**Andrew Hughes, C21084946**

**Monday Group**

31/10/2022, Week 5/6

**Aims & objectives**

The aim of this experiment will be to

**Risk assessment**

|  |  |
| --- | --- |
| Hazards | Control measures |
| High d.c. magnetic fields will be created within the experiment. | Keep man-made devices etc. phone. A safe distance away from the coils. (This will be over 25cm). |
| High currents are used to create the high magnetic fields. | Do not change the electricals leads when the equipment is in state where it is or can deliver high currents. |

**Apparatus**

For this experiment there are a lot of different apparatus that will be used for the experiment. Below you will be able to find a noted photo of all the apparatus.

**Week 1 experiment**

Graphical user interface

Description automatically generatedIn week 1 we must set up the CASSY program for the first time. We do this by first opening CASSY up on the computer. We then select COM 3 and CASSY from om the options shown below.

*Figure 2 (options of different settings for CASSY lab)*

After I choose this setting, I then advance to click on to the CASSY tab at the top. You can also see this feature in the photo as it is one of the options on the top bar. After clicking that tab it bring us to this screen.

Graphical user interface

Description automatically generated

Figure 3 (Set up of the program step 3)

Graphical user interface, application, Word

Description automatically generatedAfter this you select load examples. You can find this at the bottom of the option next to help. This then leads to a screen appearing with a lot of different options. Out of all the options I double click physics then solid-state physics the next step is to choose Hysteresis of a transformer core out of all the options then scroll down and select load example (with Power CASSY).