



JANSONS INSTITUTE OF TECHNOLOGY

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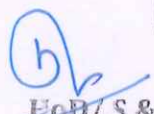
Karumathampatti, Coimbatore – 641 659.

DEPARTMENT OF SCIENCE & HUMANITIES

BS3171 - PHYSICS & CHEMISTRY LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
PHYSICS LABORATORY		
1.	Ultrasonic interferometer apparatus with high frequency wave generator, cell, micrometer, PZ crystal, water or other liquids	Sem I
2.	Diode laser (green or red), fiber optic cable, movable arrangement with a screen for measuring spot size (zig), meter scale, stand	Sem I
3.	Diode laser (green or red), iron stand, compact disc, 1m-wooden scale, screen, stand	Sem I
4.	He-Ne/Diode laser (red), Green diode laser, Grating, Screen, Iron stand (3 Nos), 1m wooden scale, thread.	Sem I
5.	Post office box, 5V power supply, thermometer, galvanometer, semiconductor (thermistor), variable temperature bath set-up (oil, temperature controller, vessel, hot plate.	Sem I
6.	Non-uniform bending: 1 metre wooden scale, two-knife edges, travelling microscope, weight hanger with slotted weights, screw gauge, Vernier calliper, pin	Sem I
7.	45 inclined glass plate set-up, two optically plane glass plates, sodium vapour lamp, travelling microscope, thin wire/thin strip of paper	Sem I
8.	Simple harmonic oscillations of cantilever: 1 metre wooden scale, Gclamp, weight hanger with slotted weights, Vernier calliper, Screw gauge, stop clock	Sem I
9.	Torsional Pendulum, stop clock, suspension metallic wire: two different thickness, two identical cylindrical mass, screw gauge, wooden scale	Sem I


HOD/ S & H

Professor

Department of Science and
Humanities

Jansons Institute of Technology
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Principal

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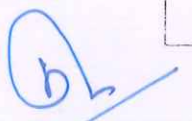
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10.	Melde's string apparatus, thread and weight pan, weight hanger and slotted weights.	Sem I
11.	Michelson interferometer set-up, sodium vapour lamp and accessories	Sem I
12.	Photoelectric effect apparatus with necessary accessories, tungsten halogen lamp, Cesium-type vacuum photodiode.	Sem I
13.	Lattice dynamics kit with built-in audio oscillator and electrical transmission Line (for mono and di-atomic lattices), general purpose CRO having XY mode.	Sem I

CHEMISTRY LABORATORY

14.	Hot air oven	Sem I
15.	Digital Flame photometer	Sem I
16.	Muffle Furnace	Sem I
17.	Digital Visible Spectrophotometer	Sem I
18.	Digital electronic Balance	Sem I
19.	pH meter	Sem I
20.	Conductivity meter	Sem I
21.	Potentiometer	Sem I
22.	Hot plate with temperature controller	Sem I
23.	Magnetic Stirrer	Sem I
24.	Water bath	Sem I
25.	Demineralizer unit	Sem I
26.	Stopwatch	Sem I
27.	Mechanical Shaker	Sem I


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