ID 617

Perceptions of Civil Engineering Undergraduates on Using Learning Management System (LMS) and Zoom Platform for Online Design Studio Teaching

FR Arooz^{1#}, MPWP Abeyrathna², A Gunawardana², RR Jayasinghe² and RU Halwatura²

¹Faculty of Built Environment & Spatial Sciences, General Sir John Kothelawal Defence University, Sri Lanka

²Department of Civil Engineering, University of Moratuwa, Sri Lanka

#frarooz@kdu.ac.lk

As the COVID-19 pandemic continues, 'online teaching and learning' became the only possible solution to continue the education programmes at universities. Though there are multiple solutions presented in the educational literature, many of the universities were not prepared to carry out complete online-based educational models in their degree programmes. Therefore, converting the teaching process; mainly studio base design teaching from physical to online was a whole new experience to most of the academia in developing countries. Further, it is a challenge to run these virtual teaching processes with limited technological resources for a long time. This study was conducted to investigate the perceptions of online based education using the Learning Management System (LMS) and Zoom platform for a studio base module. Thus, the methods were adopted to evaluate influencing factors of the online learning experience of the subject. Quantitative analysis was used where unstructured and structured questionnaires were conducted among students. Finally, the students' perceptions of online learning experience for a studio base module were presented.

Keywords: online teaching/learning, Moodle, Learning Management Systems (LMS), Zoom, studio teaching, project-based learning, student perceptions, civil engineering curriculum