TUTORIAL COURSE FORM – 2018-2019 ACADEMIC YEAR

Name of the tutorial course (Erasmus/exchange students)	Object Oriented Analysis and Design
Professor	Name Florin Dumitriu Office B309 Email fdumi@uaic.ro
Semester in which the tutorial course is available	2
No. of ECTS credits	6
Level of study	Master
Short description/Contents	The main objective is to apply effectively the object oriented paradigm in the design of information systems components. **Contents:** Introduction to Object Oriented Analysis and Design Business process and functional modeling Structural modeling Behavioral modeling Software Architecture and UML Diagrams Design Patterns
Assessment	**Assessment criteria:** Part 1 – UML and OOD – writing test (30%) Part 2 – Design patterns – writing test (20%) System modeling with UML – project presentation (30%) Design patterns – project presentation (20%)
Bibliography	[1] Dennis, Alan, Barbara Wixom, David Tegarden. Systems Analysis and Design: An Object Oriented Approach with UML, 5th Edition. Wiley, 2015 [2] Larman, Craig, Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and Iterative Development, Third Edition, Addison Wesley Professional, 2004, ISBN: 0-13-148906-2 [3]Brown, W. H., Malveau, R. C., & Mowbray, T. J. (1998). AntiPatterns: refactoring software, architectures, and projects in crisis. [4] Dumitriu, F. et al. (2015), System analysis and design with UML and design patterns. A study case, electronic version
Observations	Competence-based prerequisites: Introduction to Object Oriented Programming