

### Sponsored Projects (total 14)

| S No. | Project Title  | Funding Agency  | Duration    | Amount (Rs in Lakhs)                            | Principal Investigator (PI) or (CI)          |
|-------|--|---|-------------|---|--|
| 1.    | Indigenous development of Technology for differentiating Synthetic Lab grown Diamond from Natural Diamond                                      | UAY, MHRD   | 2016-2019   | 100.00  | PI   |
| 2.    | Design and implementation of a high speed wavefront sensor of light beam   | DIETY, Delhi  | 2011-2014   | 61.14   | CI   |
| 3.    | Studies on laser-induced breakdown in liquid and solid-liquid interface  | DST, Delhi  | (2010-2014) | 31.80   | CI   |
| 4.    | Studies on Rhodium coated Mirror deposited by Pulsed Laser Deposition Technique  | BRFST-NFP, IPR, Gandhinagar                                     | 2010-2013   | 29.46   | PI   |
| 5.    | Development of high quality SiC and Diamond thin films using hot wire chemical vapour deposition technique for plasma diagnostics applications | BRFST-NFP, IPR, Gandhinagar                                     | 2010-2013   | 35.14   | CI   |
| 6.    | Fabrication of thin films and ordered arrays of AlInN composites for optoelectronics application via pulsed Laser ablation Techniques          | DRDO, Delhi   | 2009-2012   | 34.00   | PI   |
| 7.    | Studies on ion dynamics in Laser Produced Plasma and its Effect on PLD Thin Films using conventional and novel diagnostics                     | DST, Delhi  | (2009-2012) | 42.00   | PI   |
| 8.    | Fabrication and sub micron tailoring of materials for Photonics applications with Ultrafast lasers.<br>(a multi institutional Project)         | Office of the Principal Scientific Advisor to the Govt of India | (2008-2012) | 370.00 (IIT Guwahati component ~ <b>50.00</b> ) | PI from IIT Guwahati                         |
| 9.    | Pulsed Laser Deposition of Thin Films and Characterisation for Application for various Diagnostics for Fusion Plasma                           | NFP-IPR, Gandhinagar, India                                     | (2007-2010) | 22.00   | PI   |
| 10.   | Development of lecture notes on 'Optoelectronics'  | QIP, AICTE, India   | Three years | 0.25  | PI   |
| 11.   | Development of Web based course on Engg physics I: Theory  | NPTEL, MHRD, India  | 2003-2007   | Rs 5.00 Lakhs                                   | Collaboration with two other faculty members |
| 12.   | Development of Web based course on Engg physics II: Experiment   | NPTEL, MHRD, India  | 2003-2007   | Rs 5.00 Lakhs                                   | Collaboration with two other faculty members |
| 13.   | Development of New Technique of Nano writing using Pulsed high power   | MHRD, India   | (2001-2006) | Rs 6.50 Lakhs                                   | PI   |

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|-----|---|------------------------|-------------|---------------|----|
|     | Laser Interferometry  |                        |             |               |    |
| 14. | Optical measurement of molecular and atomic density in spark and flame like media | CSIR, New Delhi, India | (1998-2002) | Rs 5.75 Lakhs | PI |