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| Month  Physics | Chapter | | Period | Activity Topics | P.T.  (M.T) |  |  | Marks | | |
| 1ST  TERM | 2ND  TERM | 3RD  TERM |
| APRIL  MAY  JUNE  JULY  AUGUST  SEPTEMBER  OCTOBER  NOVEMBER  DECEMBER  JANUARY  FEBRUARY  MARCH | | Chapter 1 Physical world chapter 2  Chapter 2 Units and measurement  Practical 1  Chapter 3  Practical 2  Chapter 4 Motion in a plane  Chapter 5 laws of motions  Practical 3  Chapter 6 work energy and power  Practical 4  Chapter 7 System of particles And rotational motion  Chapter 8 Gravitation  Practical 5  Chapter 9 mechanical properties of Solid  Chapter 10 mechanical properties of fluid  Chapter 11 Thermal properties of matter  Chapter 12 Thermodynamics  Chapter 13 kinetic Theory  Practical 6  practical 7  Chapter 14 Oscillation  Practical 8  Chapter 15 waves  Practical 9  Practical 10  Practical 11  practical 12 | Period  1  Period 3  Period2  10  2  8  14  2  9  2  14  2  8  7  7  12  5  2  2  13  2  13  2  3  3  4 | What is physics, scope and excitement of physics, Physics technology and Society ,fundamental forces is in nature  Introduction, The international system of units ,measurement of length, measurement of mass, measurement of time ,accuracy, significant figures, Dimension of physical quantities , dimensional formula And dimensional equation , dimensional analysis and its applications.  Use of vernier caliper, Measure diameter of a small spherical cylindrical body, measure the dimensions of a given Regular body.  Introduction, position ,path ,length And displacement, average, velocity and average speed , Instantaneous velocity and the speed, acceleration, kinematic equations for uniformly accelerated motion, relative velocity  Use of a screw gauge to measure diameter of a given wire, measure thickness of your given seat and determine volume of an irregular lamina.  Introduction , scalar and Vector multiplication of vectors by real numbers ,addition and subtraction of vector , graphical method , A resolution of vector , Vector addition, analytical Method, motion in a plane, motion in a plane with constant acceleration, relative velocity in two Dimensions Projectile motion ,uniform circular motion .  Introduction, Aristotle’s Fallacy, the law of Inertia ,Newton's first law of motion , Newton's second law of motion , Newton's third law of motion , Conversion of momentum , equilibrium of a particle , Common forces in mechanics, circular motion , solving problem in mechanics,  Determine the radius of curvature of a given spherical surface by a spherometer  Introduction, notion of work kinetic energy, the work energy theorem, Work ,kinetic energy, work done by variable Forces, the work energy theorem for a variable Force potential energy, Mechanical energy, the potential energy of the spring ,Various form of energy, the law of conversation Power , Collisions.  To determine mass of two different objects using a beam balance  Centre of mass linear momentum of system of a particle vector product of two vectors angular velocity Torque angular momentum MI, TH of perpendicular and Parallel axis rolling theorem  Kepler's law law of gravitation acceleration due to gravity at various position Escape speed Earth satellite geostationary satellite weightlessness  Measurement of the weight of a given body (wooden block) Using a parallelogram law of vector addition .  Elastic behaviour of solids, A stress and strain , Hooke’s law, stress-strain, curve Elastic moduli , application of elastic behaviour of material  Pressure, streamline flow, Bernoulli's principle , viscosity , surface tension.  Temperature and heat , measurement of temperature, ideal - Gas equation and absolute temperature, thermal expansion, specific heat capacity , Calorimetry , change of a state, heat transfer, Newton's law of Cooling.  Thermal equilibrium ,Zeorth law of Thermodynamics , heat internal energy and work, first law of thermodynamics , specific heat capacity.Thermodynamic , state variables and equation of a state , thermodynamic process, heat engine, Refrigerator and heat pump ,Second law thermodynamics ,Reversible and irreversible process ,Carnot engine.  Molecular nature of matter ,behaviour of gases, kinetic theory of an ideal gases, Law of equipartition of Energy, specific heat capacity, mean free path .  Using simple pendulum plot L-T and L-T2graphs, Hence find Effective length of Second pendulum using appropriate graph.  To study the relation between force of Limiting friction and normal reaction And to find the coefficient of friction between surface of a moving block And that of a Horizontal surface  Periodic and oscillatory motion SHM force law Energy in SHM Damped SHM force oscillation and Resonance  To find the force constant and effective mass of a helical spring by plotting T 2 = m graph using method of oscillation.  Transverse and longitudinal wave , displacement relations in progressive wave, the speed of a travelling wave , the principle of superposition of waves , reflection of waves, beats, Doppler effect.  To study the variation in volume ( V) with Pressure ( P ) for a sample of air.  Revision  1St Term Exam  To determine Young's Modulus of elasticity of the material of a given wire.  To find the force constant of a helical spring by plotting a graph between load and extension.  To study the relationship between frequency and length of a given wire under constant tension using a sonometer.  Revision  Pre – Board exam  Mock test  Mock test, Revision  Board exam |  | Oral questions based on solution MCQ preparations of solution of a physical world  Oral test some activity Drawing graph  Going through geometric concept ,Some problems Cross check the students.  Oral and test activity related with Momentum  Oral question based on energy  Oral and test activity based on centre of mass  Oral question and answer  Oral and lab activity work related to elasticity  Oral and some experiment  oral question and answer  oral question and answer  oral question and answer  oral question and answer  oral question and answer | Activity some example from daily life, natural motion, what happened if motion is not present .  Activity make a inclined plan and see the motion  Activity Effect of mass and velocity related with Momentum  Activity path dependent work  Make an experiment to check the importance of gravitational force .  Activity with the help of spring balance or some other elastic Behaviour.  Activities some experiment to demonstrate thermodynamics  Activity experiment with simple pendulum  Activity in the experiment of sonometer wave should be Demonstrated. | 1  2  6  8  6  5  5  7  4  5  4  4  3  5  5 | 1  2  6  8  6  5  5  7  4  5  4  4  3  5  5 | 1  2  6  8  6  5  5  7  4  5  4  4  3  5  5 |

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| Portion for Monday test :-  M.T. : -01 (2920/05/2024) Portions :- Unit 8 Dimension.  M.T. :- 02 ( 22/07/2024) Portions :- ch- 1,2,3,4,5  M.T. :- 03 ( 02/12/2024)  Portions :- Motion in one dimensionch- 11,12,13 and two dimension ch - 14  M.T. :- 04 ( 21/10/2024) Portions :- ch – 6, 7, 8, 9, 10 | | Portion for Unit test :-  Portions of UT – 01 [ ] Chapter - 1,2,3,4  Portions of UT – 02 [ ] Chapter - 5,6,7,8  Portions of UT – 03 [ ] Chapter - 9, 10, 11  Portions of UT – 04 [ ] Chapter - 12, 13, 14 | |
| Portion for terminal exm :-  1ST TERM EXM :  Chapter – 1 to 7 | MID TERM EXM / Pre- Board  Chapter - 8 to 10 | | Final Term  Chapter 1 to 14 |