



## COURSE PRESENTATION FORM – ACADEMIC YEAR 2010/2011

<b>COURSE NAME</b>	<b>Software Process Management</b>
<b>COURSE CODE</b>	72003 (MSc New – DM 270) / 70103 (MSc Old – DM 509)
<b>LECTURER</b>	<a href="#">Alberto Sillitti</a>
<b>TEACHING ASSISTANTS</b>	TBD
<b>TEACHING LANGUAGE</b>	English
<b>CREDIT POINTS</b>	8
<b>LECTURE HOURS</b>	48
<b>EXERCISE HOURS</b>	24
<b>TIME SPAN</b>	27.09.2010 - 21.01.2011
<b>TIME TABLE</b>	See <a href="#">Timetable Page</a>
<b>OFFICE HOURS LECTURER</b>	During the lecture time, TBD, <a href="#">Faculty of CS, POS Building, piazza Domenicani 3</a> , office 1.17
<b>OFFICE HOURS TEACHING ASSISTANT</b>	TBD
<b>PREREQUISITES</b>	Basic Software Engineering and programming (Java or C/C++) skills.
<b>OBJECTIVES</b>	To provide a comprehensive background for understanding and managing the development process in a software company including both SMEs and IT departments of large companies.
<b>SYLLABUS</b>	<ul style="list-style-type: none"><li>• The Plan-based approach</li><li>• The Agile approach<ul style="list-style-type: none"><li>○ XP</li><li>○ SCRUM</li></ul></li><li>• Personal Software Process (PSP)</li><li>• Team Software Process (TSP)</li><li>• Process Improvement<ul style="list-style-type: none"><li>○ Access the status of a software process</li><li>○ Define and implement a measurement plan</li><li>○ Define and implement a Process Improvement Plan</li></ul></li><li>• Discussion with managers of the software industry</li></ul>
<b>TEACHING FORMAT</b>	<ul style="list-style-type: none"><li>• Lectures</li><li>• Experience reports from IT managers</li><li>• Exercises in lab related to Open Source Software</li></ul>



## ASSESSMENT

- Project (50%)
- Oral (50%)

## READING LIST

- Lecture notes

Suggested readings:

- T. DeMarco, *Controlling Software Projects – Management, Measurement & Estimation*, Yourdan Press, 1982.
- N.E. Fenton, S.H. Pfleeger, *Software Metrics: a Rigorous and Practical Approach*, Thomson Computer Press, 1994.
- W. Humphrey, *A Discipline for Software Engineering*, Addison-Wesley, 1995.
- S. McConnell, *Rapid Development: Timing Wild Software Schedules*, Microsoft Press, 1996.
- T. Poppendieck, M. Poppendieck, *Lean Development Software: Agile An Toolkit for Software Development Managers*, Addison-Wesley, 2003.

## SOFTWARE USED

- Eclipse
- JUnit
- Subversion

## LEARNING OUTCOME

At the end of the course students will be able to:

- understand problems related to the software process
- adapt the standard process to the needs of a specific environment
- manage the execution and the optimization of a software team.

## COURSE PAGE

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