You will have to carry out virtual laboratory tasks and write a formal scientific lab report and perform a relevant presentation. You will carry out the laboratory tasks in week 18 and need to submit your written laboratory report in Weeks 20.

To prepare for your laboratories, you will need to refer to your previous learning about Electronics.

You should follow the lab script given to you and complete laboratory tasks, as instructed.

The laboratory report must cover *all* virtual laboratory tasks. The report should be structured clearly following a scientific approach, including sections on: aims and theory, equipment diagram, method, results, analysis, discussion and conclusion.

There should be no grammar or spelling mistakes, or mathematical errors in your report, and you must submit it when the report is due in Week 20.

**Module Learning Outcomes:**

1. Describe the composition of basic electronic components and explain the function and application of electrical and electronic circuit design
2. Define the principles of electrical and electromagnetic signals and apply electrical engineering theory to predict the practical behaviour of electrical and electronic engineering systems
3. Define, model and simplify real-world engineering problems using appropriate theoretical principles and mathematical methods