

**DEPARTMENT OF ELECTRONIC ENGINEERING**

**Unit Quality Assurance Report**

**YEAR:** 2005  
**SEMESTER:** 2  
**UNIT CODE:** ELE42ATB  
**UNIT TITLE:** Advanced Topics B  
**LECTURER(S):** J Devlin  
**CLASS SIZE:** 28

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**UNIT OBJECTIVES:**

This unit was put on

- a) as a replacement for Antennas and Propagation which was not given due to staff unavailability
- b) as a trial to try to include more industry participation in the course, and provide real world case studies from industry.
- c) If successful we would consider running it as a permanent replacement for antennas.

Description:

In general this subject covers aspects of compliance engineering and systems integration from a practical point of view with consideration that these issues have on equipment and systems. Specific areas may include EMC/EMI, ESD, EMR, electrical safety, radio communications, telecommunications, compliance issues related to mechanical design, energy efficiency, use of CFCs, end-of-life disposal.

Integration of equipment into installations will be addressed. These areas will be presented in the light of legislation, standards, industry guidelines, and codes of practice. Case studies with problem solving examples are used extensively in the delivery of this unit. Guest lecturers provide relevance to current practices and needs of industry.

Weeks 1 to 4 will cover a review of electromagnetic theory, antenna principles, and propagation of electromagnetic waves.

**SURVEY RESULTS AND ANALYSIS OF INDIVIDUAL QUESTIONS:**

Too few returns to be statistically analysed

**DISCUSSION AND RECOMMENDATIONS REFERRING TO UNIT OBJECTIVES AND SURVEY RESULTS:**

There were only 6 returns for this unit, due to the late surveying of the unit. This is not statistically significant. However the returned surveys are interesting. Mostly the results are 4s and 5s, with the occasional 3. This is very encouraging.

The average score for satisfaction was 4.3. Most questions have scored an average in the low 4s. The "workload was too heavy" question had an average of 3 (satisfactory)– so the answers to all questions are probably appropriate.

There were no comments.

**RECOMMENDATION(S) FOR FOLLOWING YEAR:**

The subject ran well and most students seemed very pleased with the mix of theory, practice and industry experience. The subject will probably be run again in 2006. There should be more focus on industry case studies and involvement, which is what Engineers Australia want, and what the students appear to appreciate in the last semester of their course.

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- Statistical Information from the Academic Development Unit is attached.
  - Statistical Information form the Academic Development Unit is not available due to insufficient student numbers.
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- I acknowledge that this report will be published on the Department of Electronic Engineering web site for viewing by the general public.

**LECTURER:** ..... **SIGNATURE:** ..... **DATE:** .....

**YEAR LEVEL COORDINATOR:** ..... **SIGNATURE:** ..... **DATE:** .....

**COMMENTS:**  
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**APPROVED:**

**HEAD OF DEPARTMENT:** ..... **SIGNATURE:** ..... **DATE:** .....

**COMMENTS:**  
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