Basic data of the subject	Basic data of the subject						
Academic unit:	Faculty of E	Ingineering a	and Informatics				
	Applied Informatics						
Title of the subject:	Object Oriented Programming						
Level:	Bachelor						
Course Status:	Obligatory						
Year of studies:	Ι						
Number of hours per week:	3						
Value of Credits - ECTS:	5						
Time / location:							
Course lecturer:	Prof. Ass. D	r. Dhuratë H	Iyseni				
Contact details:	Dhurate.hyseni@ushaf.net						
Course Description:	This course will introduce and enable students to apply						
	object-oriented programming techniques to software. This						
	course also enables students to successfully learn and apply						
	object programming concepts and techniques.						
Objectives of the course:	The purpose of the course is to equip students with modern						
	knowledge in "thinking and programming object-oriented"						
	and in complex software systems. In addition, students in						
	this course will learn to program objects with C#						
	programming language.						
	Requirements to fulfill the purpose of this course are:						
	Programming skills and active student during lectures and						
	exercises.						
Expected learning outcomes:	After successful completion of this course, the student will be						
	able to:						
	• Understand the key concepts of object-oriented						
	<i>programming.</i><i>Be able to write class code and use objects.</i>						
	 <i>Be able to write class code and use objects.</i> <i>To implement inheritance and polymorphism in code.</i> 						
	 Be able to handle mistakes. 						
	 Identify the complexity of programming problem 						
	solving methodologies.						
		8					
Contribution to the stude	nt load (whic	h must corre	spond with learning	ng outcomes)			
Activity		Hour	Day/Week	In total			
Lectures with numerical exercis	es	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	1	7	2	14			
Time spent on evaluation (tes							
final exam)							
Projects and presentations.		3	5	15			
Total				125			
Teaching methodology:		<i>Lectures and exercises combined with case studies and classroom discussions</i>					
Assessment methods:		<i>Test 1, Test 2, Attendance and Activity.</i> <i>Final exam: 100%</i>					
The ratio of theory and practice:	70% theory	70% theory with exercises and 30% laboratory work.					
Literature							
Basic Literature:		1. Clark, D., & Sanders, J., Beginning C# object- oriented programming, 2011					
Additional Literature:	Prog 2. Rob NST	 Jack Purdum, Beginning Object-Oriented Programming With C#, 2013 Robert Harle, "Object Oriented Programming", IA NST CS and CST Lent 2009/10 Materiali i propozuar për lexim dhe ushtrime nga 					
	Profesori i lëndës.						
Designed learning plan		• • •					
Week:		d exercises t					
Week one:		Introduction to Object Oriented Programming					
Week two:		Basic classes, static and partial					
Week three:		Constructors and destructors					
Week four:		Objects in programming					
Week five:		Hiding and visibility of classes					
Week six:		Reference types and value types					
Week seven:		Data access, attributes, properties, and methods					
Week eight:		First evaluation					
Week nine:		Inheritance and polymorphism of classes					
Week ten:		abstract classes and interfaces					
Week eleven:	•	Packages and collection of classes					
Week twelve:	_	Exceptions and error handling					
Week thirteen:	0	Basics of Graphical User Interface.					
Week fourteen:		Testing objects oriented programs					
Week fifteen:		Second evaluation					
Academic policies and rules							
Regular attendance of lectur	es and exercise	s is necessar	v. 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.