

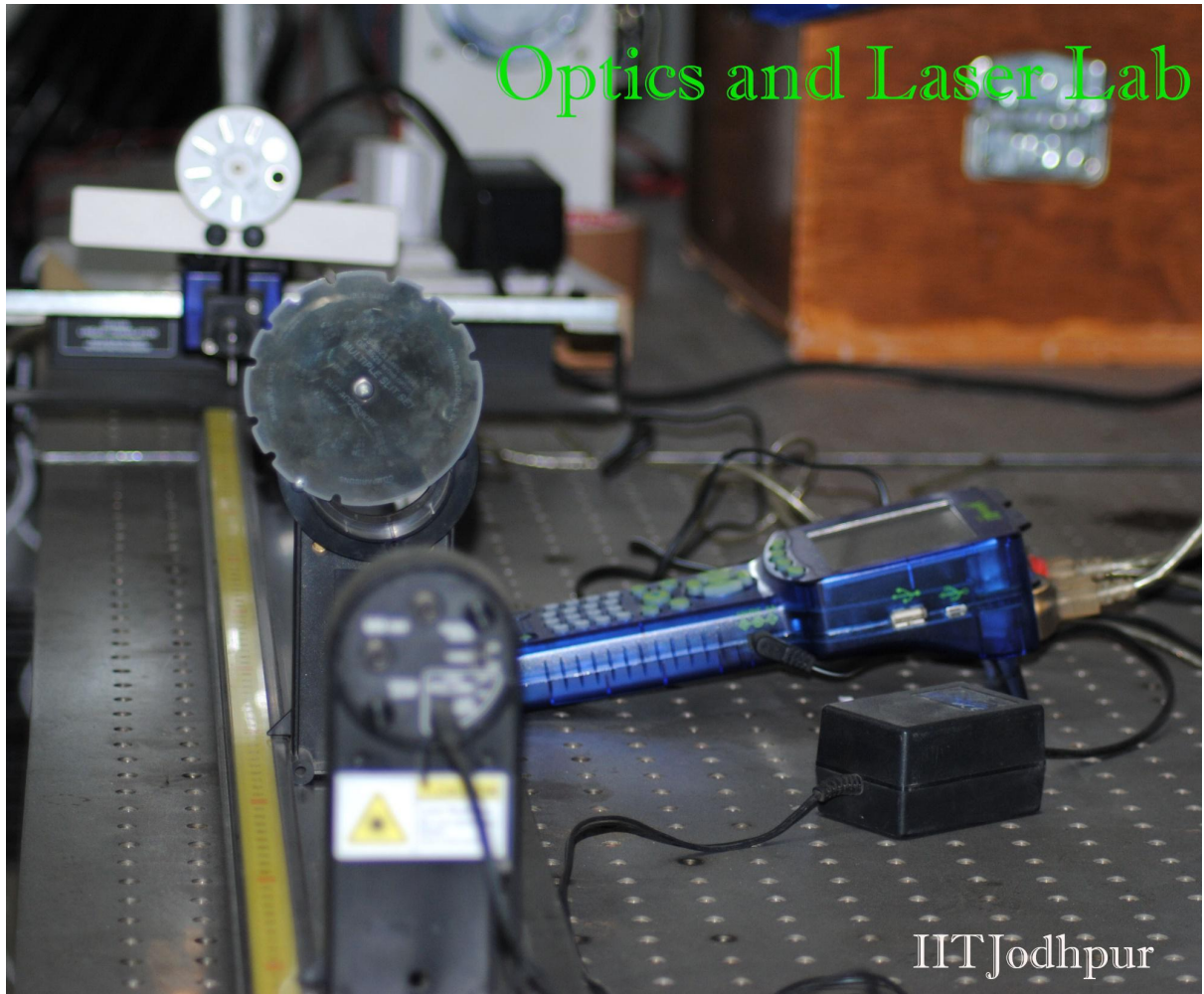
Optics and Laser Laboratory

Optics and Lasers are playing highly significant role in the growth of technology for a wide range of applications. These applications may range from house hold things, medical, broadband communication, photonics and to advanced space and defence systems. Development of human resources with skills in the area of optics and lasers is very important requirement both in the country as well as internationally. In order to work towards this objective, Department of Physics at IIT Jodhpur is conducting a laboratory course on Optics and Lasers for the students of postgraduate program.

Currently, the department is offering ten experiments in the second semester of the M.Sc. program. These experiments provide the conceptual understanding of geometrical & wave optics, and Lasers. The well-documented laboratory manual will be given to the students to acquire preparatory knowledge for performing the laboratory experiments. Teaching Assistants will monitor and help the students under faculty supervision for the successful completion of experiments. Students will gain handling and performance skills along with the understanding of the science behind the experiments. A list of experiments being currently offered in the Optics and Laser Laboratory includes:

S. No.	Name of Experiment
1	Single and multiple slit Diffraction
2	Goniometer based apparatus for Diffraction
3	Newton's rings experiment
4	Dispersive Prism experiment
5	Polarization by Wave Plates
6	Michelson Interferometer
7	Fabry Perot Interferometer
8	Mach-Zehnder Interferometer
9	Optical Fiber Characterisation
10	Characteristic study of Diode Laser

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