



ARSD College, University of Delhi

Model Course Handout/Lesson Plan

Course Name : B.Sc. Physics (H) Electromagnetic theory Lab						
Semester	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Credit (C)
VI th	32221601	Electromagnetic Theory	04	00	04	06
Teacher/Instructor(s)		Bhupendra Singh,Pawan Kumar,Anjali sharma,Lalit kumar,Ashok kumar				
Session		2021-22				

Course Description: Sessions on the construction and use of specific measurement instruments and experimental apparatuses used in the lab, including necessary precautions. Sessions on the review of experimental data analysis, sources of error and their estimation in detail, writing of scientific laboratory reports including proper reporting of errors. Application to the specific experiments done in the lab.

Details of the Lab Course		
Session	Name of Experiment	Contact Hours
1	To verify the law of Malus for plane polarized light	04-12
2	To determine the specific rotation of sugar solution using Polarimeter.	04-12
3	To determine the wavelength and velocity of ultrasonic waves in a liquid (Kerosene Oil,) by studying the diffraction through ultrasonic grating.	04-12
4	To determine Boltzmann constant using V-I characteristics of PN junction diode.	04-12
5	To find Numerical Aperture of an Optical Fibre.	04-12
Suggested Books:		
Sl. No.	Name of Authors/Books/Publishers	Year of Publication/Reprint
1.	B.Sc practical physics/Harnam Singh,P.s Hemne/ S.Chand	2011
2.	Geeta Senon/Physics practical/	2019

Evaluation Scheme:

No.	Component	Duration	Marks
1.	Internal Assessment		25
	• Quiz/Viva		
	• Observation & Record		
	• Attendance		
2.	• Model Exam	3 hr	50
	End Semester Examination		