



# Karimpur Pannadevi College

Estd- 1968

**P.O.-Karimpur, Dist-Nadia, Pin- 741152, W.B.**

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Ph.-(03471) 255 158, Fax-(03471) 255 158

Ref No. 32/935

Date 22/03/2022


From, The Principal / Teacher-in-Charge / Secretary

## TENDER NOTICE

Sealed Quotations are invited within 07/04/2022 for the following instruments required for Physics Laboratory (as per Kalyani University Syllabus)–

For details please visit <https://karimpurpannadevicollege.in>

PAPER	EXPERIMENT NAME	REMARKS\REQUIRED
H-CC-2	<ol style="list-style-type: none"><li>To determine the height of a building using</li><li>To study the Motion of Spring and calculate (a) Spring constant, (b) g Sextant.</li><li>To determine the value of g using Bar Pendulum</li><li>To draw the frequency – resonance length curve of a sonometer wire and to determine an unknown frequency of a tuning fork</li><li>Measurement of coefficient of viscosity by Stoke's method</li></ol>	FULL SET-UP
HCC-3	<ol style="list-style-type: none"><li>To study response curve of a Series LCR circuit and determine its (a) Resonant frequency, (b) Impedance at resonance, (c) Quality factor Q, and (d) Band width.(- COMPACT SET-2 PIECES)</li><li>To determine an unknown Low Resistance using Potentiometer</li><li>To determine an unknown Low Resistance using Carey Foster's Bridge</li></ol>	FULL SET-UP
HCC-4	<ol style="list-style-type: none"><li>To determine the frequency of an electric tuning fork by Melde's experiment and verify <math>X^2</math> -T law.</li><li>To determine wavelength of sodium light using Fresnel Biprism</li><li>To determine wavelength of (1) Na source and (2) spectral lines of Hg source using plane diffraction grating.</li></ol>	<ol style="list-style-type: none"><li>ELECTRIC TUNNING FORK</li><li>BIPRISM GLASS</li><li>PRISM GLASS</li><li>2D GRATING LASER SET-UP</li></ol>

  
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HCC-6	<ol style="list-style-type: none"> <li>To determine the Temperature Coefficient of Resistance by Platinum Resistance Thermometer (PRT).</li> <li>To study the variation of Thermo-Emf of a Thermocouple with Difference of Temperature of its Two Junctions</li> <li>To determine the Coefficient of Thermal Conductivity of a bad conductor by Lee and Charlton's disc method</li> </ol>	FULL SET-UP AND INSTALLATION
HCC-9	<ol style="list-style-type: none"> <li>Measurement of Planck's constant using black body radiation and photo-detector</li> <li>To determine work function of material of filament of directly heated vacuum diode</li> <li>To determine the slit width (a,b) using diffraction of double slits</li> <li>To determine (1) wavelength and of He-Ne light using plane diffraction grating</li> <li>To show the tunnelling effect in tunnel diode using I-V characteristics</li> </ol>	<ol style="list-style-type: none"> <li>1.PHOTO DIODE, LASER LIGHT</li> <li>2.COMPACT SET-UP</li> <li>3.SINGLE SLIT &amp; DOUBLE SLIT ONLY</li> <li>4. Na light source spply and He/Ne light source supply</li> <li>5. compact set up or tunnel diode</li> </ol>
HCC-10	<ol style="list-style-type: none"> <li>DIGITAL OSCILLOSCOPE (1 piece)</li> <li>INPUT FUNCTION GENERATOR ( 1 piece)</li> <li>DIGITAL DC VARIABLE POWER SUPPLY (0-2VOLT &amp; 0-12 VOLT) (each one )</li> <li>Study of V-I &amp; power curves of solar cells, and find maximum power point &amp; efficiency.</li> <li>DIGITAL MULTIMETER</li> <li>SINGLE HOOK WIRE FOR BREAD BOARD</li> <li>ICs-for OR,NAD,NOT,NAND,HALF ADDER, FULL ADEER, ADC, DAC OPERATION, 555 timer, JK FLIP FLOP RS FLIP FLOP ( EACH TWO)</li> <li>To design a digital to analog converter (DAC) of given specifications.</li> <li>To study the analog to digital convertor (ADC) IC.</li> <li>DIGITAL DC VOLTTMETER (0-1 VOLT) BATTERY OPERATED (2 PIECE)</li> <li>DIGITAL DC MICRO AMPERE AND MILLIAMPERE BATTERY OPERATED 2 PIECE)</li> <li>DIGITAL AC VOLTTMETER (0- 5 VOLT) ONE PIECE BATTERY OPERATED</li> </ol>	<p>4. Full set up</p> <p><i>(Signature)</i> Teacher-In-Charge Karimpur Pannadevi College P.O.Karimpur, Dist. Nadia</p>





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HCC-12	<ol style="list-style-type: none"> <li>1. Verification of the inverse cube law for magnetic dipoles (study of the dependence of the field of a magnetic dipole on distance) and determination of the horizontal component of the earth's magnetic field by deflection and oscillation magnetometers.</li> <li>2. To measure the resistivity of a semiconductor (Ge) with temperature by four probe method (room temperature to 150 °C) and to determine its band gap.</li> <li>3. To determine the Hall coefficient of a semiconductor sample.</li> <li>4. To draw the BH curve of Fe using Solenoid &amp; determine energy loss from Hysteresis.</li> <li>5. To measure the mutual inductance of two coaxial coils at various relative orientations using a ballistic galvanometer.</li> </ol>	<ol style="list-style-type: none"> <li>1. FULL SET UP</li> </ol>
HCC-13	<ol style="list-style-type: none"> <li>1. To determine the specific rotation of sugar solution using Polarimeter</li> <li>2. To study the reflection, refraction of microwaves</li> <li>3. To study Polarization and double slit interference in microwaves</li> <li>4. To determine the Boltzmann constant using V-I characteristics of PN junction diode.</li> <li>5. To verify Brewster's law and Fresnel formulae for reflection of electromagnetic waves with the help of a spectrometer, a prism and two polaroids</li> <li>6. To study the polarization of light by reflection and determine the polarizing angle for air-glass interface</li> </ol>	<ol style="list-style-type: none"> <li>5. FULL SET UP</li> <li>1. POLARIMETER</li> <li>2. FULL SET UP</li> <li>3. FULL SET UP</li> <li>4. FULL SET UP</li> <li>5. DO</li> <li>6. FULL SET UP</li> </ol>

*(Signature)*  
Teacher-in-Charge  
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Kaustav Chatterjee