

## **LESSONS FROM THE PANDEMIC – IMPROVING STUDENT ENGAGEMENT AND LEARNING IN ENGINEERING DYNAMICS IN THE FACE-TO-FACE LECTURE SETTING**

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Keeping students engaged and focused on learning has always been a challenge in Engineering Dynamics. Students come from all major engineering programs, and they range from the freshman to the senior level. As lectures went online during the pandemic, the challenges were magnified. To meet these challenges, a modified version of MUSIC (empowerment, usefulness, success, interest, and caring) model of student motivation (Jones, 2009) was implemented with mixed results. In fall 2021, lectures were face-to-face. The model was implemented again in 4 sections with a total of 90 students. Based on the scores of student performances in assignments, and comparison with pre-pandemic semesters, improvements were observed. However, within any given section, students at the junior/senior level performed much better than students in the freshman/sophomore level.

