

Development of rating scales for the evaluation of physical space and the learning process – pilot study

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Our study was part of a larger project to determine the influence of environmental variables on participants' experiences. The aim of our study was to develop and test two instruments: (1) to measure the experience of environmental variables in the classroom and (2) to measure the experience of the learning process. We developed two rating scales based on a literature review in a group of researchers: Perception of physical space (14 items) and Perception of Learning Process (8 items). The scales were tested in a university course (Technical measurement) by 14 university students and their teacher. During the implementation of the course (12 sessions), two environmental variables were changed: the arrangement of the desks and the presence of the additional equipment, so that the four experimental conditions were each repeated three times. Students completed the rating scales in paper-pencil format three times in each session: before the start of the lecture, during the break and at the end of the lecture. At the end of the study, a focus interview was conducted with the students to discuss the implementation of the measurement and rating scales. The poster will present examples of measured differences in students' experience of the physical space and the learning process under individual conditions, as well as ways to improve the rating scales and their use to detect perceptual changes in the learning process.

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Primary author: Dr DEPOLLI STEINER, Katja (University of Ljubljana, Faculty of Arts)

Co-author: Dr PEKLAJ, Cirila (University of Ljubljana, Faculty of Arts)

Presenter: Dr DEPOLLI STEINER, Katja (University of Ljubljana, Faculty of Arts)

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