test 1, Test 2, Attendance and Activity. Final exam: 100%				
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10th ed.,				
Additional Literature: 2. Provided by Tutor. Designed learning plan				

Week twelve:	The embedded microprocessor systems.
Week thirteen:	Microcontroller programming.
Week fourteen:	Open electronics device's architecture.
Week fifteen:	Test 2
A codomic policies and rules of conduct	

Academic policies and rules of conduct

Regular attendance of lectures and exercises is necessary, as well as active participation with discussion and solution of tasks. Not impeding the progress required for learning using mobile phones turned off or in silent mode.