Optical Spectrometer

Material needed:

Case of spectrometer (3d printed)

CD

Smart phone

Experimental procedure

1. Download SpectraUPB apps
2. Measure spectrum from different light source (LED, Fluorescent lamp, Light bulb).

Discussion

1. Why does the spectrometer case have a slope surface?
2. How does the result change if using DVD as grating?
3. Compare the spectrum from different light source and explain the reason.