

Revitalizing First Year Electrical Engineering

David McKechnie

Monash University Department of Electrical and Computer Systems Engineering, Clayton, Australia
david.mckechnie@eng.monash.edu.au

Vineetha Kalavally

Monash University Department of Electrical and Computer Systems Engineering, Sunway, Malaysia
vineetha.kalavally@eng.monash.edu.my

***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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Table of Contents First Year Electrical Engineering Shingare

1. Understanding the eBook First Year Electrical Engineering Shingare
 - The Rise of Digital Reading First Year Electrical Engineering Shingare
 - Advantages of eBooks Over Traditional Books
2. Identifying First Year Electrical Engineering Shingare
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an First Year Electrical Engineering Shingare
 - User-Friendly Interface
4. Exploring eBook Recommendations from First Year Electrical Engineering Shingare
 - Personalized Recommendations
 - First Year Electrical Engineering Shingare User Reviews and Ratings
 - First Year Electrical Engineering Shingare and Bestseller Lists
5. Accessing First Year Electrical Engineering Shingare Free and Paid eBooks
 - First Year Electrical Engineering Shingare Public Domain eBooks
 - First Year Electrical Engineering Shingare eBook Subscription Services
 - First Year Electrical Engineering Shingare Budget-Friendly Options
6. Navigating First Year Electrical Engineering Shingare eBook Formats

- ePub, PDF, MOBI, and More
 - First Year Electrical Engineering Shingare Compatibility with Devices
 - First Year Electrical Engineering Shingare Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of First Year Electrical Engineering Shingare
 - Highlighting and Note-Taking First Year Electrical Engineering Shingare
 - Interactive Elements First Year Electrical Engineering Shingare
 8. Staying Engaged with First Year Electrical Engineering Shingare
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers First Year Electrical Engineering Shingare
 9. Balancing eBooks and Physical Books First Year Electrical Engineering Shingare
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection First Year Electrical Engineering Shingare
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine First Year Electrical Engineering Shingare
 - Setting Reading Goals First Year Electrical Engineering Shingare
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of First Year Electrical Engineering Shingare
 - Fact-Checking eBook Content of First Year Electrical Engineering Shingare
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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