

# Revitalizing First Year Electrical Engineering

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***Abstract:** Creating a first year engineering unit which is stimulating, exciting, but still covers the 'raw' material required can be a difficult task. The undergraduate engineering course at Monash University includes a 'common' first year, in which students have a taste of many engineering disciplines before choosing to complete their degree in a particular field. This paper describes and assesses the methods used to re-engage with students and revitalize the unit: better use of electronic resources, regular online student assessment during semester and new laboratory experiments.*

## 1. Introduction

This paper presents the transformation of ENG1030: Electrical Systems, to better meet students' expectations and improve the quality of teaching. Designing a first year unit that meets the huge range of requirements is hard: Electrical engineering has in the past been considered a 'difficult' unit, and students enter the course with a range of different backgrounds. Some students will choose to pursue further studies in this field, or it may serve as a 'terminal' unit for other students who choose to study other engineering disciplines. The unit also needs to serve as something of 'sales pitch' for studies in electrical engineering: some students will be undecided on their choice of engineering specialization, and the quality of the first year unit has a direct bearing on their perception of the field.

ENG1030 had been taught in a similar manner for many years at Monash University, with 'traditional' content delivery and assessment. As part of this process of renewal, efforts were made to modernise the unit in many aspects, including creating modern and relevant laboratory experiments, embracing online teaching technologies, changing assessment to provide regular testing of students during semester, and an updating other resources to give a consistent look and re-useable high quality content in future semesters.

## 2. Background

There is a wealth of literature detailing the design of effective first year units and courses. The idea of Problem Based Learning (Norman & Schmidt, 1992) has been used in many courses (Steedman, Smith, Kelcher, & Martin, 2006) (Brodie & Porter, 2008) (Mantri, Dutt, Gupta, & Chikara, 2008) as an effective way to help students come to terms with unfamiliar ideas, by allowing them to explore the concepts in a collaborative, interactive environment. (Smaill, Godfrey, & Rowe, 2007) found that students entering an first year electrical engineering course can have vastly different understandings of basic physics material.

Additionally, efforts have been made to integrate technology into classrooms and course delivery: online assessments (Deeks, 1999), effective use of online content management systems (Yench, Crosky, Wilk, & Allen, 2008) and as an aid in managing units with large enrolments (Williams & Sher, 2007). (Hadgraft, 2007) emphasises the need for more effective integration of online assessment in teaching and a better understanding of what online resources are available.

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