

PO & CO

1st BPT Fundamentals of Electrotherapy

CO	PO 1 Clinician	PO 2 Leader and member of health care team	PO 3 communicator	PO 4 Lifelong learner	PO 5 Professional	PO 6 Critical thinker	PO 7 Researcher
CO-1: Define Electricity and explain types of electricity, charged body and its electric field.	3	0	0	0	1	0	1
CO-2: Define transformer and describe types of transformer and its uses in detail.	1	0	0	0	1	0	0
CO-3: Define condenser and describe types, construction, working and uses of condenser.	1	0	0	0	1	0	0
CO-4: Define grid system and describe its construction and working, distribution and advantages.	1	0	0	0	1	0	0
CO-5: Define and describe types of Shock, safety precaution, earthing techniques and management.	3	0	2	0	1	2	0
CO-6: Define magnetism and describe properties of magnetism and electromagnetic induction.	2	0	0	0	0	0	0
CO-7: Define ohms law and describe resistance in series and parallel.	2	0	0	0	0	0	0
CO-8: Define thermionic valve and explain types, principles, construction and working.	2	0	0	0	0	0	0
CO-9: Define fuse and switches and describe mains supply.	2	0	0	0	0	0	0
CO-10: Define resting membrane potential and describe action potential and transmission of impulses.	2	0	0	0	0	0	0
CO-11: Define low frequency current and describe	3	1	0	1	2	1	1

modification, production of faradic and galvanic current.							
CO-12: Classify current and describe Sinusoidal and Current	3	0	0	1	2	1	2
CO-13: Define electrical stimulator and describe types, advantages and disadvantages of electrical stimulator.	3	0	1	1	2	2	2
CO-14: Define Tissue Impedance and describe the principle of application of low frequency current.	3	0	1	1	3	2	1
CO-15: Define TENS and describe types of TENS and electrodes with its advantages and disadvantages.	3	1	1	1	3	1	0
CO-16: Define Medium frequency current and Russian current and describe Principle of Production of IFT and methods of placement of electrodes of IFT.	3	1	1	1	3	1	0
CO-17: Define high frequency current and describe production of SWD with circuit diagram, types of electrodes, construction, working and uses of condenser.	3	1	1	1	3	1	0
CO-18: Define piezoelectric effect and describe production of ultrasound, near and far field.	3	0	0	0	2	0	0
CO-19: Define IRR and describe types, production and effective penetration of IRR.	3	0	0	0	2	0	0
CO-20: Define UVR and describe types, production and effective penetration of UVR.	3	0	0	0	2	0	0
CO-21: Define LASER and describe types, properties production, safety precautions, energy and power density.	3	0	1	0	3	0	1
CO-22: Define electromagnetic spectrum and describe laws governing radiation.	3	0	1	0	0	0	0

CO-23: Define moist heat and describe construction, content, methods of application, physiological and therapeutic uses, indications & contraindications and safety precautions of Hydrocollator pack.	3	0	1	0	3	1	1
CO-24: Define buoyancy and describe construction, content, methods of application, physiological and therapeutic uses, indications & contraindications and safety precautions of Whirlpool bath.	3	0	1	1	3	2	2
CO-25: Define latent heat and describe principle of wax therapy, composition of wax bath, methods of application, physiological and therapeutic uses, indications & contraindications and safety precautions and dangers of Paraffin wax bath.	3	0	2	1	3	2	1
CO-26: Classify modes of transfer of heat and describe construction, methods of application, physiological and therapeutic uses, indications & contraindications and safety precautions of Contrast bath.	3	0	2	1	3	1	1
CO-27: Define cryotherapy and describe principle, methods of application, physiological and therapeutic uses, indications & contraindications and safety precautions of Cryotherapy	3	0	2	1	3	1	1