

Curriculum Plan
Semester-II , 2024-25
B.Sc H Phy I year
PAPER – Electricity and Magnetism
(3 Periods per week)
Prof. Sudha Gulati

Topic	Allocation of Lectures	Month wise schedule followed by the Department	Tutorial/Assignment/ Presentation etc.
I. Electric field and electric potential	8 lectures	January - February	Problems on electric field and Gauss' theorem, electric potential
I. Boundary value problems	7 lectures	February	Problems in electrostatics Assignment
II. Method of images	5 lectures	March	Problems related to method of images Revision
II. Electric fields in Matter	6 lectures	March	Problems related to capacitance, dielectric and generalized Gauss' law Test
III. Magnetic field	9 Lectures	April	Related Problems of concept of magnetic field, Ampere's law and Biot Savart's law Revision Assignment
III. Magnetic properties of matter	5 lectures	April - May	Related Numericals of Magnetic field intensity and hysteresis
III. Electromagnetic induction	5 Lectures	May	Numericals related to Faraday's law and inductance, Maxwell's equations, Revision Test

