

Department of Mathematics and Statistics Colloquium

Using Self-produced Videos to Enhance Student Learning with Online Homework/Tutorials

Maritz Snyders

Nelson Mandela Metropolitan University

Abstract: Students who are doing a Mathematics course as a compulsory additional or service course and not because they have an interest in Mathematics sometimes tend to spend an insufficient amount of time on practical applications of work done in class. This is in particular the case where teaching takes place in large groups with no opportunity to have practical small group sessions during class time. Online homework or tutorials is one of the ways that are used at various universities to encourage and motivate students to do some work on their own. While various research reports have demonstrated the success of such an approach, it has certain shortcomings when compared to face-to-face practical work sessions for students. This talk will describe the design and implementation of an online homework/tutorial system to address these shortcomings, including the production of custom made videos that can be watched by students at the Nelson Mandela Metropolitan University in South Africa. The videos can be produced by any instructor in his or her office without any specialized electronic equipment, utilizing Camtasia video producing software on any laptop. The talk will further discuss some findings of a research project to determine the effectiveness of the system.

Monday, October 24 at 3:45 in Roop 103

refreshments at 3:30