

NDA PHYSICS SYLLABUS

CHAPTER	SUB TOPIC
PROPERTIES OF MATTER	Physical Properties and states of matter Mass, Weight, Volume, Density and Specific Gravity Principle of Archimedes, Pressure Barometer
MECHANICS	Motion of Objects Velocity and Acceleration Newton's Laws of motion, Force and Momentum Parallelogram of Forces Stability and Equilibrium of bodies, Gravitation, elementary ideas of work Power and Energy
HEAT	Effects of Heat Measurement of Temperature and Heat Change of State and Latent Heat Modes of transference of Heat
SOUND	Sound waves and their properties Simple musical instruments
OPTICS	Rectilinear propagation of light Reflection and Refraction Spherical mirrors and Lenses Human Eye
MAGNET	Natural and Artificial Magnets Properties of a Magnet Earth as a Magnet
CURRENT ELECTRICITY	Static and Current Electricity Conductors and Non - conductors Ohm's Law Simple Electrical Circuits Heating Lighting and Magnetic effects of Current Measurement of Electrical Power
CELLS	Primary and Secondary Cells
X - RAYS	Use of X - Rays

INSTRUMENTS**Simple Pendulum****Simple Pulleys****Siphon****Lever****Balloon****Pumps****Hydrometer****Pressure Cooker****Thermos Flask****Gramophone****Telegraphs, Telephone****Periscope****Telescope****Microscope****Mariner's****Compass:****Lightning****Conductors****Safety Fuses**