

Academic Calendar Report

Ms. Marish Memon (Lecturer)

Course:	Medical Physics	Program:	DPT
Batch:	2024-25	Semester/Year:	2nd Year - 3rd Semester

S.No.	Date	Week	Teacher	Description
1	05/05/2026	Week 1	Ms. Marish Memon	ELECTRICITY AND MAGNETISM • Structure of an atom • Electron Theory, Conductors & Insulators • Conduction & Convection
2	06/05/2026	Week 1	Ms. Marish Memon	STATIC ELECTRICITY • Charging by conduction and Induction • Electrostatic Fields • Capacitors, types of capacitors
3	08/05/2026	Week 1	Ms. Marish Memon	STATIC ELECTRICITY • Arrangement of Capacitors in series and parallel • Charging and discharging of capacitors • Oscillating Discharge of Capacitors
4	13/05/2026	Week 2	Ms. Marish Memon	CURRENT ELECTRICITY • Ohm's Law • Electrical Components and their units • Resistance and types • Chemical effects of a Current • Types of Current
5	14/05/2026	Week 3	Ms. Marish Memon	ELECTROMAGNETISM • Magnetic effect of an electric current • Moving coil volt meter and Ammeter • Measurement of high frequency and alternate current with meters • Electromagnetic induction • Faradays law • Mutual and self-Induction • Eddy currents
6	15/05/2026	Week 4	Ms. Marish Memon	ELECTRO MECHANICS • Current for treatment • Rectification • Rectification of A.C • Half wave and full wave Rectification • Valve rectification circuits and metal rectifier • Surging of current • Vibrations and Multivibrators circuit
7	20/05/2026	Week 5	Ms. Marish Memon	LOW FREQUENCY CURRENT • Sinusoidal current • Faradic current • Galvanic current (constant and interrupted) • Diadynamic current TENS • Super imposed current and their graphical representation
8	21/05/2026	Week 6	Ms. Marish Memon	MEDIUM FREQUENCY CURRENT • Interferential current • Russian current. HIGH FREQUENCY CURRENT • Valves • Transistors • Long waves, medium waves short waves micro waves
9	22/05/2026	Week 7	Ms. Marish Memon	SOUND WAVES • Wave motion in sound • Infrasonic • Normal hearing band • Characteristics of the sound waves and their velocities • Ultrasonic • Reflection and refraction of sound waves • Characteristics of tone resonance and beats • Interference of sound waves

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10	16/07/2026	Week 8	Ms. Marish Memon	HEAT • Scales of temperature and its conversion to other scales • Nature of heat energy • Specific heat and three modes of heat energy transfer effect of impurities on melting and boiling points
11	17/07/2026	Week 9	Ms. Marish Memon	ELECTROMAGNETIC RADIATION • Electromagnetic spectrum • Relationship between frequency and wave length • Laws of reflection, refraction and absorptions • Total internal reflection • Cosine law and inverse square law
12	22/07/2026	Week 10	Ms. Marish Memon	ELECTROMAGNETIC RADIATION • Concave and convex mirrors • Lenses and prisms • Reflectors • Radio wave (long, medium, short, micro waves) • Infra-red rays
13	23/07/2026	Week 11	Ms. Marish Memon	ELECTROMAGNETIC RADIATION • Visible rays • Ultra violet rays • X-rays • Nuclear waves (alpha beta and gamma)
14	24/07/2026	Week 12	Ms. Marish Memon	SAFETY IN BIOMEDICAL INSTRUMENTS • Electrical outlets, hot, neutral and ground connections • Pervasiveness of electricity and of electric shocks • Causes of electric shocks and precaution
15	29/07/2026	Week 13	Ms. Marish Memon	SAFETY IN BIOMEDICAL INSTRUMENTS • Effect of electric current on human body • Techniques to reduce the effect of electric shock • Earth shocks and precaution against earth shocks
16	30/07/2026	Week 14	Ms. Marish Memon	RADIATION PROTECTION • Ionizing and non-ionizing radiations • Quantities and associated units of radiations
17	31/07/2026	Week 15	Ms. Marish Memon	RADIATION PROTECTION • effect of ionizing and non-ionizing radiation • Internal and external hazards • Main principle to control external hazard • Distance and shielding
18	05/08/2026	Week 16	Ms. Marish Memon	LAB WORK/PRACTICAL
19	06/08/2026	Week 17	Ms. Marish Memon	LAB WORK / PRACTICAL
20	07/08/2026	Week 18	Ms. Marish Memon	LAB WORK / Practical
21	13/08/2026	Week 19	Ms. Marish Memon	LAB WORK / Practical

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