PHYSICS

No	Chapter	Focus area
1	ELECTRIC CHARGES AND FIELDS	1.2 ELECTRIC CHARGE 1.5 BASIC PROPERTIES OF CHARGE 1.6 COULOMB' S LAW 1.8 ELECTRIC FIELD 1.9 ELECTRIC FIELD LINES 1.10 ELECTRIC FLUX 1.11 ELECTRIC DIPOLE 1.14 GAUSS' S LAW 1.15 APPLICATIONS OF GAUSS' S LAW
2	ELECTROSTATIC POTENTIAL AND CAPACITANCE	2.2 ELECTROSTATIC POTENTIAL 2.3 POTENTIAL DUE TO A POINT CHARGE 2.6 EQUIPOTENTIAL SURFACES 2.11 CAPACITORS AND CAPACITANCE 2.12 THE PARALLEL PLATE CAPACITOR 2.14 COMBINATION OF CAPACITORS 2.15 ENERGY STORED IN A CAPACITOR
3	CURRENT ELECTRICITY	3.4 OHM'S LAW 3.9 ELECTRICAL ENERGY, POWER 3.10 COMBINATION OF RESISTORS 3.11 CELLS, EMF, INTERNAL RESISTANCE 3.13 KIRCHHOFF'S RULES 3.14 WHEATSTONE BRIDGE 3.15 METER BRIDGE 3.16 POTENTIOMETER
4	MOVING CHARGES AND MAGNETISM	4.2 MAGNETIC FORCE 4.5 MAGNETIC FIELD DUE TO A CURRENT ELEMENT, BIOT – SAVART LAW 4.6 MAGNETIC FIELD ON THE AXIS OF A CIRCULAR CURRENT LOOP 4.7 AMPERE'S CIRCUITAL LAW 4.10.1 TORQUE ON A RECTANGULAR CURRENT LOOP IN A UNIFORM MAGNETIC FIELD 4.11 THE MOVING COIL GALVANOMETER
5	MAGNETISM AND MATTER	5.3 MAGNETISM AND GAUSS'S LAW 5.4 THE EARTH'S MAGNETISM 5.5 MAGNETISATION AND MAGNETIC INTENSITY
6	ELECTROMAGNETIC INDUCTION	6.4 FARADAY' S LAW OF INDUCTION 6.5 LENZ ' S LAW AND CONSERVATION OF ENERGY 6.8 EDDY CURRENTS 6.9 INDUCTANCE 6.10 AC GENERATOR

7	ALTERNATING CURRENT	7.2 AC VOLTAGE APPLIED TO A RESISTOR 7.3 REPRESENTATION OF AC CURRENT AND VOLTAGE BY ROTATING VECTORS — PHASORS 7.4 AC VOLTAGE APPLIED TO AN INDUCTOR 7.5 AC VOLTAGE APPLIED TO A CAPACITOR 7.6 AC VOLTAGE APPLIED TO A SERIES LCR CIRCUIT (Analytical Solution not necessary) 7.7 POWER IN AC CIRCUIT: THE POWER FACTOR
8	ELECTROMAGNETIC WAVES	8.2 DISPLACEMENT CURRENT 8.3 ELECTROMAGNETIC WAVES
9	RAY OPTICS AND OPTICAL INSTRUMENTS	9.2 REFLECTION OF LIGHT BY SPHERICAL MIRRORS 9.3 REFRACTION 9.5 REFRACTION AT SPHERICAL SURFACES AND BY LENSES 9.6 REFRACTION THROUGH A PRISM 9.8.1 THE MICROSCOPE
10	WAVE OPTICS	10.2 HUYGENS PRINCIPLE 10.5 INTERFERENCE OF LIGHT WAVE AND YOUNG'S DOUBLE SLIT EXPERIMENT 10.7 POLARISATION
11	DUAL NATURE OF RADIATION AND MATTER	11.3 PHOTOELECTRIC EFFECT 11.6 EINSTEIN'S PHOTOELECTRIC EQUATION: ENERGY QUANTUM OF RADIATION 11.7 PARTICLE NATURE OF LIGHT: THE PHOTON
12	ATOMS	12.4 BOHR MODEL OF THE HYDROGEN ATOM 12.6 DE BROGLIE' S EXPLANATION OF BOHR'S SECOND POSTULATE OF QUANTISATION
13	NUCLEI	13.2 ATOMIC MASSES AND COMPOSITION OF NUCLEUS 13.3 SIZE OF THE NUCLEUS 13.5 NUCLEAR FORCE 13.6 RADIOACTIVITY
14	SEMICONDUCTOR ELECTRONICS: MATERIALS, DEVICES AND SIMPLE CIRCUITS	14.3 INTRINSIC SEMICONDUCTOR 14.4 EXTRINSIC SEMICONDUCTOR 14.7 APPLICATION OF JUNCTION DIODE AS A RECTIFIER 14.9 DIGITAL ELECTRONICS AND LOGIC GATES