



EEE360 INDIVIDUAL DESIGN PROJECT

Credits: 30

Course Description including Aims

To provide a structured individual design project to enable the student to carry out practical and/or theoretical work which underpins his/her academic studies and allows for the acquisition and demonstration of a wide range of practical skills applied to engineering designs.

Outline Syllabus

Time Allocation

18-20 weeks with a minimum of 200 hours (the equivalent of 3 to 4 afternoons per week) in the lab plus a further 100 hours background reading and report writing.

Recommended Previous Courses

All courses relevant to the particular project.

Assessment

Continuous assessment. Submission of a design specification, initial plan and risk assessment at week 4. Submission of an interim report at week 12. Submission of a project report and a 15 minute presentation at the end of the allocated period.

Recommended Books

None

Objectives

At the end of the project, successful students will be able to

1. Methodically apply engineering principles to the design of devices or systems under the constraint of well-defined specifications.
2. Meet fixed specifications through critical evaluation of methodologies available, demonstration of a prototype and assessment of the quality of the outcome.
3. Extract and critically assess information from a variety of sources.
4. Manage projects and time when working under time constraints
5. Maintain detailed log books as records of their technical planning, design and experimental work.
6. Communicate complex technical ideas effectively both orally and in writing.