MAYO COLLEGE
Academic Curiculum - 2021-22
Subject - Physics
CLASS – XII

ASSESSMENT 1	ASSESSMENT 2	HALF YEARLY	PRE BOARDS
Unit-II Current Electricity	Unit- III Magnetic Effects of Current (Remaining portion) and Magnetism	Unit–VII Dual Nature of Radiation and Matter	**Complete Syllabus**
Unit–I Electrostatics	Unit-IV Electromagnetic Induction& Alternating Currents	Unit–VIII Atoms and Nuclei	
Unit- III Magnetic Effects of Current (till Ampere's Circuital Law)	Unit–V Electromagnetic Waves	Unit–IX Electronic Devices	
	Unit–VI Ray & Wave Optics	Syllabus of Periodic Assessment 1 & 2	

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CLASS – XI

ASSESSMENT 1	ASSESSMENT 2	HALF YEARLY	FINALS
Mathematical Tools	Kinematics	Gravitation	Half Yearly syllabus
Physical World & Measurement	Laws of Motion	Properties of Bulk Matter	Thermodynamics
Kinematics (till Vectors)	Work, Energy & Power	Syllabus of Periodic Assessment 1 & 2	Behaviour of Perfect gas & Kinetic theory of gases
	Motion of System of particles & Rigid Body		Oscillations & Waves

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CLASS – X

PERIODIC ASSESSMENT – 1	PERIODIC ASSESSMENT - 2	PERIODIC ASSESSMENT – 3	PRE BOARD
How Things Work: Effects of Current Electric current, Potential difference, Ohm's law; Resistance, Factors affecting resistance, Concept of Resistivity, Series & Parallel combination of Resistors and its applications, Heating effect of electric current and its applications, Electric power, Interrelation between P, V, I and R.	Natural Phenomena: Light - Reflection & Refraction Reflection of Light & Laws of Reflection, Images formation by Spherical Mirrors, Mirror formula & Magnification, Refraction of Light & Laws of Refraction, Refractive Index, Refraction of Light through Glass Slab, Image formation by Spherical Lenses, Lens formula & Magnification,Power of a lens.	Human Eye & Colourful World Refraction of light through a Glass Prism, Dispersion of light, Atmospheric Refraction & its effects, Scattering of light & applications in daily life.	**Recap of all the Concepts covered**
Magnetic effects of current Magnetic field & field lines, Field due to a current carrying conductor, Field due to current carrying coil or Solenoid, Force due to Magnetic field, Fleming's Left Hand Rule, Electric Motor, Electromagnetic Induction, Fleming's Right Hand Rule, Electric Generator, Direct current v/s Alternating current, Domestic Electric Circuits.	Human Eye & Colourful World Human Eye: Parts & their functions, Defects of Vision and their corrections.	Natural Resources: Sources of Energy: Different forms of Energy, Conventional and Non-conventional Sources of Energy, Fossil Fuels, Hydroelectric Power Plant, Biogas, Wind, Solar Energy, Energy from Sea, Geothermal Energy, Nuclear Energy, Renewable v/s Non-renewable Sources of Energy.	

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CLASS – IX

ASSESSMENT 1	ASSESSMENT 2	HALF YEARLY	FINALS
<u>Motion</u> Rest v/s Motion, Distance v/s Displacement, Speed v/s Velocity, Acceleration, S-t & v-t Graphs, Derivation of Equations of Motion (Graphical), Uniform Circular Motion	<u>Force and Laws of Motion</u> Newton's III law of motion, Law of conservation of momentum & its applications	<u>Floatation</u> Thrust and Pressure, Buoyancy & Floatation, Archimedes' Principle, Relative Density	<u>Sound</u> Nature of Sound and its propagation in various media, Speed of Sound, Reflection of Sound, Echo and Reverberation, Range of Hearing, Ultrasound & its Applications, Structure of Human Ear
<u>Force and Laws of Motion</u> Force & its Effects, Balanced & Unbalanced Forces, Inertia & its types, Newton's I Law of Motion, Concept of Momentum, Newton's II Law of Motion	<u>Gravitation</u> Universal Law of Gravitation, Acceleration due to Gravity, Factors affecting Gravity, Motion under Gravity, Mass v/s Weight	<u>Work, Energy & Power</u> Work done by a Force, Energy & its Types, Kinetic and Potential Energy, Law of Conservation of Energy, Power & Commercial Use of Energy	<u>Recap of all the Concepts covered</u>

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CLASS – VIII

ASSESSMENT 1	ASSESSMENT 2	HALF YEARLY	FINALS
FORCES IN ACTION Concept of Density – Measurement & Calculation	ELECTRICITY Static Electricity, Concept of Charge	ENERGY Different forms of Energy, Fossil Fuels, Renewable & Non-renewable Sources	Recap & Testing of Concepts covered in Classes VI, VII & VIII
Concept of Pressure – Calculation	Conductors v/s Insulators, Circuit Diagrams	Concept of Heat & Temperature	
Pressure in Gases & Liquids	Concept of Electric Current, Voltage and Resistance	Transfer of Heat: Conduction, Convection & Radiation	
Torque – Turning effect of Force, Principle of Moments & Calculation	Series and Parallel Circuits	Evaporation	