COURSE UNIT DESCRIPTION

Course Unit Title	Project Management in Information Technology		
Course Unit Code	AT800		
Type of Unit	Core		
Level of Course Unit	Second cycle		
Year of Study	First		
Number of ECTS Credits	6		
Course Unit Objectives	The objective of this course is to teach the students the fundamentals of software		
	development. The course has a strong focus on understanding the core	principles of	
	designing software solutions, and managing software projects using m	ethodologies	
	like SCRUM. There is a minor focus on coding the actual solutions.	C	
Learning Outcomes	On completion of this course students are expected to:		
_	CILO 1 Understand object oriented design and unit testing		
	CILO 2 Understand the basics of functional programming and the di	fferences to	
	object oriented programming		
	CILO 3 Learn how to use UML to design software		
	CILO 4 Learn and know how to use service oriented architectures in	software	
	CILO 5 Learn about software development methodologies like agile	, and	
	SCRUM which can be used to lead software development te	ams	
Name of Lecturer(s)	Dr. Ioannis Kourouklides		
Mode of delivery	Face to Face		
Prerequisites or corequisites	None		
Course Content	Introduction to object oriented design and UML	CILO 1,3	
	Introduction to functional programming	CILO 1	
	Testing code and quality assurance	CILO 1	
	The model-view-controller paradigm and software development	CILO 4	
	frameworks		
	Introduction to service oriented architecture: SOAP and REST	CILO 4	
	Software development methodologies	CILO 5	
Recommended or required	Textbooks:		
reading			
	Martin Fowler, UML Distilled: A Brief Guide to the Standard Object I	Modeling	
	Language, Addison Wesley, 2002		
	Alex Commutell Agile and Commune Commuter Credits Will of A dia 1987 of		
	Alex Campbell, Agile and Scrum: Complete Guide. What is Agile and What is		
	Scrum?, 2020		
	Optional textbooks:		
	Martin Fowler, Patterns of Enterprise Application Architecture, Addison Wesley,		
	2002		
	Vladimir Khorikov, Unit Testing:Principles, Practices and Patterns,Ma	anning	
	Publications, 2020		
	Articles & Journals:		
	<u>Online sources:</u>	0	
	nttps://www.geekstorgeeks.org/software-engineering-introduction-to-s	sontware-	
	engmeening		
	https://www.jayatpoint.com/software.engineering.tutorial		
	https://www.javatpoint.com/software-engineering-tutorial		
Planned learning activities	Lectures: in-class discussion and debates: in-class exercises: problem	sets: team	
and teaching methods	work: video case studies, team presentations, interactive online learning via Moodle		
	(quizzes, assignments, forums)		
Assessment methods and	10% class participation, 50% exam, 40% individual project		
criteria			

Language of Instruction	English
Work Placement(s)	Not applicable