

5 – 7 June 2026

Nice , France

## How AI Tools Influence the Academic Performance of Undergraduate Students in a POE module?

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### Abstract

Artificial Intelligence (AI) tools are rapidly transforming higher education, influencing how students engage with content, instructors, and peers. Tools like Canva, Chatbots, intelligent tutoring systems, HubSpot, and AI-driven analytics are becoming essential in industry practices and are increasingly being integrated into higher education. The adoption of AI tools in universities is shaping how students engage with the content and learning experiences. The paper seeks to evaluate the impact of AI tools on undergraduate students' performance in a portfolio of evidence (POE) module. The aim of the study is to analyse the impact of AI tools on student performance. The research questions for the study are 1) What type of AI tools commonly used by undergraduate students? 2) Does AI tool improve performance of students? and 3) What effects does AI have on undergraduate students? The Technological Pedagogical Content Knowledge model is the overarching theory. Data will be collected from undergraduate students at a private institution of higher learning using self-administered questionnaire. The theorised relations will be analysed using SPSS and Mplus.

**Keywords:** Academic Performance; Artificial Intelligence; Learning Experiences; Student Engagement