Innovative teaching and assessment methods

Chemical Reaction Engineering - S1 2024

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# 1. Outline

# 2. Motivation

We tried to implement a different teaching method this semester in the reaction engineering unit. The method includes teaching through in-class, problem-solving activities, using programming tools for solving simultaneous ODEs, open-book portfolio assessments, etc. Our attempt is to provide students interactive learning and project or problem-based learning and assess them on their understanding of concept.  
The session will focus on sharing the changes we made, teaching strategies, and assessment methods. We like to share the outcomes of these changes, including student engagement, comprehension levels, challenges, and overall performance in the unit. We also want to gather feedback from you, exchange insights, and discuss potential improvements or further innovations that could be integrated into future courses. The session will also be an excellent opportunity to reflect on best practices, pedagogical challenges, and the impact of novel approaches on student learning outcomes in the engineering discipline.