



ESTD-1854



Physics Department

Sr. No.	Name of the Department	Total No. of Labs	Equipment Cost (Rs. in Lakhs)
1	Physics	F. Y. B. Tech (UG) Lab	35.28
		Research Lab	6


Information about Lab

Space	No. of Students	Software used	Type of Experiments	Quality of Instruments	Lab manuals
3000 Sq. ft.	Batch size 18 Total 750 students per semester	-	Hands on experiments. Go well with theory. Sequence is matched with the ongoing topic in theory class	Good quality equipments in working condition. 2-3 students per one experiment set ups.	Printed manuals are available for students
1800 Sq. ft.					

Equipment Details

F. Y. B. Tech. Physics I Laboratory	Cost (Rs in Lakhs)
  <ul style="list-style-type: none"> • Fiber Optics Trainer & Multimeter • Law Of Malus • Digital Polarimeter • Spectrometer • Laser Expt. Setup • Electron Diffraction 	1.00 0.93 1.04 0.36 .973 3.59



		<p style="text-align: right;">2.88</p> <ul style="list-style-type: none"> • Frank-Hertz Expt 2.28 • Hysteresis Loop Tracer 1.36 • Newton's ring set-up 0.27 • Brewster's angle set-up 2.08 • Four probe Setup 2.07 • Hall Effect Setup .61 • Thomsons Tube 2.95 • Planks Constant Experimental Model 1.58 • P-N Junction characteristics measurement setup 2.23 • Dielectric constant measurement kit for solids 1.53 • Electromagnets with power supply 0.78 • Centrifuge Machine 0.10 • Magnetic stirrer 0.28 • Sonicator 0.74 • Magnetometer 6.93 • Faraday effect Experiment kit 3.27 • Biot Savarts Law 4.50 • High Temperature Programmable furnce 1.05 • Spin coating unit 1.00
Total		35.28
<p>Funded Research Project (Completed)</p> <p>UGC Major Research Project entitled "Grain size effects on transport, magnetic and magnetoresistance properties in manganites"</p> <ul style="list-style-type: none"> (i) Amount sanctioned 14.00 (ii) Nonrecurring amount 6.00 (iii) Recurring grant 8.00 		