Optics News

Facilities for Optics at Regional Engineering College, Rourkela

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Regional Engineering College, Rourkela, offers a rich and varied spectrum of facilities in optics and related fields for teaching, research, fabrication, testing and computation; but they are scattered in various Departments of the College. Given below is a brief list of the various facilities, along with the names of the concerned Departments. All the equipments mentioned below are available with the accessories.

(1) *Post-Graduate Teaching* : M.Sc. (Physics) course is offered by the Department of Physics, which has a well-equipped Optics Laboratory for the M.Sc. students.

(2) *X-Ray Scattering* (Deptt. of Physics) :

Facilities are available for large angle as well as small angle scattering of X-rays. Present research activities include theoretical as well as experimental studies in crystallography and Macromolecular Physics. Some of the available equipments are : (1) Kratky Camera of latest design (2) Mohl Microphotometer (3) Three X-Ray units (4) G. M. Counter (5) Weissenberg Camera (6) Rotation Powder Camera (7) Matchlett A-2L Diffraction tube.

An X-Ray Unit is available also in the Deptt. of Metallurgy, which is being used for studies in crystallography and Materials Science.

(3) *I. R. and U. V. Spectroscopy* (Dept. of Chemistry) : Research in Molecular Spectroscopy is being carried out at present with the help of (1) Infrared Spectrophotometer (Model-Unicam SP

200) (2) Visible and Ultra-violet Spectrophotometer (Model-Unicam SP 500) (3) Spectrophotometer (Model-Elico).

(4) *Holography and Stress Analysis* (Dept. of Mechanical Engineering) : The available equipments are (1) Transmission Light Lens - Field Polariscope (2) "Spectralase" Holographic Kit. Several sophisticated equipments, e.g., Diffusion Polariscope, will be acquired shortly.

(5) *Polarimetry* (Dept. of Chemical Engineering) : A sophisticated Polarimeter is available in the Department for polarimetric analysis.

(6) *Computational Facilities*: These include (1) Microcomputer (Dept. of Physics) (2) Minicomputer (Dept. of Electrical Engineering) (3) A fourth generation fast computer VAX-11/780 (Regional Computer Centre).

(7) *Fabrication Facilities* : A well-equipped Workshop is available, in addition to the laboratory facilities available in various Departments.

(8) *Library Facilities* : The College has a well stocked modern Library with more than 26,000 books and it subscribes more than 245 journals from India and abroad. The library has facilities for Xerography, Microfilm Reading and Inter Library, Loans.

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