

Seth RL Saharia Government PG College, Kaladera

Physics Lab

Laboratory Infrastructure for Department of Physics:

The department has one well equipped laboratory along with spectroscopy lab (more commonly known as dark room), faculty room and a store. The laboratory has almost all the experimental setups prescribed in the syllabus of B.Sc. Pass course by the affiliating university.

The few of them are listed below:-

- Determination of Planck's constant by solar cell
 - Determination of Planck's constant by photo cell
 - Four probe method for determination of band gap of semiconductor
 - Spectrometers with grating and prism for studying diffraction and dispersion
 - Travelling microscopes
 - Newton's ring setup
 - Polarimeters for studying specific rotation
 - Fresnel's bi-prism setup for studying interference
 - Transmission lines (RC and LC)
 - Gm counter setup along with radioactive sources
 - LCR circuit setup, conversion setups,
 - Transistors, amplifiers, diodes, rectifiers with filters
 - Carey foster's bridge,
 - Bending of beam, Maxwell needle, Searle's apparatus
 - Coupled oscillator, compound pendulum
 - Lee's method to study the thermal conductivity
- An informal library is setup is started last year in the department in which faculty members issue their own books to students (one/two books per student) for a year.

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