

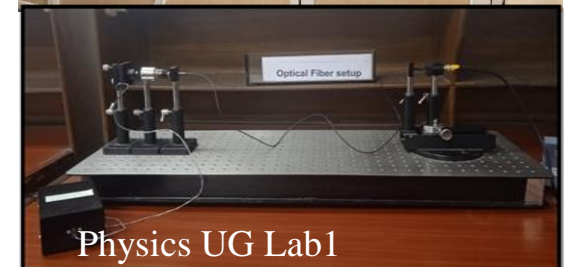
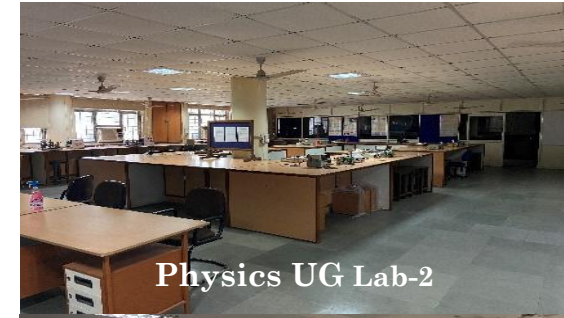
Lab details with Photographs

Undergraduate Labs

1. Physics UG laboratory-I
2. Physics UG laboratory-II
3. Physics UG laboratory-III
4. Optics Laboratory
5. Fiber Optics & Optical Communication Laboratory
6. Microwave Engineering Laboratory
7. Condensed Matter Physics Laboratory
8. Computational Laboratory
9. EMT, Antenna and propagation Laboratory
10. Communication System Laboratory
11. Microprocessor & Interfacing Laboratory
12. Digital Electronics Laboratory
13. Alternate Energy Storage & Conversion Devices Laboratory
14. FPGA Design Laboratory
15. Mobile & Satellite Communication Laboratory

Postgraduate Labs

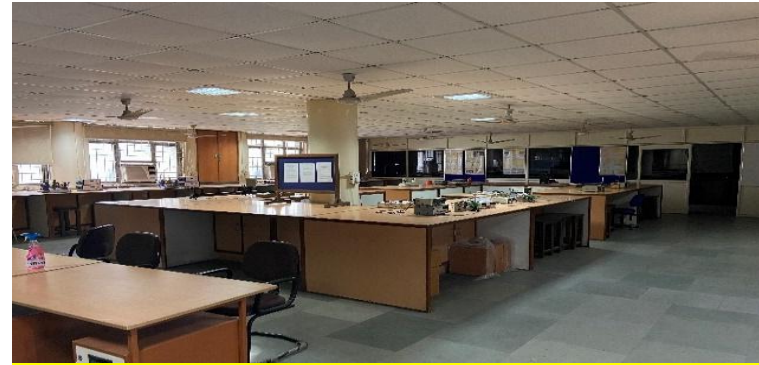
1. Physics Lab-I
2. Physics Lab- II
3. Advanced Physics Lab-I
4. Advanced Physics Lab-II



