

Indian Institute of Space Science and Technology

Thiruvananthapuram



Consolidated list of
Instructional and Research labs

Department of Aerospace Engineering

1. Advanced Propulsion and Laser Diagnostics (APLD) Facility
2. Aerodynamics Lab
3. Aerostructures Lab
4. CADD Lab
5. Computational Heat Transfer Lab
6. Computational Lab
7. Cryogenic Lab
8. Engineering Drawing Hall
9. Engineering Workshop
10. Experimental Composite Micro-mechanical Lab and Raman Spectroscopy Facility
11. Flame Diagnostics Lab
12. Flight Mechanics Lab
13. Fluid Mechanics Lab
14. Heat Transfer Lab
15. Heat Treatment and Metallography Lab
16. High Speed Flow Lab
17. Laser Absorption Spectroscopy Lab
18. Manufacturing Processes Lab
19. Mechanisms and Machine Elements Lab
20. Metrology and Computer Aided Inspection Lab
21. Micro-PIV Lab
22. Robotics and Dynamics Lab
23. Strength of Materials Lab
24. Structural Dynamics and Vibration Lab
25. Structural Health Monitoring (SHM) Lab
26. Thermal and Fluid Engineering Calibration Facility
27. Thermal Engineering and Propulsion Lab

Department of Avionics

1. Advanced Microwave Lab
2. Advanced Wireless Communication Research Lab
3. Analog Electronics Circuits Lab
4. Anechoic Chamber Facility
5. ASIC Characterization Lab
6. ASIC Design Lab
7. Bio Sensor Lab
8. ChemiSens Lab
9. Communication Networks Lab
10. Control and Guidance Lab
11. Digital Communication System Lab
12. Digital Electronics and Microprocessor Lab
13. Digital Signal processing Lab
14. DSP VLSI Research Lab
15. ECAD Lab
16. Image Processing and Computer Vision Lab
17. Instrumentation and Measurement Lab
18. MEMS and NanoFAB Lab
19. Navigation systems and Sensors Lab
20. NEMS & Microelectronics characterization & NEMS Sensor Systems Lab
21. NEMS and Sensor Systems Lab
22. Operational Ground Station
23. Opto Electronics and Photonics Lab
24. Power Electronics in Electrical Distribution System Lab (PEDS)
25. Power Electronics PG Lab
26. Power Electronics Research Lab
27. Power Electronics UG Lab
28. RF and Microwave UG Lab
29. Soldering & Wiring Lab

30. Small-spacecraft Systems and Payload Centre (SSPACE) Lab
31. Systems & Networking Lab
32. Virtual Reality Lab
33. VLSI & Microsystems Design Lab

Department of Chemistry

1. Inorganic Chemistry Lab
2. General Chemistry Lab
3. Material Characterization Lab
4. Nanoscience Lab
5. OLED and Battery Fabrication Lab
6. Organic Chemistry Lab
7. Physical Chemistry Lab
8. Polymer Processing Lab
9. Space Biology Lab

Department of Earth and Space Sciences

1. IIST Ponmudi Climate Observatory
2. Astronomy Observatory Lab
3. Atmospheric Science Lab
4. Geology Lab
5. Remote Sensing Lab

Department of Humanities and Social Sciences

1. Audio Visual Lab
2. Language Lab

Department of Mathematics

1. Machine Learning and Computing Lab
2. Programming Lab

Department of Physics

1. Applied & Adaptive Optics Lab
 2. Atomic and Molecular Physics Lab
 3. Computational Physics Lab
 4. Electric Propulsion Diagnostics Lab (EPDL)
 5. Electronic Materials and Devices (EMERALD) Lab
 6. General Physics Lab
 7. Modern Physics Lab
 8. Multidisciplinary Computing Centre (MCC) Lab
 9. Optics Lab
 10. Quantum Optical Technology Lab
 11. Quantum Technology Lab I
 12. Quantum Technology Lab II
 13. Solid State Physics Lab
 14. Space Technology Innovation and Characterisation Lab
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