

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

DEPARTMENT OF PHYSICS
LIST OF EQUIPMENTS (M.SC.)

SEM. - II

Subject - Laboratory I (Solid State Physics & Advanced Electronics)

S.NO.	Name of Equipments	Object
1	MOSFET	Characteristics and application of MOSFET.
2	Uni - Junction Transistor	Study of Uni - Junction Transistor and its application.
3	Operational Amplifier (741)	Study of wave form of Operational Amplifier (741).
4	PAM	Study and characteristics of Pulse Amplitude Modulation.
5	Crystal Structure	Classification and study of crystal structure.

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Subject - Laboratory II (Laser & Spectroscopy)

S.NO.	Name of Equipments	Object
1	Wavelength of Laser Light	Measurement of wave length of given laser light.

2	Spectrophotometer	Study of Spectrophotometer.
3	Determination of λ_{max}	To determine λ_{max} (wave length of maximum absorption) of solution KMnO_4 using spectrophotometer.
4	Beer's Law	Verify the Beer's Law $\log I_0/I = A = \epsilon cl$
5	Malus Law Apparatus	Verification of Malus Law.
6	Inverse Square Law Apparatus	Study and verification of Intensity of laser light and semiconductor material.