

KENDRIYA VIDYALAYA SANGATHAN, KOLKATA REGION
SPLIT UP SYLLABUS (2019-20)
CLASS –XI SUBJECT - PHYSICS (THEORY& PRACTICAL)

MONTH	UNIT & CHAPTER	MARKS	PERIODS ALLOTTED	PRACTICAL	EXAM TENTATIVE DATE
JUNE, 2019	1. Physical World & Measurement	23	10	1. To measure diameter of a small spherical/ cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.	
JULY, 2019	Contd...Measurement 2. Kinematics (Motion in straight line & Plane)		24	2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. 3. To determine volume of an irregular lamina using screw gauge. 4. To determine radius of curvature of a given spherical surface by a Spherometer ACTIVITY -1 AND ACTIVITY -2	
AUG, 2019	3. Laws of Motion		14	5. To find the weight of a given body using parallelogram law of vectors 6. To study the relationship between force of limiting friction and normal reaction and to find the co-efficient of friction between a block and a horizontal surface. ACTIVITY -3	
	4. Work, Energy & Power	17	12	7. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination θ by plotting graph between force and $\sin \theta$	
SEPT, 2019	Work, Energy & Power Contd... 5. Motion of System of particles & Rigid Body		18	8. To determine the mass of two different objects using a beam balance 9. Using a simple pendulum, plot its $L-T^2$ graph and use it to find the effective length of second's pendulum 10. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result	

OCT, 2019	6.Gravitation		12	10.To determine Young's modulus of elasticity of the material of a given wire.	
	7.Properties of Bulk Matter(SOLID)	20	8	12. To find the force constant of a helical spring by plotting a graph between load and extension ACTIVITY -4	
NOV, 2019	Contd...Properties of Bulk Matter(FLUID) Revision (Half Yearly Syllabus)		8	13.To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body 14. To determine the surface tension of water by capillary rise method. 15. To determine specific heat capacity of a given solid by method of mixtures.	HALF YEARLY (UNIT-1 TO 6) (4-9,November, 2019)
DEC, 2019	Contd...Properties of Bulk Matter(THERMAL PROPERTIES)		8	16.To study the relationship between the temperature of a hot body and time by plotting a cooling curve 17.To study the relation between frequency and length of a given wire under constant tension using sonometer.	
	8.Thermodynamics		12		
JAN, 2020	9.Behaviour of Perfect Gas & Kinetic Theory of gases			8	18.To study the relation between the length of a given wire and tension for constant frequency using sonometer 19. To find the speed of sound in air at room temperature using resonance tube. 20. To study the relation between frequency and length of a given wire under constant tension using sonometer.
	10.Oscillations & Waves	10	26	ACTIVITY -5	
FEB, 2020	Waves Revision..... PRACTICAL EXAM.			YEARLY EXAMINATION (PRACTICAL) FROM 14 – 20, FEB- 2020 Minimum 15 experiments(at least 6 from each section),5 Activities(min 2 from each section) and 1 investigatory project[30 MARKS]	
	TOTAL	70	160	YEARLY EXAMINATION(THEORY-70 MARKS) FROM 1 ST WEEK OF MARCH 2020[FULL SYLLABUS]	

NOTE: As per CBSE Curriculum (2019-2020) 15 experiments [with a minimum of 6 from each section] has to be performed by students & at least 5 activities [with a minimum of 2 Activities each from section A and section B], should be demonstrated by teacher .Mentioned experiments are for reference only. Teacher may choose any 15 experiments from the list of practical provided by CBSE (2019-2020).

EXAMINATION PATTERN (CLASS-XI -Physics) 2019-2020

EXAM→	PERIODIC TEST	HALF YEARLY & YEARLY EXAM	PRACTICAL EXAMINATION
DURATION→	90 MINS	3- HRS	3-HRS
PATTERN OF QUESTIONS→	15x1=15 5x2= 10 5x3=15 2x5=10	20X1=20 7X2=14 7X3=21 3X5=15	1)TWO EXPERIMENTS(ONE FROM EACH SECTION)= 2X8 =16 2) RECORD (EXPT+ACTIVITY) =06 3) INVESTIGATORY PROJECT =03 4)VIVA =05
MARKS→	50 MARKS(27 QUESTIONS)	70 MARKS(37 QUESTIONS)	(30 MARKS)

Passing Criterion:

	THEORY				TOTAL	PRACTICAL (S.E. EXAM)	TOTAL
	PT-1	PT-2	HALF YLY	S.E.EXAM			
M. MARKS	50	50	70	70		30	
WEIGHTAGE	10	10	30	35	85	15	100
MINIMUM PASSING MARKS	Student must secure 33% marks in theory and practical separately for promotion.				28	05	33