



## Electronic & Electrical Engineering.

### **EEE461      INDIVIDUAL INVESTIGATIVE PROJECT**

**Credits:          30**

#### **Course Description including Aims**

To provide a structured individual 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.

#### **Outline Syllabus**

#### **Time Allocation**

18-20 weeks with a minimum of 200 hours in total (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**

The first two years of an EEE degree programme

#### **Assessment**

Continuous assessment. Submission of a specification of aims and objectives, 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 solution of problems, realization of electronic devices or systems or investigations into the properties of electronic engineering materials or devices.
2. Extract and critically assess information from a variety of sources.
3. Collect and use experimental data to evaluate physical principles and make conclusions.
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.
7. Work at the forefront of knowledge, seeking and assimilating new knowledge and ideas as required.