



## KAMALJEETH INSTRUMENTATION & SERVICE UNIT

No-610, 5<sup>th</sup> Main, 8<sup>th</sup> Cross, JRD Tata Nagar, Bangalore - 560 092, INDIA.

Phone 080-23512287, Fax 080-23517534, Mobile 8105508888

Email: labexperiments@kamaljeeth.net, Web: www.kamaljeeth.net

Serial no	Experiment	Grade/Chapter/ Page	Equipment	Price (Rs)
1.	Measurement of linear dimensions and density of regular shaped objects using Digital calipers	8/C16/183  (8 <sup>th</sup> Std textbook Chapter 16 page no 183)	<ul style="list-style-type: none"> <li>Digital weighing balance with enclosure 200gm/0.01gm</li> <li>Digital callipers</li> <li>Pipette 25ml</li> <li>Tissue paper</li> <li>Thread</li> <li>Measuring jar plastic 250ml</li> <li>Beaker plastic 50ml</li> <li>Distilled water 10 Litre</li> <li>Different pieces of regular and irregular shapes (Cube - 4 metals, Cylinders - 2, Irregular -1 non metal)</li> </ul>	4,500/-
2.	Determination of density of irregular shaped solids by displacement method			
3.	Determination of density of irregular shaped solids by buoyancy method			
4.	Determination of density of liquids.			
5.	Determination of Planck's constant and work function - Photoelectric effect	9/C23/299	<ul style="list-style-type: none"> <li>Planck constant kit with colour filters</li> </ul>	12,000/-
6.	Verification of Charles's law	10/C18/292	<ul style="list-style-type: none"> <li>Round bottom flask</li> <li>Plastic Bucket</li> <li>Meter scale</li> <li>Rubber tube</li> <li>Glass tube</li> </ul>	750/-



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7.	Verification of Boyle's law	10/C18/ 294	<ul style="list-style-type: none"> <li>Burette - Polylab 50ml</li> <li>Heavy base retort stand</li> <li>Meter scale</li> <li>Rubber tube</li> <li>Glass tube</li> </ul>	1,420/-
8.	Determination of absolute zero. (-273°C), plotting P Vs t	10/C18/ 292	<ul style="list-style-type: none"> <li>Pressure cooker with pressure gauge</li> <li>Hot Plate</li> <li>Digital thermometer</li> <li>Rubber Tube</li> </ul>	3,600/-
9.	Laws of Reflection	8/C17/ 191	<ul style="list-style-type: none"> <li>Glass mirror with base</li> <li>Supporting board</li> <li>Pin - big size</li> <li>Thick paper pack (set of 100)</li> <li>Protractor - large size</li> </ul>	715/-
10.	Refraction and lateral shift of light using glass slab - pin method	8/C17/ 200	<ul style="list-style-type: none"> <li>Glass slab</li> <li>Glass prism</li> <li>Supporting board</li> <li>Pin - big size</li> <li>Thick paper pack (set of 100)</li> <li>Protractor - large size</li> </ul>	985/-
11.	Determination of refractive index of glass prism - pin method			



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12.	Determination of wavelength of laser using transmission grating	9/C23/ 307	<ul style="list-style-type: none"> <li>Pointed Diode Laser with battery backup with mount</li> <li>Diffraction Grating with stand</li> <li>White screen</li> </ul>	5,100/-
13.	Determination of Focal Length of convex lenses and concave mirrors	9/C10/ 130 8/C17/ 197-199	<ul style="list-style-type: none"> <li>Convex Lens</li> <li>Concave mirror</li> <li>Optic bench</li> <li>Acrylic lens holder - 2 nos</li> <li>White screen</li> <li>CFL based source and object</li> </ul>	3,100/-
14.	Demonstration of electromagnetic induction using Earth's magnetic field	10/C16/ 261	<ul style="list-style-type: none"> <li>Induction Coil</li> <li>Ferrite magnets</li> <li>Galvanometer</li> </ul>	900/-
15.	Determination of Magnetic moment of a bar magnet by mapping of magnetic lines of force.		<ul style="list-style-type: none"> <li>Bar magnet</li> <li>Magnetic compass - Big</li> <li>Thick paper pack (set of 100)</li> </ul>	460/-
16.	Determination of resistivity of metal wire using meter bridge	9/C24/ 326 10/C15/ 226	<ul style="list-style-type: none"> <li>Wire of unknown resistance</li> <li>Digital callipers</li> <li>Standard resistance box 1M Ohm</li> <li>Metre bridge</li> <li>Galvanometer and connecting wires</li> <li>Standard Cell mains operated</li> </ul>	5,900/-
17.	Variation of resistance of copper wire with temperature	9/C24/ 326	<ul style="list-style-type: none"> <li>Copper coil</li> <li>Glass beaker 250 ml &amp; Glass rod</li> <li>Kettle for hot water</li> <li>Digital thermometer</li> <li>Multimeter - basic features</li> </ul>	3,280/-



