

**KENDRIYA VIDYALAYA SANGATHAN, KOLKATA REGION**

**SPLIT - UP SYLLABUS (2017-18)**

**CLASS –XI SUBJECT - PHYSICS (THEORY& PRACTICAL)**

MONTH	W. Day	UNIT & CHAPTER	WTGE (H.Y)	WTGE (YEARLY)	PERIODS ALLOTTED As per CBSE	PRACTICAL	EXAM(UNIT) TENTATIVE DATE
JUNE	7	1.Physical World & Measurement	07	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	1 <sup>ST</sup> PERIODIC TEST OF 40 MARKS. UNIT 1 TO 3
JULY	25	Contd...Measurement 2.Kinematics (Motion in straight line & Plane)	18		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	
AUG	25	3.Laws of Motion	15		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.	
		4.Work, Energy & Power	11	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 $\theta$ by plotting graph between force and $\sin\theta$	HALF YEARLY (UNIT-1 TO 6) THEORY 70 MARKS	
SEPT	19	Work, Energy & Power Contd... 5.Motion of System of particles & Rigid Body	11	17	18	8.To determine the mass of two different objects using a beam balance 9.Using a simple pendulum, plot its L-T <sup>2</sup> 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	NOTE: PRACTICAL EXAM FOR H.Y SHOULD BE COMPLETED BY 15 <sup>TH</sup> NOV[30 MARKS]
OCT	20	6.Gravitation	08		12	10.To determine Young's modulus of elasticity of the material of a given wire.	
		7.Properties of Bulk Matter(SOLID)	NA	20	8	12. To find the force constant of a helical spring by plotting a graph between load and extension	2 <sup>ND</sup> PERIODIC TEST (UNIT 7 TO 9) [40 MARKS]
NOV	24	Contd...Properties of Bulk Matter(FLUID) Revision ..... (Half Yearly Syllabus)	NA		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.	
DEC	18	Contd...Properties of Bulk Matter(THERMAL PROPERTIES) 8.Thermodynamics	NA		8 12	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	
JAN	23	9.Behaviour of Perfect Gas & Kinetic Theory of gases	NA	10	8	18.To study the relation between the length of a given wire and tension for constant frequency using sonometer	
		10.Oscillations & Waves			15	19.To find the speed of sound in air at room temperature using resonance tube by two resonance positions	
FEB 15TH	11	CONT...Oscillations & Waves Revision.....	NA		11	<b>YEARLY EXAMINATION (PRACTICAL) FROM 3<sup>RD</sup> WEEK OF FEB2017</b> <b>Minimum 15 experiments( at least 6 from each section),5 Activities(min 2 from each section) and 1 investigatory project[ 30 MARKS]</b>	
		TOTAL		70	160	<b>YEARLY EXAMINATION(THEORY-70 MARKS)FROM 1<sup>ST</sup> WEEK OF MARCH 2017[FULL SYLLABUS]</b>	

## EXAMINATION PATTERN (CLASS-XI -Physics) 2017-2018

EXAM→	<b>PERIODIC TEST</b>	<b>HALF YEARLY &amp; YEARLY EXAM</b>	<b>PRACTICAL EXAMINATION</b>
DURATION→	90 MINS	3- HRS	3-HRS
PATTERN OF QUESTIONS→	4X1=04(NO OPTION) 2X2=04(ONE OPTION) 6X3=18(ONE OPTION) 1X4=04(VALUE BASED) 2X5=10(OPTION IN ALL)	5X1=05(NO OPTION) 5X2=10(ONE OPTION) 12X3=36(ONE OPTION) 1X4=04(VALUE BASED) 3X5=15(OPTION IN ALL)	1)TWO EXPERIMENTS(ONE FROM EACH SECTION )= 2X8 =16 2) RECORD (EXPT+ACTIVITY) =06 3) INVESTIGATORY PROJECT =03 4)VIVA =05
MARKS→	<b>40MARKS(15 QUESTIONS)</b>	<b>70 MARKS(26 QUESTIONS)</b>	<b>(30 MARKS)</b>