SANT NANDLAL SMRITI VIDYA MANDIR, GHATSILA

YEARLY SYLLABUS OF PHYSICS

SESSION: 2025-26

STD. XI

SL	Month	DAY	WEEK	Chapter	PRACTICALS/ ACTIVITIES	Learning out come/ASSESSMENT	Value imparted
1	April	21	1st 2nd 3rd 4th	1) Physical world and measurement. 2) kinematics 3) Properties of bulk matter	1.Determination of diameter of sphere/cylinder by using slide callipers 2.Measuring of diameter/area of cross-section of a wire. 3.Measuring of volume of irregular lamina by using screw gauge 4.Measuring of radius of curvature of spherical surface	Distinguish between Rest and Motion Distinguish between point mass and a body. Define the definitions of different kinds of motion. Define 1-D, 2-D and 3-D motions with real life examples. Solve numerical based on accelerated motion.	Helpful, Honest scientific knowledge
2	MAY JUNE	9 11	1st 2nd 3rd 4th	1)kinematics 2) Properties of bulk matter	5.Measuring of mass by using beam balance 6.Measuring of wt. Using ll-m app. 7.Using pendulum plotting of L-T AND L-T2 GRAPH	**TOPICS OF assessment-** 1. UNITS AND DIMENSION 2.NEWTON LAWS OF MOTION AND APPLICATION.	General awareness; concerned for others
3	July	26	1st 2nd 3rd 4th	1) laws of motion 2) Properties of bulk matter	8.Study of time pd. Wrt. Length of pendulum 9.Determination of coef. Of limiting friction 10.Study of angle of inclination and force of friction along an inclined plane 11.Determination of Young's mod of a wire.	**TOPICS OF assessment-** 1.MOTION IN PLANE 2.PROPERTIES OF MATTER.	Ability to act quickly; scientific knowledge

4	July	26	1st 2nd 3rd 4th	1) laws of motion 2) Properties of bulk matter	8.Study of time pd. Wrt. Length of pendulum 9.Determination of coef. Of limiting friction 10.Study of angle of inclination and force of friction along an inclined plane 11.Determination of Young's mod of a wire.	**TOPICS OF assessment-** 1.MOTION IN PLANE 2.PROPERTIES OF MATTER.	Ability to act quickly; scientific knowledge Knowledge sharing; scientific measurement
5	Sept	21	1st 2nd 3rd 4th	REVISION Half-yearly exam			
6	Oct	18	1st 2nd 4th	1) Gravitation 2)Motion of system of particles and rigid bodies	15. Study of relationship between temperature of a hot body and time by plotting cooling curve. 16. Determination of specific heat capacity of solid.	Planetary motion and their time period. Students will be interested in astronomical physics. **TOPICS OF assessment-** 1.NEWTONS LAW OF GRAVITATION	Scientific specification between two physical quantities; knowledge sharing
7	Nov	23	1st 2nd 3rd 4th	01. Oscillation 02.Motion of system of particles and rigid bodies 03. Heat Periodic test 2nd Pre term	17. Study of frequency and length by using sonometer	Student s will be interested to measure {g} and to measure heat energy **TOPICS OF assessment-** 1.CENTRE OF MASS AND CENTRE OF GRAVITY.	Knowledge sharing ;queries to ask question
8	Dec	19	1st 2nd 3rd	1.Wave 2. Thermodynamics	18. Study of tension and length for constant frequency by using konometer. 19. Determination of speed of sound by using resonance tube	Differences between different waves ;characteristics of different waves, **TOPICS OF assessment-** 1.OSCILLATIONS	Concern about nature ;sharing ability; caring nature

9	Jan	22	1st 2nd 3rd 4th	01. kinetic theory of gas 02. Thermodynamics	Revision	Properties of gas' behaviour of gas molecules' ;pressure exerted by gas molecules **<u>TOPICS OF assessment-</u>** 1.WAVES.	Same as stated above
10	February	22	1st 2nd 3rd 4th	Revision Final term from 27th Feb	Revision		

Subject Teachers - 1. Mr. Tapan Mahata **Principal**

2. Mr. S .S. Jana