

COURSE DESCRIPTION – ACADEMIC YEAR 2017/2018

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	<p>The course belongs to the type "affini o integrative – formazione affine" in the curriculum "Software Engineering and IT Management".</p> <p>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.</p>
Lecturer	Roman Kontchakov
Contact	Piazza Domenicani 3 , Room 1.04, Roman.Kontchakov@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	<ul style="list-style-type: none"> • 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 a series of seminars, where students present scientific papers or textbook chapters and discuss the material in a group. The lecturer will assist students in studying the material and preparing the presentation.
Learning outcomes	<p>Knowledge and understanding</p> <ul style="list-style-type: none"> • Thoroughly understand the scientific method of investigation. <p>Applying knowledge and understanding</p> <ul style="list-style-type: none"> • Be able to understand and write documentation for technical, scientific reporting

	<p>Making judgments</p> <ul style="list-style-type: none"> • 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 <p>Communication skills</p> <ul style="list-style-type: none"> • 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 <p>Learning skills</p> <ul style="list-style-type: none"> • 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
<p>Assessment</p>	<p>The assessment of the course consists of two parts:</p> <ul style="list-style-type: none"> • presentation of a scientific paper or textbook chapter on Software Engineering; • oral exam after the lecture span on all presentations given throughout the course.
<p>Assessment language</p>	<p>English</p>
<p>Evaluation criteria and criteria for awarding marks</p>	<ul style="list-style-type: none"> • Presentation of a paper or a textbook chapter and active participation in the seminar (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 the topics presented in the seminars, 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 topics discussed in the seminar.
<p>Required readings</p>	<ul style="list-style-type: none"> • 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
<p>Supplementary readings</p>	<p>Additional literature will be communicated during the seminar.</p>
<p>Software used</p>	<p>--</p>