COURSE DESCRIPTION – ACADEMIC YEAR 2018/2019

Course title	Seminars in Software and IT Engineering
Course code	72125
Scientific sector	INF/01
Degree	Master in Computer Science (LM-18)
Semester	1
Year	2
Credits	4
Modular	No

Total lecturing hours	24
Total lab hours	
Total exercise hours	12
Attendance	Required.
Prerequisites	
Course page	https://ole.unibz.it/

Specific educational objectives	The course belongs to the type "affini o integrative – formazione affine" in the curriculum "Software Engineering and IT Management".
	The course provides a general overview of methods and practices in Software Engineering. It has the objective to enable students to understand principles of Software Engineering and apply these principles in their work as software engineers.

Lecturer	Ilenia Fronza
Contact	Piazza Domenicani 3, Room 1.08, ilenia.fronza@unibz.it
Scientific sector of lecturer	INF/01
Teaching language	English
Office hours	Arrange beforehand by email.
Lecturing Assistant (if any)	
Contact LA	
Office hours LA	
List of topics	 Fundamentals of methodology for research in Software and IT Engineering Discussion of research papers including key areas of Software and IT Engineering
Teaching format	The course is organized as hands-on activity in which students learn how to present scientific papers or textbook chapters on Software Engineering. The students will have to prepare a video seminar. The lecturer will assist students in studying the material and preparing the video. Students will then watch all the videos and discuss the material in a group.

Learning outcomes	 Knowledge and understanding Thoroughly understand the scientific method of
	investigation.
	Applying knowledge and understanding



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	Be able to understand and write documentation for
	technical, scientific reporting
	Making judgments
	 Be able to identify reasonable work goals and estimate the resources required to achieve the objectives
	Be able to independently select the documentation required
	to keep abreast of the frequent technological innovations
	Communication skills
	• Be able to present the content of a scientific / technical
	report in front of an audience also composed of non-
	specialists
	Be able to interact and collaborate with peers and experts in
	the realization of a project or research
	Learning skills
	Be able to independently keep up to date with the
	developments in the most important areas of Computer Science
	Be able to autonomously extend the knowledge acquired
	during the study course by reading and understanding
	scientific and technical documentation
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Assessment	 The assessment of the course consists of two parts: a video seminar on a scientific paper or textbook chapter on Software Engineering; oral exam after the lecture span on all videos prepared throughout the course.
Assessment language	English
Assessment typology	Monocratic
Evaluation criteria and criteria for awarding marks	 Video seminar and active participation in the course (70%). This component of the assessment covers mainly communication skills; in the discussions the students can also show their ability to classify and judge scientific publications. Final oral exam (30%) consists of questions on all video seminars prepared throughout the course, in particular, on the presented papers and chapters. In this component, the students mainly demonstrate their ability to learn by showing their understanding of the different topics.

Required readings	 Schach, S. (2011) Object-oriented and classical software engineering (8th ed.) McGraw-Hill Vliet, H. (2008) Software Engineering Principles and Practice (3rd ed.) Wiley Salmre, I. (2005) Writing Mobile Code: Essential Software Engineering for Building Mobile Applications. Addison-Wesley
Supplementary readings	Additional readings will be communicated during the seminar.



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	Software used	
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