



**THE CYPRUS INTERNATIONAL INSTITUTE OF MANAGEMENT**  
**COURSE UNIT DESCRIPTION**

Course Unit Title	<b>Object Oriented Programming</b>	
Course Unit Code	AT300	
Type of Unit	Core	
Level of Course Unit	Second cycle	
Year of Study	Modular	
Semester	Modular	
Number of ECTS Credits	6 ECTS	
<b>Class contact hours</b>	28	
<b>Minimum learning effort (in hours)</b>	150	
Course Unit Objectives	The objective of this course is to teach the students about the fundamentals of object orienter programming using the Java and C++ programming languages. After completion of this course, the students will be comfortable with designing object oriented architectures, and writing software following object oriented principles.	
Learning Outcomes	On completion of this course students are expected to:	
	CILO 1	Understand fundamental concepts of object oriented programming like classes, polymorphism, abstract classes and inheritance
	CILO 2	Know how to use the UML language for object-oriented designs
	CILO 3	Understand how object oriented programming can be used in the Java language
	CILO 4	Understand how object oriented programming can be used in the C++ language
	CILO 5	Write and develop object-oriented software
Name of Lecturer(s)	Maria Panayotou	
Mode of delivery	Face to Face	
Prerequisites or corequisites	None	
Course Content	Introduction to principles of object oriented programming	CILO 1
	Introduciton to UML	CILO 1,2
	Introduction to the Java programming language	CILO 3
	Introduction to the C++ programming language	CILO 4
	Developing object-oriented software	CILO 2,3,5
Recommended or required reading	<u>Textbooks:</u> Bjarne Stroustrup, A Tour of C++ (C++ In-Depth Series), Addison-Wesley, 2013 Y. Daniel Liang, Intro to Java Programming, Pearson, 2013  <u>Optional textbook:</u> Bruce F. Webster, Object-Oriented Programming for Dummies, Wiley & Sons, 2004  <u>Articles &amp; Journals:</u> <u>Online sources:</u>  <a href="https://www.w3schools.com/java/java_intro.asp">https://www.w3schools.com/java/java_intro.asp</a>  <a href="http://www.cplusplus.com/doc/tutorial/">http://www.cplusplus.com/doc/tutorial/</a>	
Planned learning activities and teaching methods	Lectures; in-class discussion and debates; in-class exercises; problem sets; team work; video case studies, team presentations, interactive online learning via Moodle (quizzes, assignments, forums)	
Assessment methods and criteria	10% class participation, 30% exam, 60% individual project	

Language of Instruction	English
Work Placement(s)	Not applicable