Mandatory Disclosure for AICTE

MECHANICAL ENGINEERING DIVISION

Serial No.	List of instruments	Qnty.	Serial No.	List of experimental setup in each Laboratory/Workshop
1	Drawing table	32nos	1	Engineering Graphics and Design
2	Seating stool	32nos	1	Engineering Graphics and Design
3	Drawing Board	32nos	1	Engineering Graphics and Design
4	Lathe	3 nos	2	Making a Round Headed Pin
5	Shaping M/c	2 nos	3	Making a MS Cube
6	Drilling M/c	3 nos		Use for Supporting Purpose
7	Grinding M/c	2 nos		Use for Supporting Purpose
8	Milling M/c	1no	4	Make a slot on Ms Plate
9	Welding machine	2nos	5	Making a butt joint with MS plate
10	Welding table	2nos		Supporting Purpose of Welding lab
11	Electronics	2 nos	6	Construction of Full wave rectifier
12	Foundry Table	2 nos	7	Making a Mould of the Given pattern
12	House wiring Model	1 no	8	Study of House Hold Wiring
13	Plastic moulding machine	1 no	9	Making a job on Plastic moulding m/c
14	Fitting and carpentry table-4nos	4 no	10	Making a joint (Carpentry)
15	Model of water Tube and Fire Tube Boiler	4 no	11	Model Study of Different Water Tube and Fire Tube Boiler
16	Cleveland Apparatus	1 no	12	To determine Flash Point of Diesel
17	Penskey Apparatus	1 no	13	To determine Flash point of Petrol
18	Abel Apparatus	1 no	14	To determine Flash point of Kerosine
19	Bomb Calorimeter	1 no	15	Study of Bomb Calorimeter
20	Valve Timing Diagram Model of Petrol and Diesel Engine	1 no	16	To Study of Valve Timing Diagram of Petrol and Diesel Engine

CHEMISTRY DIVISION

Serial No.	List of instruments	Qnty.	Serial No.	List of experimental setup in each Laboratory/Workshop
1	conductivity me	4 nos	1	Determination of dissolved oxygen present in a given water sample
2	ph meter	5 nos	2	Conductometric titration for determination of the strength of a given HCl
3	UV-spectrophor	1 nos	3	Determination of the partition coefficient of a substance between two im...
4	digital thermon	1 nos	4	Adsorption of acetic acid by activated charcoal
5	UV-Chamber	1 nos	5	Determination of viscosity coefficient of percentage sugar solution
6	Thermometer	4 nos	6	pH- metric titration for determination of strength of a given HCl solution
7	Electronic Weig	2nos	7	Determination of chloride ion concentration present in given water sam...
8	Air Oven	1 nos	8	Determination of rate constant for the hydrolysis of ethyl acetate cataly...
9	Hot plate	2 nos	9	Analysis of components of given mixture by thin layer chromatography
10	Mechanical Sha	2 nos	10	Determination of cell constant and EMF of cell by potentiometry
11	Water bath	1 nos		
12	Magnetic stirre	1nos		
13	Fume chamber	1nos		
14	Burette stand	40 nos		
15	pipette stand	40 nos		
16	centrifuge	1nos		
17	colorimeter	1nos		
18	digital voltmete	6 nos		
19	digital multimeter	3 nos		
20	tlc plate dryer	1nos		

