

भौतिकी विभाग  
उदय प्रताप कालेज, वाराणसी.  
(स्वायत्तशासी संस्था)



Department of Physics  
Udai Pratap College, Varanasi.  
(Autonomous Institution)

College with Potential for Excellence, DST-FIST & DBT-Star College. Website: www.upcollege.ac.in

पत्रांक. सं. Phy/446/24-25

दिनांक-24.10.2024

To.

M/S .....

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Dear Sir .

Kindly quote your lowest price for the following Attached List of Recurring Accessories./Articles Instruments/Equipments/Apparatus latest by up to 09/11/2024, Stating write clearly in your quotation letter, Make, Model No, Manufacturing Company, guaranty/warranty, GST rate and all detailed of other specification in sealed envelope with quotation letter to Name of Principles, Udai Pratap (Autonomous) College Varanasi.

Principal  
U.P. College Varanasi

Head  
Deptt. of Physics

### Equipment List of Physics Department for B.Sc. Lab.

S.No.	Name of the Instruments/Apparatus/Accessories	Quantity
1.	3 <sup>1</sup> / <sub>2</sub> / 6 <sup>1</sup> / <sub>2</sub> Digit Digital Multimeter hand held Standard (Scientific) (mV range) Model Omega Jaipur DMM-01	12pc
2.	Digital Stop watch Racer with start/stop & reset push button	12pc
3.	Variable Rectangular single Slit	06pc
4.	Mercury Light Source on Metal Stand	06pc
5.	Spherometer 1/100mm	12 pc
6.	I.C. Bread Board for B.Sc. Lab 3 terminal 1680 tie/contact with 05 V supply 1A Fixed	12pc
7.	Digital Function Generator 1Hz to 1MHz (Scientific)	03pc
8.	Function Generator Analog 1Hz to 1MHz (Scientific)	03pc
9.	AC Milli voltmeter dual range 0-500mV/0-10V	04
10.	Battery Eliminator 12 Step fix output 1.5v,2v,3v,4v,5v,6v,7v,8v, 9v, 10v, 11v,12v Fixed, 2Amp.	06pc
11.	Milli Ameter (0-25)	06
12.	Ameter DC (0-3A)	06
13.	Galvanometer 30-0-30	06
14.	Table Lamp	12pc
15.	Sextant Apparatus complete setup	01 set
16.	Melde's Experiments electrically tuning fork complete setup	01set
17.	Callender & Barne's Apparatus complete set with power supply(24V ac @3A ammeter , voltmeter, thermometer & Digital stop clock etc.	01set
18.	Verification of Stefan's law complete set	02
19.	Thermal Conductivity of a bad conductor by Lee and Charlton's method complete set	01
20.	Self Inductance by Anderson's Bridge complete set	01set
21.	PN Junction Diode Ch. Apparatus combined with four Analog meter complete set	04
22.	Zener Diode Ch. Apparatus combined with four Analog meter complete set	02
23.	Half wave and full wave rectifiers and filter circuits complete set	01set
24.	Variation of magnetic field with Distance along the axis of Single coil bench model complete set	01set
25.	Variation of Magnetic Field with Distance along the axis of Helmholtz coil bench model complete set	01set
26.	Transistor Bias Stability complete set with Digital Multimeter mV range.	01
27.	Comparative Study of CE, CB and CC Amplifier complete set.	01
28.	Frequency response of single stage RC coupled amplifier complete set.	01
29.	Frequency response of single stage Transformer coupled amplifier complete set.	01
30.	Effect of negative feedback on frequency response of RC coupled amplifier comp. set.	01
31.	Red Diode laser	01
32.	FET Conventional Amplifier with Digital Multi meter mV range & Function Generator complete set.	01 Set
33.	Hybrid Parameters of a Transistor AC Millivoltmeter with built in Oscillator complete set.	02 Set

### Equipment List of Physics Department for M.Sc. Lab.

S. No.	Name of the Instruments/Apparatus/Accessories	Quantity
1.	I.C. Bread Board for M.Sc. Lab 3 terminal 1680 tie/contact with 05 V supply 1A Fixed	12pc
2.	Digital Function Generator 1Hz to 1MHz (Scientific)	03pc
3.	Function Generator Analog 1Hz to 1MHz (Scientific)	03pc
4.	Polarizer & Analyzer (QWP)	02+02
5.	Hybrid Parameters of a Transistor AC Millivoltmeter with built in Oscillator complete set.	02
6.	Michelson Interferometer complete setup	01
7.	He-Ne Laser with power supply 2mw.	01
8.	Polarization Experiment set up with He-Ne Laser complete set.	01
9.	CRO Dual Tracer Two Channel.	02
10.	Lattice Dynamics Apparatus.	01
11.	Pulse Code Modulation and Demodulation Apparatus.	02
12.	Four Probe Set-Up for measuring the Resistivity of Semiconductor complete set.	01
13.	Multiplexer 16:1 using IC74150	02
14.	De-Multiplexer 1:16 using IC74154	02
15.	To Study the Binary to Decimal Encoder.	02
16.	To Study the BCD to Decimal Decoder seven segment.	02
17.	Microprocessor 8085 Experimental Setup Complete	01
18.	Interfacing with Microprocessor 8085 Experimental Setup Complete	01
19.	To Study up counter using IC74193	01
20.	To Study down counter using IC74193	01
21.	Decade counter	01
22.	Study of Multivibrators (Astable, monostable, bistable using IC-555)	01
23.	Phase Shift Oscillator	01
24.	Module-n counter (Module, m-6, m-9 & m-12)	01
25.	IC Timer 555 expt. Set	01
26.	Angle of Divergence with He-Ne Laser Experimental set.	01