Course Introduction

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Software Project Management
MSc in Computer Science
University of Camerino

A.Y. 2016/2017

Course Responsible, Lessons, Exams

- Andrea Polini
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- Software Project Management
  - lessons:
    - Tuesday 11am to 1pm
    - Wednesday 9pm to 11am
    - Thursday 11am to 1pm
  - web: http://didattica.cs.unicam.it/...

- Exam dates:
  - February 7th and 28th, 2017
  - April 11th, 2017
  - June 6th, 2017
  - July 4th and 18th, 2017
  - September 12th and 26th, 2017
  - February 8th and 28th, 2018

Course Organization

The course is structured over three different parts:

- Software Project Management (6CFU)
- "Market Analysis and Strategies" (3CFU)
  - starting in November (day to be defined)
- Certified Associate in Project Management (CAPM$^{©}$) – PMI certification (3CFU) – *agreement pending*
  - intensive course in January (3 full days)
  - teachers from the PMI Italian chapter b
  - the course is preparatory and permit to take the certification exam

Course Objectives

The course intends to provide to the students basic knowledge on the subject of project management with a particular emphasis on the production of complex software systems. At the end of the course you should be able to understand the complexities of project planning and executions, as well as to apply techniques and methods to handle such a complexity.

Study material - SPM Part

- **Reference books**:

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

- **Additional textbooks**:

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

  - 📚 Ian Sommerville
    Software Engineering $10^{th}Ed$.
    Addison Wesley 2016.

  - 📚 Ashfaque Ahmed
    Software Project Management – A Process Driven Approach
    CRC Press 2012.

- **PMI Certification**

  - 📚 *PMBOK Guide*

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Contents

- Software Development Processes
- Principles of Software Project Management
- Project Planning
- Risk Assessment
- Cost Estimation
- Staffing
- Configuration management
- Project Monitoring
- Agile Project Management
    - Scrum
    - eXtreme Programming
    - Lean
    - Kanban

Final Exam!!!

1. Group project (4-5-6 members – under "negotiation")
   - You will be asked to carry on a project over the duration of the semenster with intermediate checkpoints (meeting with the teacher)
   - the project requires to deliver a working prototype that will be illustrated to the teacher. Date of the discussion meeting have to agreed in advance and one week before the meeting a report have to be sent via e-mail in pdf format
   -

2. Written paper – date fixed for the exam
   - The paper will mainly include questions on the three parts (students can cover the PMI part getting the certification)

The mark is structured according to a "40-20-20-20" balance considering the project, and the three parts of the written paper corresponding to the three parts of the course

Any order to respect?

The two different parts do not foresee any order of execution. The project is a real group project so the team make the exam all together.

Software Development Processes

- What do we mean for software life-cycle?
- 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 on software development process model?

Positions available

I'm hiring people at different levels, software analysts, project managers, software developers . . .

Please apply sending to me, by Tuesday October 18th, your CV to get a position!!

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