

## Analytical and Optical Instrumentation Laboratory



<b>Laboratory Name</b>	<b>Analytical and Optical Instrumentation Laboratory</b>
<b>Laboratory Incharge</b>	<b>Prof. J. P. Gawande</b>
<b>Instruments &amp; Equipments</b>	<p><b>Major Optical Instruments:</b> Optical test bench with mounts, Monochromator, Optical power meter with 3 photo detectors, Optical fiber test bench, Optical time domain reflectometer (OTDR), Different optical sources, Optical spectrum through grating kit, He-Ne lasers, Nd-YAG Laser, Argon laser</p> <p><b>Major Analytical Instruments:</b> Spectrophotometer, Spectrofluorophotometer, Flame photometer, Photo colorimeter, Optical densitometer</p>
<b>Utilization of Laboratory</b>	<p><b>Semester I: 10 hrs/week</b></p> <p>T.E. - Analytical Instrumentation (8hrs/week)</p> <p>M.E.- Analytical Instrumentation (2hrs/week)</p>

### List of projects completed:

1. Optical pyrometer
2. Multi-wavelength optical fiber sensor
3. Goniometer
4. Ozonator for water disinfection
5. Design and development of digital colorimeter using CCD array
6. Data acquisition set-up for light scattering by a turbid media
7. Polarimeter