



**D.A.V. PUBLIC SCHOOL, NEW PANVEL**  
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**SYLLABUS PLAN FOR 2018-19**

**SUBJECT: Physics**

**CLASS – XII**

Month	No. of Working Days	Topics	No. of Periods	Weightage
March	8	<b><u>VOL II UNIT IX</u></b> Chapter :14 Electronic Devices	11	7
April	23	<b><u>VOL II UNIT II</u></b> Chapter:9 Ray Optics	16	7
		Chapter:10 Wave Optics	10	4
June	20	Wave Optics (contd)	7	3
		<b><u>VOL I UNIT IV</u></b> Chapter :3 Current Electricity	10	7
		Revision	5	
July	23	I Unit Test	6	
		<b><u>VOL I UNIT III</u></b> Chapter:1 Electric charges and field	10	4
		Chapter:2 Electrostatic potential and capacitance	9	4

Month	No. of Working Days	Topics	No. of Periods	Weightage
August	18	<b><u>VOL I UNIT V</u></b> Chapter :4 Magnetic effect of electric current	13	4
		Chapter:5 Magnetism	13	4
September	19	<b><u>VOL II UNIT VIII</u></b> Chapter: 11 Dual Nature of matter	6	4
		Revision and 1 <sup>st</sup> terminal Examination	14	
October	24	<b><u>VOL I UNIT VI</u></b> Chapter: 6 Electromagnetic induction	9	4
		Chapter: 7 Alternating Current and Electrical machines	9	3
		<b><u>VOL I UNIT VII</u></b> Chapter: 8 Electromagnetic Waves	5	3
		<b><u>VOL II UNIT I:</u></b> Chapter:12 Atoms	5	3
November	15	Chapter:13 Nuclei	4	3
		<b><u>VOL II UNIT X</u></b> Chapter :15 Communication	5	5
		Revision for Preparatory Examination Preparatory Examination	7	
December	19	Preparatory Examination (contd) Revision for Preliminary Examination	9	-
		Preliminary Examination	12	
January	23	Revision for Annual Examination	13	-
			13	
February	12	Revision for Annual Examination	12	
Total	209		235	70



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## SYLLABUS PLANNING (2018-2019)

### PRACTICAL

SUB:Physics

Std: XII

Month	No. of Periods For Practical	Experiment/Topic
JUNE	8	Experiment 1: To draw I-V characteristic of a pn junction diode. Experiment 2: To draw the characteristic curve of a zener diode and to determine its reverse break down voltage Experiment 3: To study the characteristic of a common emitter npn transistor.
JULY	8	Experiment 4: To find the focal length of a convex lens by plotting graphs between $1/u$ or $1/v$ . Experiment 5: To find the value of $v$ for different values of $u$ in case of a concave mirror and to find the focal length. Activity 1: To observe Polarization of light using two Polaroids
AUGUST	8	Experiment 6: To determine angle of minimum deviation for a given prism.  Experiment 7: To determine refractive index of a glass slab using a travelling microscope.  Activity 2: To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
SEPTEMBER	4	Experiment 8 : To find refractive index of a Liquid by using (i) concave mirror, (ii) convex lens and plane mirror  Activity 3: To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.
OCTOBER	12	Experiment 9: To determine resistance per cm of a given wire by plotting a graph of potential difference versus current. Experiment 10: To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material. Experiment 11: To verify the laws of combination of resistances using a meter bridge. (series) Experiment 12: To verify the laws of combination of resistances using a meter bridge. (parallel)

		Activity 4: To study the variation in potential drop with length of a wire for a steady current
NOVEMBER	4	Experiment 13: To compare the emf of two given primary cells using potentiometer. Experiment 14: To determine resistance of a galvanometer by half deflection method and to find its figure of merit. Experiment 15: To convert galvanometer into ammeter and voltmeter Activity 5: To assemble household circuit using bulbs
DECEMBER	4	Revision Practicals
	4	
JANUARY	6	Revision Practicals
Total	58	