

Course Introduction

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Software Project Management MSc in Computer Science University of Camerino

SPM

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Course Responsible, Lessons, Exams

- Andrea Polini
 - e-mail: andrea.polini@unicam.it
- Software Project Management
 - lessons:
 - Wednesday from 9am to 11am
 - Thursday from 9am to 11am
 - web: http://didattica.cs.unicam.it/...
- Exam dates:
 - Wednesday, February 5th and 26th, 2020 at 9am
 - Wednesday, June 17th, 2020 at 9am
 - Wednesday, July 8th, 2020 at 9am
 - Wednesday, September 9th and 23th, 2020 at 9am
 - Wednesday, February 3th and 24th, 2021 at 9am

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Course Organization

- SPM (~6ETCS) illustrates two quite orthogonal approach to software project management:
 - Project Management following "Command and Control" inspired approaches
 - Project Management following agile strategies

Course Objectives

Knowledge and Abilities

The course intends to provide to the students basic knowledge on the subject of project management in relation to the development of complex software systems. At the end of the course you should be able to understand why making prediction on software development is so complex and strategies for project planning, resource allocation executions, monitoring, etc.

At the same time at the end of the course you will have learned the principle of agile methodologies and you will be able to apply SCRUM to the development of a complex software system.

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Study material 1/2

Reference books:

📎 Bob Hughes, Mike Cotterell Software Project Management, 5th Ed. McGraw-Hill. 2009



Andrew Stellman and Jennifer Greene Learning Agile Understanding Scrum, XP, Lean, and Kanban O'Reilly 2015.

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Study material 2/2

Additional textbooks.



Roger Pressman and Bruce Maxim Software Engineering a Practioner's Approach 8th Ed. McGraw-Hill 2015.



🛸 Ian Sommerville Software Engineering 10thEd. Addison Wesley 2016.

Nitch Lacey The SCRUM Field Guide Pearson 2016.

🐚 Robert K. Wysocki Effective Project Management 7thEd. John Wiley and Sons 2014.

PMI Certification



Visual Paradigm



Visual Paradigm supports Università di Camerino with UML tools and ERD tools under the Visual Paradigm Academic Training Partner Program.

UNICAM students can downoad and install the enterprise version of Visual Paradigm at the following link:

https://ap.visual-paradigm.com/universita-di-camerino

Contents

- Software Development Processes
- Agile Project Management
 - Scrum
 - eXtreme Programming (XP)
 - Lean
 - Kanban
- Principles of Software Project Management
- Project and Programme Management
- Project Estimations and Planning (COCOMOII)
- Activity Management
- Risk Management
- Resource Allocation
- Project Execution and Monitoring

Final Exam!!!

- 1. Group project (2-3 members under "negotiation")
 - You will be asked to develop a project over the duration of the semester with intermediate checkpoints (meeting with the teachers/product owner). The group will have to use the typical practices of SCRUM.
 - the project requires to deliver a working prototype that will be illustrated to the teacher. The date for the discussion meeting has to be agreed in advance, and one week before the meeting a report has to be delivered to the teacher, and the software released.
- 2. Written paper date fixed for the exam
 - The paper will include questions and exercises on the main topics of the course

The mark is structured according to a "50-50" schema considering respectively the project, and the written paper. For both papers the pass mark is fixed to 18. Students willing to improve their final mark can ask for an additional oral examination.

Any order to respect?

The project has to be delivered before taking part to the written paper.

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Software Development Processes

- What doos software life-cycle mean?
- Can you clearly state the differences between activities vs. phases?
- Can you list relevant perspectives for a software development process?
- Can you mention at least one software development process model?