An Agile Framework for Teaching with Scrum in the IT Project Management Classroom

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Abstract

This paper presents a framework for teaching a complete, semester-long IT project management course with traditional PMI-based content (sans software development) while featuring Scrum as the organizing logic for accomplishing coursework. This framework adapts widely-used Scrum practices from industry for use in the classroom, including how to organize student teams, homework, and activities. Organizing an existing course with Scrum is intended to maximize student learning of traditional project management content, as well as the difficult-to-teach, socially complex, “soft” skills that lead to Scrum team success. This deep integration of Scrum into a traditional, predictive IT project management course goes well beyond single activities or units without crowding out valuable time and material. A brief overview of the agile philosophy and examples of teaching Scrum in the classroom situate this work in the teaching and learning literature. Classroom-tested Scrum rituals and example artifacts are provided to illustrate how to apply the framework. This group-based, iterative, and hands-on approach equips students to better internalize and understand the complex social interactions involved with a self-organizing team, concepts that are difficult to learn without first-hand experience. The proposed framework will help IS educators implement Scrum practices in their own courses, further addressing industry’s increasing demand for IS professionals with Scrum experience.

Editors Note: This presentation represents the best paper submitted to JISE in 2020. The full text may be found at: http://jise.org/Volume31/n3/JISEv31n3p196.html