Basic data of the subject				
Academic unit:	Faculty of	Engineering	and Informatics	
	Applied In	formatics		
Title of the subject:	Programm	ing		
Level:	Bachelor			
Course Status:	Obligatory	7		
Year of studies:	Ι			
Number of hours per week:	3			
Value of Credits - ECTS:	5			
Time / location:				
Course lecturer:	Prof. Ass. 1	Dr. Dhuratë	Hyseni	
Contact details:	Dhurate.hy	seni@ushaf.r	iet	
Course Description:	This course programmin programmin course enal programmin pseudo-code	e will intro g and algor g techniques bles student g and using s to solve y	oduce students to ithms. It enables to new software p s to successfully arious problems a	the basics of students to apply projects. Also, this train and apply
	programmin	a	arious problems u	ia switch them to
Objectives of the course:	The aim of the course is to equip students with modern knowledge in "thinking and programming", a prerequisite for the basics of programming. In addition, students in this course will learn to program with strings and matrices in the c # programming language. Familiarizing students with algorithms and their presentation forms. Students will gain knowledge of the concept of computer programming, utilizing the C # programming language as the main development tool, using C # algorithms and programming language. Requirements for completing the goal of this course are: Programming skills Active student during lectures and exercises.			
Expected learning outcomes:	 After completing this course (subject) the student will be able to: Analyze and solve the problem Use c # programming language to solve the problem How to read and "debug" the program in c # C # programming language syntax Develop algorithms and programs in c # programming language for other course requirements during study and beyond. 			
Contribution to the student load (which must converge a day it has a set				
Contribution to the stude	I must corre	Spond with learnin	ig outcomes)	
		nour	Day/ Week	111 total
Lectures with numerical exercises		3	15	45

Internship					
Contacts with teacher / consultations					
Field exercises					
Midterm, seminars and projects.		3	2	6	
Homework					
Self-learning time student (at the library or		3	15	45	
at home)					
Final preparation for the exam		7	2	14	
Time spent on evaluation (tests, quiz and					
final exam)			~	1.5	
Projects and presentations.		3	5	15	
Total				125	
To a shine and the shale and	T t				
leaching methodology:	Lectures an	la exercises	complined with	case stuales ana	
Assessment methods:	Final aram:	$\frac{3Cussions}{70\%}$ I ab w	nk. 30%		
Assessment methods.	Гіпаї ехат.	7078, Lab we	<i>MR. 3070</i>		
The ratio of theory and	70% theory and exercises with 20% lab work				
practice:					
Literature					
Basic Literature:	1. Fundamentals of Computer Programming with C#: The				
	Bulg	arian C# Boo	k, Nakov Svetlin, ar	ıd Veselin Kolev	
	2013.				
	2. Dika A.: Bazat e programimit në C++; Prishtinë; 2005;				
Additional Literatures	ISBN: 9951-00-039-8				
Auditional Literature:	5. Iroeisen, A., & Japikse, P. (2017). Pro C# 7: With. NET				
	<i>una.</i> NEI COIE. Apress. <i>A</i> Online Book: https://introprogramming.info/english				
	intro	-csharp- bool	k/	ig.ingo/english	
Designed learning plan			•		
Week:	Lectures an	d exercises t	o be held		
Week one:	Introduction	to C # Progr	amming Language:		
	How to write	e, compile, an	d execute code in C	C #	
Week two:	Program str	ucture:			
	Variables an	d Constants,	Data types		
Week three:	Basic programming:				
	Writing a s	imple progra	m. Reading the e	ntries by Console.	
	Identifiers,				
	Variables and Constants.				
Week four:	Basic programming:				
Week five	Data types a	na meir conv	ersion.		
Basic programming: Basic mathematical operators associative		proversions and			
	comparison	operators A	raiors, associative perators	επριεзδιοπό απά	
Week six:	Conditional Statements:				
	The role of a	conditional st	atements in progra	mming. Algorithms	

	of conditional statements. Boolean Type, Conditions: if, if-else,		
	multi-way if- else and switch. Generating random numbers.		
	Logical operators, switch condition.		
Week seven:	Loop:		
	Loop: while, do-while, for. Algorithms and loop programming.		
	Reduce numerical errors.		
Week eight:	First evaluation		
Week nine:	Methods (functions):		
	Method Definition.		
	The main method (main). Ordinary methods.		
	Calling method.		
Week ten:	Types of methods (functions):		
	Local and global variables. Parameters of methods.		
	<i>Types of methods based on return values. Overloaded methods.</i>		
	Implementation of math class methods. Factoring and solving.		
Week eleven:	Vectors:		
	Determination of vectors. Arithmetic operations. Return string		
	from method.		
	Individual student practical work on the computer writing the		
	program in the c # programming language for different		
	calculations of vector arithmetic operations. Solving some		
	examples.		
Week twelve:	Vectors:		
	Searching for arrays. Enumeration of designated members.		
	Finding Designated Members. Sorting of strings. Individual		
	student work. Individual student practical work on the		
	computer by writing the program in the c # programming		
	language for different vector computations. Solving some		
	examples.		
Week thirteen:	Matrices:		
	Elementary matrices. Determining matrices. Arithmetic		
	operations. Individual student practical work on the computer		
	by writing the program in the c # programming language for		
	different calculations of arithmetic operations with matrices.		
	Solving some examples.		
Week fourteen:	Study visits to a company		
Week fifteen:	Second evaluation		
Academic policies and rules of conduct			
Regular attendance of lectures and exercises is necessary, as well as active participation with			

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