PHYSICS LABORATORY						
Course Code	FE 150/FE250		Credits	1		
Scheme of Instruction	L	Т	Р	ТОТ	AL	
Hours/ Week	0	0	2	26 hrs/sem		
Scheme of Examination	IA	TW	TM	Р	0	
TOTAL = 25 marks	0	25	0	0	0	

Course Outcomes:

The student will be able to:

CO1	Co-relate experiments with theory
CO2	Make physical measurements, tabulate and analyse them and draw meaningful conclusions.
CO3	Maintain a laboratory notebook and well written laboratory report journal.
CO4	To work in a group and complete the given set of tasks

Minimum 12 Experiments to be performed from the following list.

SN	Experiment
1	Newton's Ring
2	Air Wedge
3	Hall Effect
4	Velocity of Ultrasonic Waves
5	He/Ne/Diode Lasers – Determination of wavelength & particle size
6	Energy Gap of a Semiconductor
7	Planck's Constant by Photocell
8	B-H Curve
9	Thermistor Characteristics
10	Dispersive power of the material of a prism
11	Determination of Optical Absorption Co-efficient of materials using lasers
12	Helmholtz Resonator
13	Determination of dielectric constant of a parallel plate capacitor
14	Photodiode characteristics and power response
15	Frequency of AC mains using Electric Vibrator
16	Estimation of Fermi Energy of Copper
17	Determine the acceptance angle and numerical aperture of an optical fiber
18	Determination of magnetic field constant along the axis of current carrying coil
19	Series and Parallel L-C-R circuit – Inductance, Bandwidth and Quality Factor

TE	XTBOOKS
1	M. N. Avadhanulu& P. G. Kshirsagar; A text book of engineering Physics; S. Chand
	& company Pvt. Ltd. Revised edition 2015.
2	A. S. Vasudeva; Modern Engineering Physics; S. Chand & Company Pvt. Ltd.
	Revised Edition. 2015