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18.	Variation of resistance of semiconductor with temperature		<ul style="list-style-type: none"> <li>Thermistor with connector</li> <li>Digital thermometer</li> <li>Kettle for hot water</li> <li>Glass beaker 250 ml</li> <li>Multimeter - basic features</li> <li>Glass rod</li> </ul>	3,205/-
19.	Determination of velocity of sound in air at room temperature using resonance column.	8/C14/ 161 10/C14/ 215 10/C8/ 107	<ul style="list-style-type: none"> <li>Open ended pipe - set of 3,</li> <li>Tuning forks Aluminium and rubber pad set of 8</li> <li>Water Jar large - Acrylic</li> <li>Retort stand with clamp</li> </ul>	3,650/-
20.	Verification of conservation of energy.	8/C10/ 113	<ul style="list-style-type: none"> <li>Conservation of energy kit with digital start/stop timer, Solid metal sphere and cylinders</li> </ul>	7,500/-
21.	Determination of acceleration due to gravity using simple pendulum	9/C22/ 294 10/C8/ 107	<ul style="list-style-type: none"> <li>Bob, thread, stand &amp; metre scale</li> <li>Digital stop clock</li> <li>Digital callipers</li> </ul>	4,000/-
22.	Verification of Ohms law series and parallel combination of resistors	9/C24/ 326-330	<ul style="list-style-type: none"> <li>Ohm's law kit with set of Resistors</li> </ul>	4,000/-
23.	Diode characteristics	10/C17/ 280	<ul style="list-style-type: none"> <li>Diode characteristics kit</li> <li>Rectifier Diode, Zener diode and LEDs set</li> </ul>	4,500/-
24.	Zener diode characteristics			



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25.	Half wave, Full wave and Bridge rectifier circuits.	10/C17/ 282	<ul style="list-style-type: none"> <li>Rectifier kit, with resistors, and filter capacitors</li> <li>Oscilloscope (Optional)</li> </ul>	4,000/-  20,000/-
26.	Transistor Characteristics	10/C17/ 285	<ul style="list-style-type: none"> <li>Transistor characteristics kit</li> </ul>	5,500/-
27.	Measurement of short circuit current and open circuit voltage of solar panel.	10/C1/ 3	<ul style="list-style-type: none"> <li>Solar panel</li> <li>Multimeter - basic features</li> <li>Ammeter</li> </ul>	1,900/-
28.	Determination of specific heat capacity of metals	9/C3/ 49	<ul style="list-style-type: none"> <li>Different metal rods</li> <li>Kettle for hot water</li> <li>Digital thermometer</li> <li>Distilled water 10 Litre</li> <li>Beaker</li> </ul>	3,280/-
29.	Comparison of linear thermal expansion coefficient of metals	9/C3/ 38 8/C15/ 167	<ul style="list-style-type: none"> <li>Brass pipe with spherometer</li> <li>Steam generator pressure cooker</li> <li>Hot plate</li> <li>Digital Thermometer</li> <li>Rubber tube</li> <li>Round bottom flask</li> </ul>	5,430/-
30.	Determination of Volume expansion coefficient of water	9/C3/ 45	<ul style="list-style-type: none"> <li>Round bottom flask</li> <li>Distilled water 10 Litre</li> <li>Digital thermometer</li> </ul>	1,180/-



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31.	<b>Determination of Latent heat of fusion-ice to water phase transition.</b>	9/C3/ 51	<ul style="list-style-type: none"> <li>Digital weighing balance with enclosure 200gm/0.01gm</li> <li>Distilled water 10 Litre</li> <li>Ice cube box</li> <li>Digital Thermometer</li> </ul>	3,600/-
32.	<b>Dispersion of light, Photon Energy (<math>E = hf</math>)</b>	9/C5/ 87	<ul style="list-style-type: none"> <li>Digital Spectrometer</li> <li>White light source</li> </ul>	24,800/-
33.	<b>Skywatch - Moon, Jupiter and Saturn</b>	8/C24/ 300	<ul style="list-style-type: none"> <li>Celestron Power Seeker 40AZ Telescope</li> </ul>	4,000/-
34.	<b>Determination of solar constant.</b>	8/C24/ 297	<ul style="list-style-type: none"> <li>Copper block with blackened surface and enclosure</li> <li>Digital thermometer</li> <li>Digital timer</li> </ul>	3,500/-
35.	<b>Archimedes' Principle</b>	9/C10	<ul style="list-style-type: none"> <li>Graduated Pipette</li> <li>Glass Jar with Single Arm</li> <li>Collection Beaker</li> <li>Digital hook balance</li> <li>Retort stand</li> <li>Thread</li> </ul>	1,600/-



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### TERMS & CONDITIONS

Reference	Validity	Payment Terms	Est. Delivery time
	30 Days	100% Advance	14 days from receiving P.O

Taxes (Additional)	Packing & Forwarding	Fright	Demo Charges
CGST @ 9%	Extra	Extra	Extra
SGST @ 9%			

#### General Terms and Conditions:

1. GST @ 18% and (or) @ 28% as indicated.
2. Any forms required by the state for transit/rebate/tax exception to be provided by the customer in advance.
3. All care will be taken by us to pack according to be fit for transportation. However, in rare cases there may be possibility of damages, for which the company is not responsible.
4. Transit insurance can be obtained at additional cost, if necessary.
5. Approximate lead time is 3 weeks from the date of receiving the original purchase order from the party. However, company reserves the right to prolong.
6. Experiment Demo can be provided at an additional cost (if applicable).

Thanks and regards,

For KJISU,

Ajeya Padmajeeth

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