PHYSICS DIVISION

Serial No.	List of instruments	Serial No.	List of experimental setup
1	LASER diffraction setup	1	Determination of Band gap of semiconductor.
2	Lee and Charlton's apparatus	2	Determination of dielectric constant of a given dielectric material.
3	Meter Bridge	3	Determination of Hall coefficient of a semiconductor by four probe method.
4	Newton's ring apparatus	4	Determination of Lande-g factor using Electron spin resonance spectrometer.
5	Optical benches	5	Determination of Planck constant using photocell.
6	Power supply (0-12 v)	6	Determination of resistance of ballistic galvanometer by half deflection method and study of variation of logarithmic decrement with series resistance.
7	Rigidity modulus setup	7	Determination of Rydberg constant by studying Hydrogen spectrum.
8	Searle's apparatus	8	Determination of specific charge (e/m) of electron by J.J. Thompson's method.
9	Sodium vapour lamp power supply	9	Determination of Stefan-Boltzmann constant.
10	Sodium vapour lamp with housing	10	Determination of the thermal conductivity of good conductor by Searle's Method.
11	Spectrometer	11	Determination of the Thermal conductivity of a bad conductor using Lee and Chorlton's method
12	Travelling microscope	12	Determination of thermoelectric power of a given thermocouple.
13	Viscosity apparatus	13	Determination of volume of the material of a given sample using a Vernier Calipers & Screw-Gauge.
14	Young's modulus setup	14	Determination of wavelength of monochromatic light by Newton's rings Method.
15	Ballistic galvanometer	15	Determination of wavelength of monochromatic light using a diffraction Grating.
16	Band gap setup	16	Determination of Young's Modulus of the material of a bar by Flexure Method.
17	Cathode-ray oscilloscope	17	To determine the coefficient of viscosity of liquid by capillary flow method.
18	Dielectric constant setup	18	To determine the Dispersive Power of the material of a Prism.
19	Electromagnet	19	To determine the Modulus of Rigidity of the material of a wire.
20	ESR spectrometer	20	To measure the wavelength of light emitted by Sodium source using Fresnel's Bi-prism.
21	Function generator	21	To study current voltage characteristics, load response, areal characteristic and spectral response of a photovoltaic solar cell.
22	Gas discharge tube power supply	22	Use of Carey foster's bridge to determine unknown resistance.
23	Gauss meter		
24	Half deflection kit		
25	Hall co-efficient kit		
26	Hall coefficient setup		
27	Helmholtz coil		
28	J.J. Thomson apparatus for charge-to-mass ratio of the electron		
29	Optical benches		
30	Pico-Ammeter		
31	Planck constant apparatus		
32	Power supply (0-12 v)		
33	Power supply (cccv)		
34	Rydberg constant setup		
35	Solar cell setup		
36	Spectrometer		
37	Stefan's Boltzmann constant measurement kit		
38	Thermocouple setup		
39	AMMETER (AMPERE)		
40	AMMETER (pico)		
41	DEFLECTION MAGNETOMETER		
42	DIGITAL MULTIMETER		
43	ANALYZER & POLARIZER		
44	DIGITAL THERMOMETER		
45	DIOD CHARACTERISTIC KIT		
46	ELECTRIC DRILL		
47	ELECTRIC HEATERS		
48	ELECTROMAGNET		
49	FILTERS (OPTICAL)		
50	GALVANOMETER-BALLISTIC		
51	FUNCTION GENERATOR		
52	GALVANOMETER-MOVING COIL		
53	GALVANOMETER-TANGENT		
54	GAUSS METER		
55	HELMHOLTZ COIL		
56	HYPSOMETER		
57	IRON STANDS		
58	MAGNETOMETER STAND		
59	MEASURING CYLINDER		
60	METER BRIDGE		
61	METER SCALE		
62	OPTICAL BENCHES		
63	PHOTOCELL		
64	POTENTIOMETER		
65	POST OFFICE BOX		
66	POWER SUPPLY (constant current type)		
67	POWER SUPPLY (2v)		
68	POWER SUPPLY (12v)		
69	POWER SUPPLY (0-12v)		
70	POWER SUPPLY (constant current constant voltage type)		
71	POWER SUPPLY (gas discharge tube)		

HUMANITIES DIVISION

Serial No.	List of Equipments/Facility	Quantity	List of Experimental setup
1	Teacher's Console	1 no.	Communication sessions
2	Students' Console	32 nos.	Communication sessions
3	Headphones	33 nos.	Group Discussions
4	Microphone	1 no.	Public Speech, Debate.
5	Podium	1 no.	Public Speech, Debate
6	Projector	1 no.	Powerpoint Presentations, Micro-project
7	White Screen	1 no.	Presentations
8	White Board	1 no.	Presentations.
9	Group Discussion	2 no.	Group Discussions, Mock Interview.

MATHEMATICS DIVISION

Serial No.	List of Equipments/Facility	Quantity	List of Experimental setup
1	HP PC;Intel Core i5-8500 3 GHz CPU, 1 TB 7200 RPM SATA 6G 3.5 HDD, 8 GB DDR4 RAM, 19 "LED MONITOR, USB KEYBOARD; USB MOUSE		Assignments on Newton forward /backward, Lagrange's interpolation.
2	HCL PC;INTEL CORE 2 DUO CPU; 160 GB HDD, 1 GB RAM, USB MOUSE, KEYBOARD		Assignments on numerical integration using Trapezoidal rule, Simpson's 1/3 rule, Weddle's rule
3	HP PC Intel Core i3-4130 3.4G 3M HD 4400 CPU, 500 GB 7200RPM SATA 6G 3.5 HDD, 4 GB DDR3 RAM, 18.5 " LED MONITOR, USB KEYBOARD, USB MOUSE		Assignments on numerical solution of Algebraic Equation by Regular-falsi and Newton Raphson methods.
4	NETWORKSWITCH;L2		Assignments on ordinary differential equation: Euler's and Runga-Kutta methods.
5	CENTRAL UPS; 10KVA		Assignments on numerical solution of a system of linear equations using Gauss elimination and Gauss-Seidel iterations.
			Introduction to Software Packages: Matlab / Scilab / Labview / Mathematica

							72	POWER SUPPLY (vapour lamp)												
							73	RESISTANCE BOX												
							74	RHEOSTAT												
							75	solder gun												
							76	SCREW GAUGE & SLID CALIPERS												
							77	gas discharge tube(hydrogen)												
							78	gas discharge tube (helium)												
							79	SPECTROMETER												
							80	STOP CLOCK												
							81	TORCH												
							82	TRAVELLING MICROSCOPE												
							83	TRIODE CHARACTERISTIC KIT												
							84	VOLTMETER (ANALOG)												
							85	VOLTMETER (DIGITAL)												
							86	WEIGHING BALANCE												
							87	ZANER DIOD CHARACTERISTIC KIT												