



D.A.V.PUBLIC SCHOOL, NEW PANVEL

Plot No. 267, 268, Sector-10, New Panvel,

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SYLLABUS PLAN 2017-2018

SUBJECT- PHYSICS

STD:XI

Month	No. of Working Days	Units	No. of Periods	Weightage
APRIL	7	<u>VOL I - UNIT 1:</u> <u>PHYSICAL WORLD</u> <u>AND</u> <u>MEASUREMENT</u>	2	3
		Chapter : 1 Physical World	5	5
		Chapter : 2 Unit and Measurement	8	
JUNE	24	<u>UNIT 2 :</u> <u>KINEMATICS</u>	9	5
		Chapter :4 Motion in a plane	12	10
		<u>UNIT 3 : LAWS OF</u> <u>MOTION</u>	5	6
		Chapter : 5 Laws of Motion	5	
		<u>UNIT 4 :</u> <u>WORK,ENERGY</u> <u>AND POWER</u>		
		Chapter :6 Work, Energy & Power(CONT)		
		Revision & I Unit Test		

Month	No. of Working Days	Units	No. of Periods	Weightage
JULY	25	<u>UNIT 4 :</u> <u>WORK,ENERGY AND POWER</u> Chapter :6 Work, Energy & Power	5	6
		<u>UNIT 5 : MOTION OF SYSTEM OF PARTICLES & RIGID BODY</u> Chapter : 7 System of Particles & Rotational motion	12	
		<u>UNIT 6 :</u> <u>GRAVITATION</u> Chapter :8 Gravitation)	10	
AUGUST	17	<u>VOL II - UNIT 7:</u> <u>PROPERTIES OF BULK MATTER</u> Chapter:9 Mechanical Properties of Solids or Elasticity	7	10
		<u>UNIT 7:</u> <u>PROPERTIES OF BULK MATTER Contd.)</u> Chapter: 10 Mechanical Properties of Fluids	13	
SEPTEMBER	22	<u>UNIT 7:</u> <u>PROPERTIES OF BULK MATTER Contd.)</u> Chapter: 10 Mechanical Properties of Fluids Revision and Term Exam	5 15	

Month	No. of Working Days	Units	No. of Periods	Weightage
OCTOBER	12	Chapter: 11 Thermal properties of matter	9	5
		<u>UNIT 8</u> <u>:THERMODYNAMICS</u> Chapter :12 Thermodynamics	6	
NOVEMBER	24	<u>UNIT 8</u> <u>:THERMODYNAMICS</u> Chapter :12(CONT) Thermodynamics	5	10
		<u>UNIT 10: OSCILLATIONS & WAVES</u> Chapter : 14 Oscillation	14	
		Revision And II Unit test	8	
DECEMBER	23	<u>UNIT 10: OSCILLATIONS & WAVES (CONT)</u> Chapter : 14 Waves	3	5
		<u>UNIT 9: BEHAVIOUR OF PERFECT GAS & KINETIC THEORY</u> Chapter : 13 Kinetic Theory Of Gases Revision for Preliminary Examination	10 15	
JANUARY	24	Revision and Preliminary Exam	15	
FEBRUARY	18	Revision and Annual examination.	10	
TOTAL	196		204	70



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SYLLABUS PLAN (2017-18)

PRACTICAL

SUB: Physics Practical

STD: XI

Month	no. of Periods For Practical	Experiment/Topic	Activity(demonstration)
APRIL	01	To measure diameter ,internal diameter &depth of spherical/cylindrical, beaker/calorimeter using Vernier calipers	To study the variation in range of a jet of water with angle of projection.
JUNE	04	To measure diameter ,thickness volume of given wire, sheet and irregular lamina using Screw gauge. To determine radius of curvature of a given spherical surface by a spherometer.	To determine mass of a given body using a meter scale by principle of moments
JULY	04	To find the weight of a given body using parallelogram law of vectors. 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. To find the force constant of a helical spring by plotting graph between load and extension Using simple pendulum, plot graphs. hence find the time period of the pendulum of different masses.	To study the conservation of energy of a ball rolling of a roller on inclined plane.(using a double inclined plane).

Month	No. of Periods For Practical	Experiment/Topic	Activity(demonstration)	Remark	Signature
AUGUST	02	Using simple pendulum, plot L-T and L-T ² graphs. hence find the effective length of the pendulum	To study the effect of load on depression of a suitably clamped meter scale loaded 1)at its end 2)in the middle		
SEPTEMBER	02	To find the speed of sound in air at room temperature using a resonance tube by two resonance positions			
OCTOBER	02	To determine the coefficient of viscosity of a given viscous liquid by measuring the terminal velocity of a given spherical body. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.	Effect of pressure on boiling and melting point <i>Relegation of ice</i> To observe change of state and plot a cooling curve for molten wax.		
NOVEMBER	03	To study the relation between frequency and length of a given wire under constant tension, constant frequency using sonometer. To study the relation between frequency and length of a given wire under constant length using sonometer	To study the effect of detergent on surface tension by observing capillary rise		
	No. of Periods For				

Month	Practical	Experiment/Topic	Activity(demonstration)	Remark	Signature
DECEMBER	02	To determine the surface tension of water by capillary rise method.			
JANUARY	04	Revision Practical & Preliminary Exam			
FEBRUARY		Revision Practical & Annual Exam			
Total	24				