



GUJARAT TECHNOLOGICAL UNIVERSITY

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CIRCULAR

Interested faculty members and students may register for the following webinar which is going to be held on Wed, May 13, 2015 3:30 PM - 4:30 PM IST.

Virtual Academy: Spatial Skills; By Stephanie Farrell, Rowan University

Wed, May 13, 2015 3:30 PM - 4:30 PM IST.

Registration URL: <https://attendeegotowebinar.com/register/5516772470318647554>

Abstract:

Spatial ability is the capacity to understand, remember and transform spatial relations among different visual images. Spatial ability is a type of intelligence that is distinct from others such as verbal reasoning and memory. A well-established link exists between spatial skills and academic and professional success in STEM fields, and spatial abilities are a strong predictor of both retention and academic achievement in engineering. The development of spatial skills is influenced by a vast array of factors including gender, race, ethnicity, culture, primary language, socio-economic status, educational level, and experiences. Most of the research on spatial skills related to engineering education has focused on gender: Gender differences favouring men are robust, the gender gap in spatial ability can be closed through intervention in a relatively short time, and intervention to improve spatial skills results in improved academic success and retention in STEM. Cross-cultural differences in spatial ability are also robust, and there is emerging interest in how these variations in spatial ability may affect academic and professional success in STEM. This webinar will explore how STEM students may be disadvantaged by poor spatial skills and show how academic success in STEM can be improved through relatively short, direct training to improve spatial skills.

Presenter:

Stephanie Farrell

Professor, Chemical Engineering,

Rowan University.