

Incoming student mobility

Name of UNIOS University Unit: SCHOOL OF APPLIED MATHEMATICS AND
INFORMATICS

COURSES OFFERED IN FOREIGN LANGUAGE
FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS

Department or Chair within the UNIOS Unit	School of Applied Mathematics and Informatics
Study program	<ul style="list-style-type: none"> Undergraduate university study programme in Mathematics and Computer Science
Study level	Undergraduate (Bachelor)
Course title	Software Engineering
Course code	I052
Language of instruction	English
Brief course description	<p>Syllabus.</p> <ol style="list-style-type: none"> 1. Introduction. Basic notions in software engineering. Models for software engineering. Classic and agile methods in software development. Software project management. 2. Requirements. Requirement analysis. Detection of requirement. System modelling. 3. Modelling and implementation. Architecture modelling. Object-oriented approach in modelling. Modelling of distributed systems. Modelling and implementation of Modelling and implementation of embedded systems. 4. Verification and validation. Static verification. Software testing. 5. Maintenance and evolution. Configuration management. Legacy systems and its evolution. 6. Software reuse. Traditional forms of software reuse. Component based software development. Application development with the help of web services.
Form of teaching	Consultative teaching.
Form of assessment	Lectures will contain many examples with in-depth explanations. Lectures and exercises are obligatory. Exercises will be held in computer laboratories. The final exam will be held after the completion of lectures and exercises and it will contain theoretical

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	and practical tasks each student will have to complete independently. Students can influence their final grade by successful completion of homework that will be given to students on a regular basis.
Number of ECTS	6
Class hours per week	2+2+0
Minimum number of students	
Period of realization	Summer semester
Lecturer	Alfonzo Baumgartner