

Experiment 1

Introduction to Basic Laboratory Equipment

Introduction:

Current pandemic conditions discourage meeting in the laboratory, so we will utilize an instructional video series produced by the University of Nottingham for an introduction to the type of equipment involved. The purpose of this instructional video series is to introduce undergraduate students to basic testing and measurement techniques involved in the use of digital multimeters, power supplies, oscilloscopes, and function generators.

Procedure:

Watch each of the following tutorial videos.

Episode 1 - Multimeter <https://www.youtube.com/watch?v=18d-DQPIyE8> (9:35)

Episode 2 – Power Supply <https://www.youtube.com/watch?v=Sr89UbofNgw> (4:10)

Episode 3 – Oscilloscope <https://www.youtube.com/watch?v=dBVWv7enDsU> (8:26)

Episode 4 – Function Generator <https://www.youtube.com/watch?v=Zink6v6TXk4> (7:58)

Report:

Write a *brief* summary of each video, in your own words, to submit as this week's lab report. Your report must be typed with a word processor, and must use proper sentence construction, spelling, grammar, and format. A sloppy report is no better than no report at all, and will be evaluated accordingly.

Submit a PDF version of the document by the beginning of next week's scheduled lab period