Innovation in Learning and Teaching: A Project-Based Approach to Engineering Education – Teachers’ Perspectives

Dr Robin Clark and Dr Jane Andrews
School of Engineering and Applied Science
Aston University

Abstract

The project explored the implementation of a problem-based learning approach for all first year students in the Mechanical Engineering and Product Design Degree Programmes. Specifically the project focused on the key features for a successful implementation as viewed from both the staff and student perspectives. The findings have allowed the planning of a staff development toolkit, the details of which will be finalised and then, following implementation, the impact will be evaluated.

Keywords: problem-based learning, staff perspective, student perspective, training

This work is in progress and a full case study will be available soon.