

Department of Physics

Guru Nanak College of Arts, Science & Commerce, G.T.B. Nagar, Mumbai – 400037

List of Experiments under the STAR-DBT Scheme and Equipments purchased

Sr. No	Practical	Equipment purchased
F.Y.B.Sc.		
1.	NAND as EX – OR gate (New addition)	Bread board, 7400 ICs
2.	NOR as EX – OR gate (New addition)	Bread Board, 7432 ICS
3.	EX – OR gate as 1's Complement (New addition)	Bread Board, 7432 ICS
4.	Study of Counter Circuit	CRO, Counter circuit
5.	Study of Superposition of wave	CRO/DSO
6.	Balmer Series of Hydrogen atom. (New addition)	Spectrometer, Hydrogen source
7.	Identification of Bravais lattices (New addition)	Bravais lattices models
S.Y.B.Sc.		
1.	Polarimeter (New addition)	Polarimeter tube, sodium Light Source
2.	Maximum Power Transfer Theorem	Resistance boxes
3.	Absorption of Acoustics Material (New addition)	Setup to study acoustics of material
4.	Law of Malus (New addition)	Diode laser, Pair of polarizer, Power meter
5.	h/e using vacuum photo cell	Photo tube, colour filters
6.	Thermal Conductivity by Lee's Method	Lee's apparatus, bad conductor, stop watch, screw watch, screw gauge, Vernier callipers
7.	Helmholtz Resonator (modification)	Helmholtz resonator, set of tuning forks, striking pad, measuring cylinder.
T.Y.B.Sc.		
1.	Sextant (New addition)	Sextant, sextant stand
2.	Differential count of leucocytes (wbc) (New addition)	Hemocytometer, WBC diluting pipette, sterile lancets, blotting paper
3.	Resistivity of ionic compounds (New addition)	Resistivity cell, nano ammeter, Dc regulated power supply
4.	Stepper motor (New addition)	8051 microcontroller
5.	Flashing of led (New addition)	8051 microcontroller

6.	Miller indices (New addition)	Different lattice plane models
7.	Cubic crystal system (New addition)	Simple cubic system, Base centred cubic lattice and Face centred cubic lattice models.