

22/2020

INSPEM'S ONLINE WEEKLY SEMINAR

DATE : 24 JULY 2020 | TIME : 3.15 PM
MEDIUM : VIDEO CONFERENCE (GOOGLE MEET)

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Topic : Investigating the Use of ICT Tools by Academicians to Promote Higher Order Thinking Skills among University Students

ABSTRACT

This study investigated how ICT tools was used by academicians in Mathematics department to promote higher order thinking skills (HOTS) among university students. The study used quantitative and qualitative method in the form of questionnaires and interview to capture the data from eleven academicians from two local public universities in Malaysia. The data were analysed in terms of content analysis and descriptive analysis. The result showed that the academicians used desktop applications, presentation software, e-learning portals, social networks, programming software and learning software (e.g., Geogebra) in their learning activities such as group discussion, problem-based learning and team-based learning. This assisted the students to visualise and subsequently understand the Mathematics concept better as well as communicate and collaborate more frequently and effectively with instructors and peers, thereby promote HOTS among the students. This study contributed in terms of expanding readers understanding on the ICT tools used by the academicians in their teaching and learning activities and how these can enhance the students' HOTS.

Keywords: *mathematics; higher learning institution; interview; visualise; technology*

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