

Semester-II , 2022-23
B.Sc H Phy I year
PAPER – Electricity and Magnetism

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

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I. Electric field and electric potential	6 lectures	April	Problems on electric field and Gauss' theorem
II. Electric potential	6 lectures	April	Problems on electric potential
III. Electrostatic energy	10 lectures	April– May	Problems related to electrostatic energy and method of images Revision Assignment
IV. Dielectric properties of Matter	8 lectures	May	Problems related to capacitance, dielectric and generalized Gauss' law
V. Magnetic field	9 Lectures	June	Related Problems of concept of magnetic field, Ampere's law and Biot Savart's law Revision Assignment
VI. Magnetic properties of matter	4 lectures	June	Related Numericals of Magnetic field intensity and hysteresis
VII. Electromagnetic induction	6 Lectures	June - July	Numericals related to Faraday's law and inductance
VIII. Electric circuit	5 Lecture	July	Related Numericals of AC circuits Test
IX. Network theorems	6 lectures	July	Related numericals Revision