

Dr. C. V. RAMAN UNIVERSITY
KARGI ROAD KOTA, BILASPUR (C.G.)

DEPARTMENT OF PHYSICS

LIST OF EQUIPMENTS (M.SC.)

SEM. - I

Subject - Laboratory I (Electronics)

S.NO.	Name of Equipments	Object
1	Multivibrators	Study of A stable, Mono stable, Bi stable multivibrators by using IC 555
2	Hall Coefficient	Measurement of Hall Coefficient of given semiconductor: identification of type of semiconductor and estimation of charge carrier concentration.
3	Transistor Characteristics (CB mode)	Study of Transistor Characteristics in CB mode.
4	Transistor Characteristics (CE mode)	Study of Transistor Characteristics in CE mode.
5	Transistor Characteristics (CC mode)	Study of Transistor Characteristics in CC mode.
6	FET Characteristics	Study of FET Characteristics.
7	Energy Band Gap	To determine the forbidden energy gap of a semiconductor diode.

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SEM. - I

Subject - Laboratory II (Fiber-Optics)

S.NO.	Name of Equipments	Object
1	Numerical Aperature	Determination of NA by using optical fiber cable.

2	Fiber Optics (Analog Link)	Setting up fiber optics analog link.
3	Fiber Optics (Digital Link)	Setting up fiber optics analog link.
4	Modulation System (Analog Input Signal)	Intensity modulation system using analog input signal.
5	Modulation System (Digital Input Signal)	Intensity modulation system using digital input signal.
6	Frequency Modulation	Study and characteristics of Frequency modulation system.
7	Pulse width Modulation	Study and characteristics of Pulse width modulation system.
8	Optical Fiber	Study of propagation loss in optical fiber.
9	Bending Loss	Study of bending loss.
10	Optical Power Meter	Measurement of optical power using optical power meter.
11	OPM	Measurement of propagation loss using OPM.
