

WEEKLY PLAN FOR CLASS XI – PHYSICS (ACADEMIC YEAR 2017- 2018)

MONTH	UNIT NAME	CONTENT
JUNE	Nature of physical world	Physics- scope ,Technology, forces units
	&	Accuracy, Precision ,errors, dimensions
	Measurements	Dimensional analysis-Applications
	Kinematics	Motion- Uniform ,Non uniform
JULY		Scalars ,Vectors, Multiplication of vectors
		Projectile motion, Newton’s laws
		Concurrent forces ,Uniform circular motion
		Work and Energy
		Collisions
AUGUST	Dynamics of Rotational	Centre of mass to radius of gyration
	motion	Theorems of moment of inertia to Conservation of angular momentum
	Gravitation and Space Science	Universal law of gravitation to Orbital velocity
		Weightlessness to Origin of universe
SEPTEMBER	Mechanics of Solids & fluids	States of matter- inter molecular forces
OCTOBER	Mechanics of Solids & Fluids	Solids- elastic behavior to applications
		Pressure due to fluid column to surface tension

		Viscosity- Stokes law-Bernoulli's theorem
		Periodic motion, SHM, Oscillations of a Spring
NOVEMBER	Oscillations	Oscillations of liquid column, simple pendulum, Energy in SHM, Oscillations -types, Resonance
	Wave Motion	Types of waves to Laplace's correction
		Superposition to Doppler effect
	Heat & Thermodynamics	Kinetic Theory of gases to Meyer's relation
DECEMBER		First law of thermodynamics to isothermal and Adiabatic Process
JANUARY '18	Heat & Thermodynamics	Carnot's engine to Pyrheliometer
		Reflections to Michelson's method
	Ray Optics	Refractions in Spherical lenses
		Refraction in prism to spectrometer, rain bow
FEBRUARY '18	Magnetism	Magnetic dipole to Hysteresis
	REVISION & MODEL EXAMINATION	
MARCH '18	COMMON EXAMINATION	