

Thesis supervised and under progress

A. PhD

S No.	Title of the thesis/research Area	Degree awarded	Name of the student
1.	Multiple Beam Interferometry and its applications	2006	A S Patra
2.	Novel configuration for atomic beam and laser beam for one and two dimensional micro-nano lithography.	2006	Kamlesh Alti
3.	Pulsed laser deposition and characterization of AlN, TiO ₂ , and Zn _{1-x} Mg _x O (0≤x≤0.7) semiconductor thin films	2012	Gurav Shukla
4.	Laser induced plasma at liquid/solid-liquid interface and implication on nucleation of nanoparticles	2012	Arpita Nath
5.	Studies on Pulsed Laser Deposited Ruby and Barium Titanate Thin Films for Tunable Optical Delay and Temperature Sensing Applications	2014	Satchi Kumari
6.	Studies on pulsed laser deposited Mo, W and Rh thin films for First Mirror application	2014	Abu Talat Tahil Mostako
7.	Pulsed Laser Deposition and Characterization of Diamond-like Carbon and Graphitic Thin Films and Graphene	2017	Indrarjeet Kumar
8.	Studies on Linear and non linear Optical Properties of Pulsed Laser Deposited Si, SiO _x and SiC thin films	2018	Partha Pratim Dey
9.	Studies on Third Order Optical Nonlinearity, Photoluminescence and Random Lasing in Pulsed Laser Deposited Zn _{1-x} Al _x O (0≤x≤0.10) and Zn _{1-x} Ti _x O (0≤x≤0.05) Thin Films	Submitted in 2018	Gyan Prakash Bharti
10.	Surface Plasmon studies on semitransparent metallic thin films via PLD	Since July 2012	Rahul kesarwani
11.	Laser induced breakdown in liquid	Dec 2012	Prahlad B (Jointly with Dr Ashwini K Sharma
12.	Laser Induced break down spectroscopy	July 2013	Ishita Mal
13.	Studies on Laser Induced Micromachining	July 2014	Sansaram Sunderlal (Mech Engg), jointly with Dr S N Joshi)
14.	Effect of Nano particles injection on NLO properties of perovskite thin films	Since Dec 2014	Sasmita Behera
15.	In-situ surface profiling during the growth of the thin film via PLD using grating array based zonal wavefront sensor	Since July 2015	Nagendra Kumar (Jointly with Dr B R Boruah

B. M Sc (all single handedly).

S No.	Title of the thesis	Degree awarded	Name of the student
1.	Effect of Phase mismatching in the generation of complicated arrays by multiple beam interferometry.	2002	Ms Succismita
2.	Studies on Relaxation Oscillations of a Diode Laser.	2003	Shalini Sharma
3.	Laser Produced Shock waves in Liquid and Development of Diagnostics for Pulsed Plasma System.	2003	Tina
4.	Bifurcation and Chaos in LRVD circuit using ordinary diode and Laser Diode	2004	Kallol Pradhan
5.	Laser Produced Breakdown in Liquid	2005	Gautam Sharma
6.	Design and Studies on wireless optical communication system	2006	Bhasker Jyoti Krishantreya
7.	Studies on the Upper Laser Level lifetime & Cavity lifetime in a semiconductor diode laser	2006	Mahuwa Bhattacharjee
8.	Linear optical logic Gates	2007	Sakinala Prabhakar
9.	Synthesis and characterization of nano particles of TiO ₂ via laser ablation of titania in liquid environment	2009	Suvra Santa Laha
10.	Pulsed laser deposition of Mirror like high quality Thin Films of Heavy Metals for Tokamak application	2009	Rahangdale Hitesh Vijaykumar
11.	Identification of safe and hazardous plastics by laser induced breakdown spectroscopy	2010	Alok Kumar Singh
12.	Studies on Slowing Down of Light via Two Beam Coupling in Photorefractive Crystal	2011	Ravi Kiran saripalli
13.	Studies on Non linear optical properties of pulsed laser deposited thin films of BaTiO ₃	2012	Sarmistha Das
14.	Effect of background gas pressure on the electron temperature and density in Laser induced plasma of Ruby using planer Langmuir probe	2012	Arpita Paul
15.	Studies on Semi Transparent thin films via Pulsed Laser Deposition Technique	2013	Raja Bonia
16.	Studies on laser induced breakdown in liquid via imaging technique	2014	Nawaz Sarif Mallick
17.	Development of single step Z scan technique for the measurement of optical non linearity in thin films	2014	Bikash Mandal
18.	Non Linear optical Properties of TiO ₂ doped ZnO film via pulsed laser deposition technique	2015	Amit Kumar Patel
19.	Effect of Metallic Nanoparticles on the Properties of BaTiO ₃ Thin Films	2017	Ankit Kumar
20.	Effect of metallic nano particles on non linear optical properties of ZnO thin film	2017	Arindam Biswas
21.	LIBS and Raman Investigation of printing paper and printer ink.	2017	Dinesh Subba

22.	Study of the effect of low temperature on the Raman Spectra of Carbon Nanotubes	2017	Lalnunpuia Khiangte
23.	Linear and Non Linear Optical & Structural characterization of thin films of SrTiO ₃ Fabricated by Pulsed Laser Deposition Technique	2018	Amandeep Kaur
24.	Laser Induced Breakdown Spectroscopy (LIBS) of Brass sample in Air	2018	Ashna Mittal

C. B Tech

S No.	Title of the project	Degree awarded	Name of the student
1.	Development of a prototype line of sight Wireless Optical Communication System	2011	Adarsh Shankar Prasad
2.	Fabrication and characterization of micro lens and micro lensed array	2012	Sunil V M
3.	Non Linear damping and chaotic behavior of some of the circuits	2013	Pawan Kumar
4.	Effect of doping on to the properties of Lithium Niobate thin film via PLD lithium niobate	2013	Ankit Rathi
5.	Effect of temperature on photoluminescence spectrum of pulse laser deposited Ruby thin film	2016	C R Rakesh
6.	Characterization and Anti-Bacterial activity of Cu and Ag nanoparticle treated Silk	2016	Priya Meena
7.	Temporal Evolution of Laser produced plasma via Langmuir probe	2018	Rajnandan Choudhury Das
8.	Synthesis and Characterization of Silicon Nano Particles using Pulsed Laser Ablation	2018	Parveen Kumar