DAME – Digital assessment in the context of modular education

Proposal for the Education Innovation Funds

Prof. dr. ir. Ines Lopez Arteaga

GOAL

Develop a formative and summative assessment framework and the corresponding digital tools to make modular on-demand education feasible and implement in the context of the course 4DB00 Dynamics and Control of Mechanical Systems

MOTIVATION

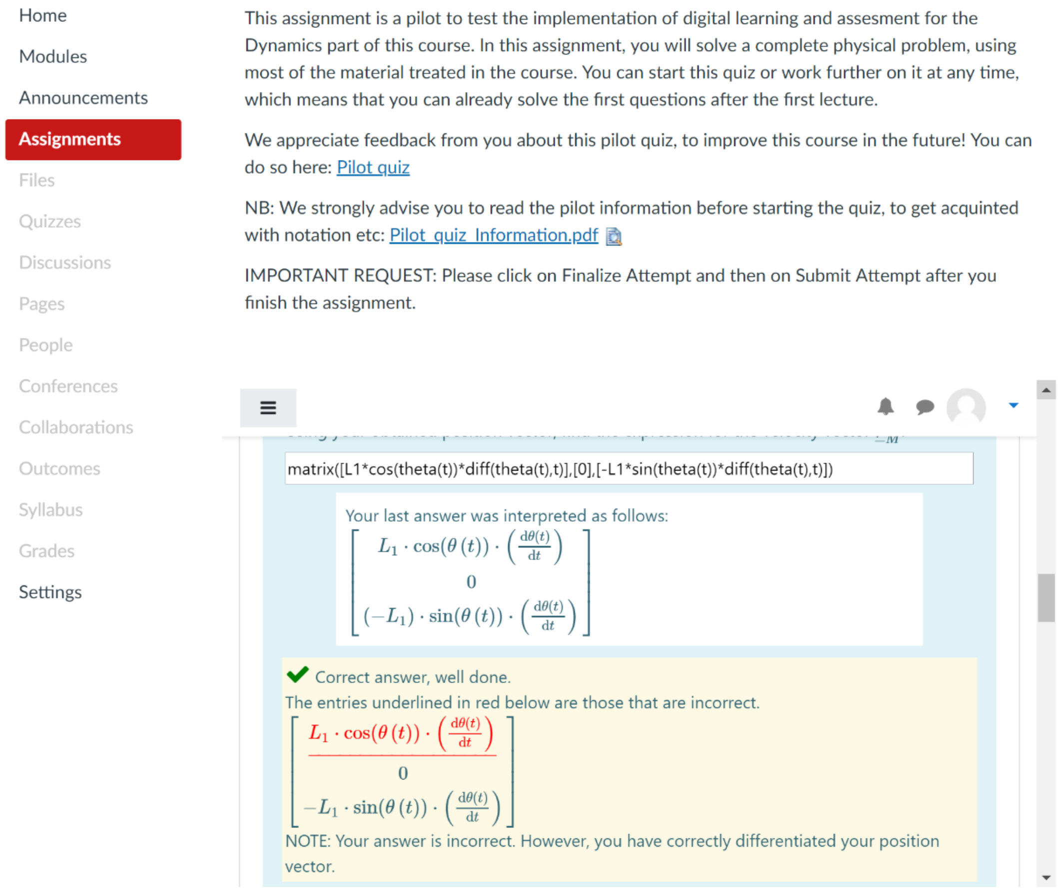
The success of the project CMODE Constructing knowledge with Modular On-demand Digital Education, depends for a significant part on a good design of the formative and summative assessment strategy and the availability of the needed digital assessment tools.

In the educational innovation project eFABLES – Smart digital formative assessment in the context of blended learning, we have developed a digital (formative) assessment tool that makes it possible to formulate open questions for problems involving relatively complex mathematical calculations and provide students with tailored corrections to their answers. The screenshot in the appendix gives a glimpse of how the tool works. Currently we are running a pilot in the course 4DB00 Dynamics and Control of Mechanical systems and we expect to have the reporting ready in February 2019.

The experience with eFABLES has made me realize that the resources we have in CMODE are not sufficient to develop the assessment framework and digital tools we need. Hence this request for funding to make a thorough design of the assessment framework in de context of modular education.

APPENDIX: Screenshots eFABLES tool

Student view in Canvas



View of a subset of the questions and answers in MOODLE