Lab details with Photographs



Physics UG Laboratory-II



Physics UG Laboratory-I



Fiber Optics and Optical Communication Laboratory



CMP Laboratory



EMT, Antenna and Propagation Laboratory



Alternate Energy Storage & Conversion Devices Laboratory



Microprocessors and Interfacing Laboratory



Computational Laboratory



Optics Laboratory

Lab details with Photographs



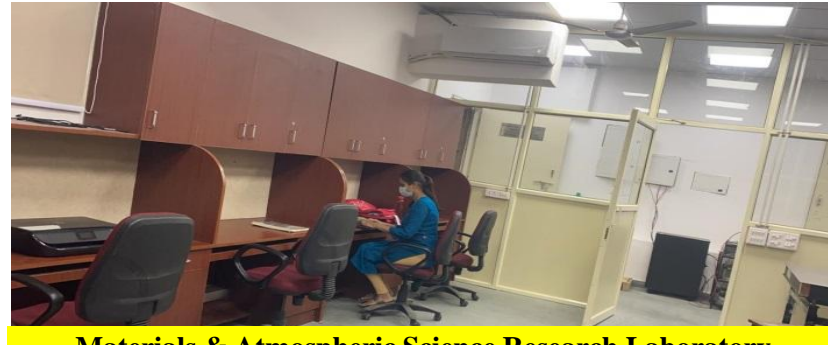
Research /Project Laboratories

S. No.	Name of Laboratory	Funded By
1	TIFAC- Centre of Relevance and Excellence in Fiber Optics and Optical Communication	Mission Reach, Vision 2020, Govt. of India
2	Laser and Spectroscopy Laboratory	SERB-DST, DST-FIST, DAE-BRNS, DTU
3	Luminescent Materials Research Laboratory	DST, DAE-BRNS, DTU
4	Microelectronics Research Laboratory	DST, DTU, SERB
5	Nano-Fabrication Laboratory	DST, DTU
6	Lithium Ion Battery Technology Research Laboratory	DTU, DTU-IRD, DST/FIST
7	Plasma and Nano Simulation Laboratory	DST/DTU
8	Computational Functional Material Research Laboratory	DST-UGC, DTU
9	Nanomaterial Research Laboratory	DTU, SERB
10	Material and Atmospheric Science Research Laboratory	DTU, TEQIP, DST
11	Terahertz Radiation Emission & Advance Simulation Laboratory	DTU
12	Materials Research Laboratory	DTU-IRD, DTU

Research Laboratories in the Department



Nano Materials Research Laboratory



Materials & Atmospheric Science Research Laboratory



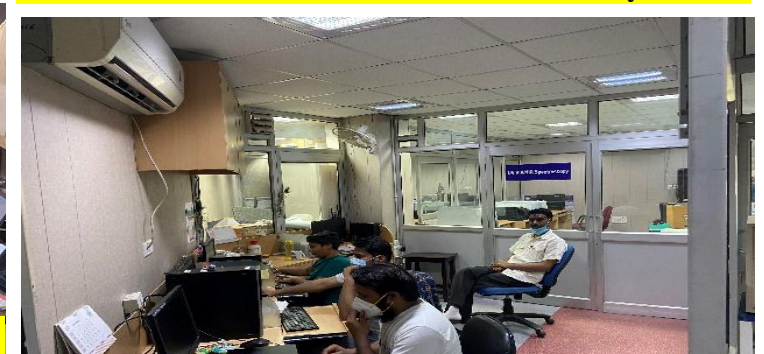
Plasma and Nano Simulation Laboratory



LMRL Laboratory



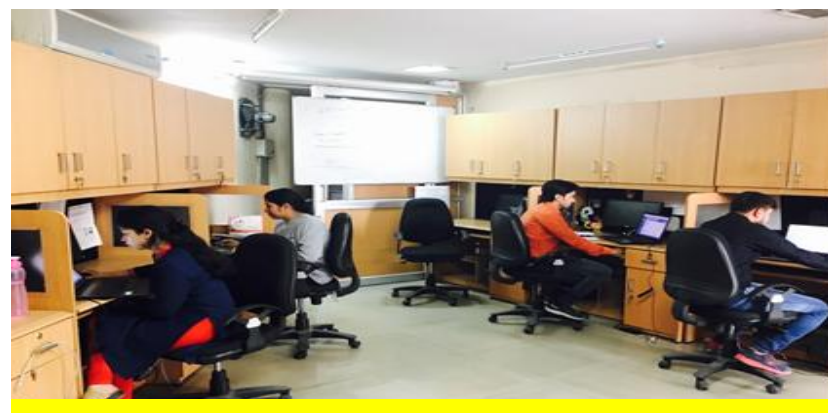
Atomic, Molecular & Terahertz Simulation Laboratory



