**General Aim**
To study the spectral dependence of the incident light and the effect of parallel and series wiring of few cells.

**Method**
Optical Filters to study dependence of I-V of a solar cell. Also, connecting two cells in series and in parallel.

**Learning Objectives (ILOs)**
- Describe the construction and operation of the PV cell.
- Enumerates the different factors that may affect the operation of the PV cell.

**Theoretical Background/Context**
Solar cells are generally made from semiconducting materials, which are sensitive to structural and environmental factors, e.g., the light intensity, which depends on the power delivered by the solar cell.

**Principle of Work**
Different optical filters can be attached to the opening of the lamp box to study the effect dependence of the I-V characteristics of a solar cell. In the second part, two solar cells can be connected in series or in parallel, to study the effect of the connection method and I-V characteristics and the cell parameters.