



## D.A.V. PUBLIC SCHOOL, NEW PANVEL

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

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### SYLLABUS PLAN FOR 2017-18

**SUBJECT: Physics**

**CLASS – XII**

Month	No. of Working Days	Topics	No. of Periods	Weightage
March	7	<b><u>VOL II UNIT I:</u></b> Chapter:12 Atoms	4	3
		Chapter:13 Nuclei	4	3
April	22	<b><u>VOL II UNIT VIII</u></b> Chapter: 11 Dual Nature of matter	8	4
		<b><u>VOL II UNIT II</u></b> Chapter:9 Ray Optics	17	7
June	24	Chapter:10 Wave Optics	14	7
		<b><u>VOL I UNIT III</u></b> Chapter:1 Electric charges and field	13	4
July	25	Revision & I Unit Test	6	-
		Chapter:2 Electrostatic potential and capacitance	10	4
		<b><u>VOL I UNIT IV</u></b> Chapter :3 Current Electricity	12	7
August	17	<b><u>VOL I UNIT V</u></b> Chapter :4 Magnetic Effect of Electric Current	12	4
		Chapter :5 Magnetism	8	4

September	22	<b><u>VOL I UNIT VI</u></b> Chapter: 6 Electromagnetic induction  Revision and 1 <sup>st</sup> terminal Examination	10  21	4  -
October	12	Chapter: 7 Alternating Current and Electrical machines  <b><u>VOL I UNIT VII</u></b> Chapter: 8 Electromagnetic Waves	10  5	4  3
November	24	<b><u>VOL II UNIT IX</u></b> Chapter :14 Electronic Devices  <b><u>VOL II UNIT X</u></b> Chapter :15 Communication  Revision for Preparatory Examination Preparatory Examination	10  5  10 4	7  5  - -
December	23	Preparatory Examination (contd)  Revision for Preliminary Examination	11  15	-
January	24	Preliminary Examination  Revision for Annual Examination	14  13	-  -
February	12	Revision for Annual Examination	15	-
Total Days	212		251	70



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### SYLLABUS PLANNING (2017-2018)

#### PRACTICAL

SUB:Physics

Std: XII

Month	No. of Periods For Practical	Experiment/Topic
MARCH	-	-
APRIL	4	<p>Activity 1: To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.</p> <p>Activity 2: To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.</p> <p>Activity 3: To study the nature and sizes of the image formed by convex lens and concave mirror.</p> <p>Activity 4: To observe Polarization of light using two Polaroids.</p>
JUNE	6	<p>Experiment 1: To find the focal length of a convex lens by plotting graphs between <math>u</math> and <math>v</math> or between <math>1/u</math> or <math>1/v</math>.</p> <p>Experiment 2: To find the value of <math>v</math> for different values of <math>u</math> in case of a concave mirror and to find the focal length.</p> <p>Experiment 3: To determine angle of minimum deviation for a given prism.</p>
JULY	8	Experiment 4: To determine refractive

		<p>index of a glass slab using a travelling microscope.</p> <p>Experiment 5: To find refractive index of a Liquid by using (i) concave mirror,(ii)convex lens and plane mirror.</p> <p>Experiment 6: To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.</p>
AUGUST	8	<p>Experiment 7: To determine resistance of a galvanometer by half deflection method and to find its figure of merit.</p> <p>Experiment 8: To convert galvanometer into ammeter and voltmeter.</p> <p>Experiment 9: To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material.</p>
SEPTEMBER	2	<p>Experiment 10: To verify the laws of combination of resistances using a meter bridge.</p> <p>Activity 5: To study the variation in potential drop with length of a wire for a steady current.</p> <p>Activity6: To study use of multimeter.</p>
OCTOBER	4	<p>Experiment 11: To compare the emf of two given primary cells using potentiometer.</p> <p>Experiment 12: To determine the internal resistance of given primary cell using potentiometer.</p>
NOVEMBER	4	<p>Experiment 13:To draw I-V characteristic of a pn junction diode.</p> <p>Experiment 14:To draw the characteristic curve of a zener diode and to determine its reverse break down</p>

		voltage.
DECEMBER	4	Experiment 15:To study the characteristic of a common emitter npn transistor.
JANUARY	6	Revision Practicals
Total		