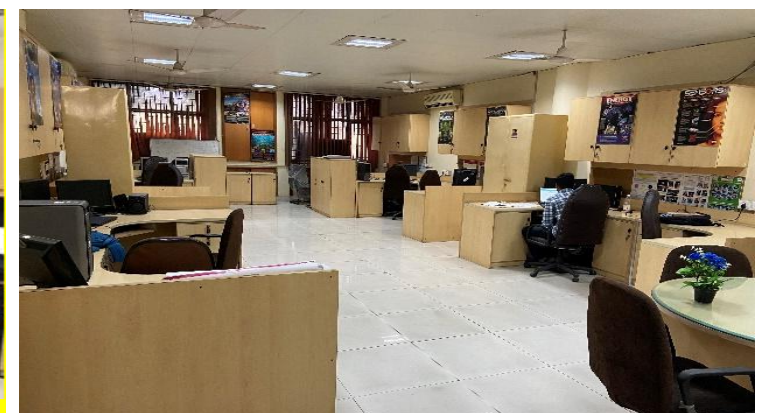
Laser Spectroscopy Laboratory



LIBT Laboratory



Microelectronics Research Laboratory

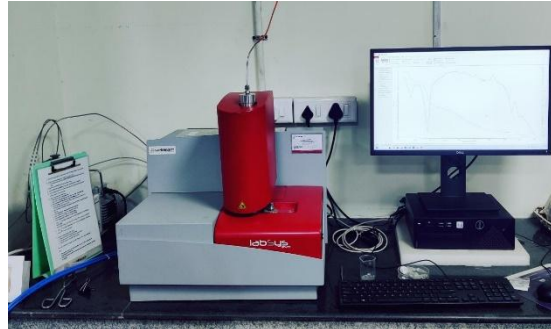


Advanced Simulation Laboratory

Major Equipments in the Department



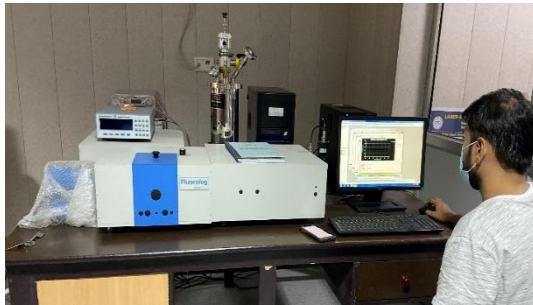
Glove Box Workstation



Thermogravimetric Analyzer



Li/Na-Ion Battery Testing Facilities



PL Spectrophotometer



Lyophilizer



Aethalometer



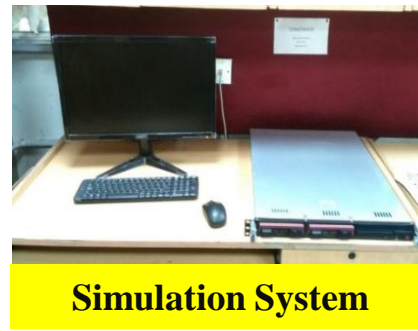
CVD System



High Pressure Reactor



TCSPC System



Simulation System



Horizontal & Vertical Furnace

Emergency Services Available



First Aid Kit



DTU Health Centre



Fire Extinguisher



DTU Ambulance

List of Emergency Contacts in Laboratories

S. No.	Name	Contact No.
1	Prof. Vinod Singh (HOD Applied Physics)	9811701225
2	Dr. Raghvendra Gautam (Security Officer)	9560192901
3	Dr. Rajesh Birok (OIC, Health Centre)	8586039007
4	Dr. Amrish K. Panwar (OIC-1 CMP Laboratory)	9891778307
5	Dr. M. S. Mehata (OIC-2 CMP Laboratory)	9953142553
6	Mr. Suresh Kumar (Jr. Technical Assistant)	9999886454

Software details

S. No.	Tools	No. of Licenses
1.	Matlab	50
2.	RP Fiber Power V4	1
3.	COMSOL Multiphysics	1
4.	Optiwave Simulation package	1
5.	RSoft Simulation package	1
6.	Photon Design Simulation package	1
7.	RSOFT CAD FIMSIM	1

S. No.	Tools	No. of Licenses
8.	VSIM 7.2	1
9.	Virtual NanoLab Quantum Wise	1
10.	MATHEMATICA	1
11.	Silvaco TCAD	1
12.	Genius Visual TCAD	1
13.	Fimmwave v 6.1.1	1
14.	Quantum Wise Atomistic Simulator	1

**Equipment's/Tools Details in Applied Physics

