**L-5 Checklist for Physics 104**

On each table check the presence of

A spectroscope

Hydrogen discharge tube with power supply

Black cloth/fabric

In the lab room, check the presence of

Power cables

On each table, check for functionality

The hydrogen discharge tube turns ON.

The grating on the spectroscope does not have large cracks or scratches that could hinder any diffraction

The diffraction grating can be rotated

The collimator slit width can be adjusted

The focal length of the telescope can be adjusted

The telescope can be rotated from left to right and vice-versa with ease.

The markings on the angle Vernier calipers are intact and can be viewed clearly through the magnifying lenses provided.

The magnifying lenses can be moved with ease.

Switch on the hydrogen tube, place the spectroscope right in front and test the following:

When looking through the telescope, the crosshairs are clear and not broken.

The telescope is capable of producing a sharp image of the illuminated collimator slit.

The first order lines can be observed when the telescope is rotated.

The position of the telescope can be changed in a fine manner by rotating the nut/screw at the bottom of the telescope.

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