21PYB102J - SEMICONDUCTOR PHYSICS AND COMPUTATIONAL METHODS – Laboratory component

List of Experiments (semiconductor physics part)

S. No	Name of the Experiment	Available in online
1	DETERMINATION OF HALL COEFFICIENT AND CARRIER TYPE FOR A SEMI-CONDUCTING MATERIAL	http://vlab.amrita.edu/?sub=1&brch=282&sim=879&cnt=1
2	BAND GAP DETERMINATION USING POST OFFICE BOX	
3	TO STUDY V-I CHARACTERISTICS OF A LIGHT DEPENDENT RESISTOR (LDR)	
4	RESISTIVITY DETERMINATION FOR A SEMICONDUCTOR WAFER USING FOUR PROBE METHOD	http://vlab.amrita.edu/?sub=1&brch=282&sim=1512&cnt=1
5	STUDY OF I-V AND I-R CHARACTERISTICS OF A SOLAR CELL & DETERMINATION OF EFFICIENCY OF SOLAR CELL	
6	CHARACTERISTIC OF PN JUNCTION DIODE UNDER FORWARDBIAS & REVERSE BIAS	http://vlabs.iitkgp.ernet.in/be/exp5/index.html
7	STUDY OF I-V CHARACTERISTIC OF PHOTO CELL	
8	STUDY OF ATTENUATION AND PROPAGATION HARACTERISTICS OF OPTICAL FIBER CABLE	http://vlabs.iitb.ac.in/vlabs-dev/labs/physics-basics/labs/numerical-aperture-measurement-iitk/index.html
9	CALCULATION OF LATTICE CELL PARAMETERS – X-RAY DIFFRACTION	http://vlab.amrita.edu/?sub=1&brch=282&sim=370&cnt=1