DESIGNING SIMPLE ACTIVITIES IN FLUID MECHANICS FOR EASY LEARNING FOR G.C.E A/L STUDENTS

A PROJECT REPORT PRESENTED BY

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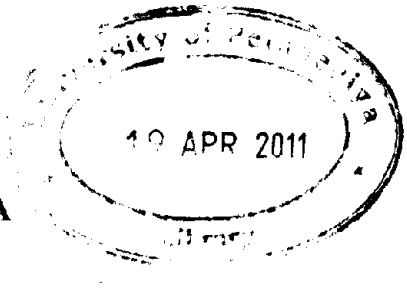

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Abstract

Physics is one of the essential subjects in understanding technical world and it's several aspects such as further learning, training and vocation. However, in accordance to Department of Examination statistics, the performance in Physics at G.C.E (A/L) examination is not satisfactory with average marks over the recent years being nearly 40. Hence, there is a need to enhance teaching Physics and learning activity and one of the best ways of doing it is through practical based teaching.

Based on feedback from teachers and students on Fluid Mechanics, a sub unit in the A-level Physics syllabus, it was identified that students face difficulties in understanding the said subunit because there is insufficient experiment in the syllabus for this subunit. Hence, this work reveals how practical based learning enhances understanding fluid mechanics.

In this work, new experiments in Bernoulli's concept have been introduced through designing new laboratory instruments. By teaching fluid mechanics through these new experiments to A-level students an enhancement in student's understanding and performance was observable.