Project Management I\textsuperscript{a,b}

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1 Description

The unit covers techniques for the agile management of software development projects, with emphasis on Scrum. Skill development includes comprehension of the Scrum method and the capacity to act as a Scrum master and/or as a member of the executive team.

2 Teaching and assessment

\textbf{Class format} Presentations, reflections, questions
\textbf{Project} Custom software development for the needs of a client (v.§ 4)
\textbf{Workgroups} ca. five (5) students: client, scrum master, developers
\textbf{Criteria} Traceability, objectivity, precision, accuracy (Perdicoúlis, 2012)

3 Programme

\textbf{S01} Unit presentation and logistics
\textbf{S02} Projects: cultures and styles; conception and execution
\textbf{S03} Agile approach (e.g. Scrum); roadmaps; progress
\textbf{S04} Classic approach (e.g. cascade); perspectives
\textbf{S05} Strategy and operation; software engineering
\textbf{S06} Backlogs (e.g. product, sprint)
\textbf{S07} Actors (e.g. product owner, Scrum master, team); working sample
\textbf{S08} Action (e.g. tasks, sprints)
\textbf{S09} Auxiliary aspects (e.g. resources, risks, quality)
\textbf{S10} Techniques (e.g. backlogs, burndown chart)
\textbf{S11} Communication (e.g. daily scrum, sprint retrospective)
\textbf{S12} Team work (e.g. sense of common, cohesion, dedication)
\textbf{S13} Global revision/ preparation for the final document
\textbf{S14} General discussion

\textsuperscript{a} Agile/ Scrum — Software Engineering
\textsuperscript{b} Corresponds to the unit’s generic configuration — v. SIDE for current specifics
4 Report

1. Introduction ............................................. the company; the client; the work
2. Product backlog (global) ......................... requirements (e.g. features/ functions)
3. Sprint backlog (select one) ................. requirements (e.g. features/ functions); tasks
4. Burndown chart (global) ....................... remaining tasks (standard); executed tasks (optional)
5. Daily scrum report (select one) .......... requirements & tasks: to do; doing; done
6. Sprint review (select one) ......................... re: product
7. Sprint retrospective (select one) ................ re: work, team
8. Wrap-up ....................................................... prospective; observations

5 Reading list

Perdicoúlis, A. (2015a) Iterations in planing and management. Systems Planner, 34.