

2002-2003	<ol style="list-style-type: none"> <li>1. Development of baby incubator system</li> <li>2. Development of teaching aids for biomedical teachers</li> <li>3. Development of anti reflection coating</li> <li>4. Development of DSP trainer software</li> <li>5. Development of pulse oxymeter module for L&amp;T</li> <li>6. Development of software in `C' to display biopotential signal</li> <li>7. Development of auto off timer</li> <li>8. Development of mc based digital line frequency indicator</li> <li>9. Development of library automation project for CIFE</li> <li>10. Development of double beam digital colorimeter</li> </ol>
2003-2004	<ol style="list-style-type: none"> <li>1. Design &amp; development of ignition system for xenon lamp – UGC project</li> <li>2. Development of stimulus response machine for Department of Occupational Therapy of KEM Hospital</li> <li>3. Development of PC based system for testing respiratory filters</li> <li>4. Development of mc based temperature controller</li> <li>5. Development of password based electronic lock</li> <li>6. Development of frequency shift keying using mc</li> </ol>
2004-2005	<ol style="list-style-type: none"> <li>1. Fabrication of five mc kits</li> <li>2. Development of ultrasonic range meter</li> <li>3. Development of lab experiment using DSP processor</li> <li>4. Development of 16 interfaces (H/W / S/W) for conducting mc expts.</li> <li>5. Development of Wollaston Prism - technology transfer to M/s. Feedback India</li> <li>6. Development of colorimeter using LED – ready for technology transfer</li> <li>7. Development of software for data acquisition system</li> <li>8. Development of continuous passive machine for handicapped foot</li> <li>9. Development of alertness monitoring system</li> <li>10. Development of mc based auto sample dispenser</li> <li>11. Development of Digital tide gauge displayed at International conference</li> </ol>
2005-2006	<ol style="list-style-type: none"> <li>1. Software system for data acquisition system</li> <li>2. Upgradation of particle size analyzer</li> <li>3. Development of fibre length measuring instrument</li> <li>4. Design &amp; development of thermal analysis system</li> <li>5. Design of furnace for superconductivity experiment</li> <li>6. Design &amp; development of mc based system for speed control of DC motor</li> <li>7. Development of ac/dc current/voltage sources for calibration lab. – project for industries.</li> <li>8. Development of lung function machine – ready for technology transfer</li> <li>9. Development of new type of polarizing prisms – ready for technology transfer</li> </ol>

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| 2006-2007 | 1. | Test System for Testing Total Inward Leakage of Safety Masks – technology transfer to M/s. Vishvesvara Enterprises  |
| 2007-2008 | 1. | Development of characterization technique for solar sensors using UV-Visible spectrophotometer  |
| 2008-2009 | 1. | A low cost Microcontroller Based LED Sourced Colorimeter using of the shelf electronic components and user friendly software, has been designed, developed & fabricated for UG & PG science laboratories.   |
| 2009-2010 | 1  | <p>P.G. Students of Department of Physics, University of Mumbai of Helios Astronomy Group, Mumbai studied the meteor showers that occurred on 12th – 13th November 2009, at Raigad Fort, Maharashtra. W.R.I.C. designed and fabricated a concave grating monochromator and other optical accessories for this work. The same set up was again used by these students on 12th – 13th December 2009 to study the spectral radiations of meteor showers at Maholi Fort, Asangaon. The data collected by the students was good and useful to the students for their proposed studies.</p> <p>2. Design and development of concave grating monochromator which can be used to measure on-line spectra of astronomical object as well as the absorption / transmission spectra. This monochromator design can be modified for the development of an on-line uv-visible spectrophotometer using optical fibre.</p> <p>3.. Design and development of instrumental set-up, which can measure the dielectric constant of solid. This setup was designed and developed for the Department of Physics, University of Mumbai during this period.</p> <p>4. Design and development of an experimental set up for characterization of Solar Cell. The set up will be used by U.G. &amp; P.G. students of Mumbai University and UM-DAE-CBS.</p> |
| 2010-2011 | 1. | Design, developed, fabricated a low cost teaching aid “Integrated apparatus for education of solar cell” in collaboration with IIT-Bombay”  |
| 2011-2012 | 1. | “Intergrated apparatus for education of solar cell (Solar Simulator)” applied for patent . Its Patent application no. is 3719/MUM/2011. A total number of 40 such instruments were fabricated and delivered to IIT, Bombay and which were distributed to 35 engineering colleges scattered across the country. As a part of its: TEACH 1000 Teachers” programme, IITB conducted a 10-days ISEAT-IITB live 10 days workshop from 12th -22nd December 2011 on ” Solar Photovoltaics: Fundamentals, Technologies and Applications” under MNRE-NCPRE-IITB Programme.  |
| 2012-2013 | 1. | Design and developed “LED based solar cell spectral response meter (Patent application no. 2869/MUM/2012)” in collaboration with IITB.  |
|           | 2. | Design and developed “ Drift free LED based colorimeter(Patent application no. 1822/MUM/2012)”  |