



D.A.V. PUBLIC SCHOOL, NEW PANVEL

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

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SYLLABUS PLAN FOR 2019-20

SUBJECT: Physics

CLASS – XII

Month	No. of Working Days	Topics	No. of Periods	Weightage
March	8	<u>VOL I UNIT IV</u> Chapter :3 Current Electricity	11	4
April	22	<u>Contd ...</u> Current Electricity	6	4
		<u>VOL II UNIT IX</u> Chapter :14 Electronic Devices	9	7
		<u>VOL II UNIT II</u> Chapter:9 Ray Optics	9	7
June	18	<u>VOL I UNIT III</u> Chapter:1 Electric charges and field	9	4
		Chapter:2 Electrostatic potential and capacitance	7	2
		Revision	4	
July	26	Revision and I Unit Test	6	
		Contd... Electrostatic potential and capacitance	7	2
		<u>VOL I UNIT V</u> Chapter :4 Magnetic effect of electric current	14	4

Month	No. of Working Days	Topics	No. of Periods	Weightage
August	21	<u>VOL I UNIT V</u> Chapter:5 Magnetism	13	4
		<u>VOL I UNIT VI</u> Chapter: 6 Electromagnetic induction	13	5
September	17	<u>VOL II UNIT VIII</u> Chapter: 11 Dual Nature of matter	8	5
		Revision and 1 st terminal Examination	14	-
October	18	Chapter: 7 Alternating Current and Electrical machines	7	4
		<u>VOL I UNIT VII</u> Chapter: 8 Electromagnetic Waves	7	4
		<u>VOL II UNIT II</u> Chapter:10 Wave Optics	12	7
November	23	<u>VOL II UNIT I:</u> Chapter:12 Atoms	6	4
		Chapter:13 Nuclei	6	3
		Revision for Preparatory Examination	6	
		Preparatory Examination	4	
December	18	Preparatory Examination (contd)	5	-
		Revision for Preliminary Examination	13	
January	24	Preliminary Examination	12	-
		Revision for Annual Examination	12	-
February	12	Revision for Annual Examination	12	
Total	207		232	70



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SYLLABUS PLANNING (2019-2020)

PRACTICAL

SUB:Physics

Std: XII

Month	No. of Periods For Practical	Experiment/Topic
JUNE	8	<p>Experiment 1: To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.</p> <p>Experiment 2: To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material.</p> <p>Experiment 3: To verify the laws of combination of resistances using a meter bridge.(series)</p>
JULY	8	<p>Experiment 4: To verify the laws of combination of resistances using a meter bridge.(parallel)</p> <p>Experiment 5: To draw I-V characteristic of a pn junction diode.</p> <p>Experiment 6: To draw the characteristic curve of a zener diode and to determine its reverse break down voltage</p>
AUGUST	8	Activity 1: To study the variation in

		<p>potential drop with length of a wire for a steady current</p> <p>Experiment 7: To compare the emf of two given primary cells using potentiometer.</p> <p>Activity 2: To assemble household circuit using bulbs</p> <p>Experiment 8: To determine resistance of a galvanometer by half deflection method and to find its figure of merit.</p> <p>Experiment 9: To convert galvanometer into voltmeter</p>
SEPTEMBER	4	<p>Experiment 10 To find the focal length of a convex lens by plotting graphs between u or v or $1/u$ or $1/v$.</p> <p>Experiment 11: To find the value of v for different values of u in case of a concave mirror and to find the focal length</p> <p>Experiment 12: To determine angle of minimum deviation for a given prism.</p>
OCTOBER	12	<p>Experiment 13: To determine refractive index of a glass slab using a travelling microscope.</p> <p>Activity 3: To observe Polarization of light using two Polaroids</p> <p>Experiment 14: To find refractive index of a Liquid by using convex lens and plane mirror</p>
NOVEMBER	4	<p>Experiment 15: To determine focal length of concave lens using convex lens</p>

		<p>Activity 4: To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.</p> <p>Activity 5: To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses</p>
DECEMBER	4	.
	4	Revision Practicals
JANUARY	6	
Total	58	