

Department of Physics,
S. K. M. University, Dumka
List of Instruments

Sl. No.	Instruments with specification
1.	Industrial Furnace (Grooved type) : With digital temperature control unit. (a) Maximum temp. range 1200 degree Celsius and working temp. 1100 degree Celsius. (b) Maximum temp. range 1800 degree Celsius and working temp. 1700 degree Celsius with gradient arrangement.
2.	Digital Physical Balance: Capacity 200g. sensitivity 2mg. stainless steel Pans.
3.	Scanning Electron Microscope (SEM) (with advance table top, EDS Software and other accessories, sample size 80mm(D)/50mm(H).
4.	Oil less compressor
5.	Computational software: (1) Mathematica (2) Matlab
6.	Febry-Perot interferometer with low pressure sodium lamp (20 Watt) (complete set)
7.	FET complete set/ Kit with high quality aluminum panel.
8.	MOSFET Characteristic apparatus with aluminum panel and two DC regulated power supply 0-15VDC/150mA & 0-25 VDC/150mA.
9.	Transistor Characteristic Kit with aluminum panel and regulated power supply different ranges.
10.	UJT Characteristic apparatus with aluminum panel with two dc regulated power supplies of 0-15V & 0-25V.
11.	Logic gate Kit.
12.	SCR Characteristic apparatus kit with aluminum panel and two DC regulated power supply.
13.	ESR complete set with magnetic coils and Control unit.
14.	Four probe apparatus for resistivity measurement .
15.	Hall effect complete set .
16.	GM Counter with GM 35 probe, 150V range, dead time 200 micro-sec etc.
17.	Dielectric constant measurement (solid and liquid) apparatus for research purpose with temp. Controller system.
18.	Lattice dynamic KIT with different frequency range.

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169

19.	Ballistic Galvanometer
20.	Raman spectrometer (Polycrystalline measurement with high resolutions), Accuracy less than 0.4nm, wavelength range-200nm-2000nm, Adjustable slit width.
21.	Atomic Absorption spectrometer
22.	Millikan's Oil drop instrument complete set
23.	Apparatus for determination of specific charge (a) Helical method (b) Magnetron valve method(c) Brown's tube method
24.	FTIR (Fourier transform infrared spectrometer)
25.	Solar cell characteristic apparatus
26.	Plasma Interferometer
27.	Klystron valve to study its characteristic
28.	Oscilloscope – dual trace
29.	Magnetron valve
30.	Functional Generator
31.	Multiplexer
32.	De-multiplexer
33.	Encoder-decoder
34.	D/A & A/D Convertor.
35.	Adder-Half adder and full adder
36.	Microprocessor 30386
37.	Cloud chamber
38.	Holography Experimental kit
39.	Resolving power of Telescope (complete set)
40.	Optical fiber kit
41.	B-H curve complete set
42.	Frequency modulation and demodulation
43.	Microwave power trainer
44.	Solar energy trainer

45.	Bread board trainer
46.	Transistor as amplifier kit
47.	Electronic plug in Kit (for multiple exp. Kit)
48.	OP-Amp as Oscillation
49.	Highly configured computer (Dell OptiPlex 7010 desktop, Intel core i5)
50.	Color printer with scanner (HP)
51.	Mathematica Software (advance version)
52.	Matlab Software

53

mortar and pestle (agate mortar)

54 -

Resistance box (R , $k\Omega$, $M\Omega$)

Head

Department of Physics

