

O.P. JINDAL SCHOOL, SAVITRI NAGAR
Annual Syllabus 2023-2024

Class-XI

Subject: Physics

S.N.	MONTH	I. D.	NO. OF PERIODS	CHAPTERS	ENRICHMENT ACTIVITY	VALUES IMPARTED	EXTRA CONTENT
1	APR	21	12 5	2- Units and measurements 3. Motion in straight line (conti)	To find the least count of self made scales. To study graph of s-t graphs.	SWBAT: UNDERSTAND base of units and dimensions. They will also come to know the relative concept of rest and motion.	Some competitive questions based on applications of dimensions. Significant figures, Rounding off numbers.
2	JUN	11	9	3. Motion in straight line	To find the displacement using v-t graph.	SWBAT: Understand different terms and concepts about motion and uses of graphs.	s-t, v-t graph based questions.
3	JUL	24	15 14	4. Motion in plane 5. Laws of motion	Using Vernier calliper, find the diameter of spherical / cylindrical body. To measure the diameter of given wire and thickness of given sheet using screw gauge.	SWBAT: Understand need of direction in different quantities. Understand the multiplication of vectors.	Horizontal projection
4	AUG	25	14	6- Work, Energy and Power	Using simple pendulum, plot L-T ² graph and use it to find length of second's pendulum.	SWBAT: About work and the factors on which work depend.	Coefficient of restitution (inelastic collision)

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			12	7- System Of Particles And Rotational Motion	To find the weight of given body using parallelogram law.	Also about the centre of mass and their motion.	
5	SEP	25	HALF YEALY EXAM				
6	OCT	20	8 12	7- System Of Particles And Rotational Motion 8- Gravitation	To calculate the weights of objects of different shapes and sizes.	SWBAT: Understand about gravitational force.	MI of some mores shapes.
7	NOV	16	12 8	9-Mechanical properties of solids 10-Mechanical properties of fluids	To show elastic behaviour of different objects.	SWBAT: Understand about the internal property of solid.	Poisson's ration. Lateral strain.
8	DEC	22	8 12	13-Kinetic theory of gas 12- Thermodyna mics	Student will understand the pressure exerted by gas..	SWBAT: About motion of gas particles and their effect. Know the relation between heat and work done.	Gas laws Gas Equation.

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9	JAN	23	20	14- Waves and oscillations 11-Thermal properties of matter	Student will understand the transverse and longitudinal waves. Newton's law of cooling experiment.	SWBAT: Understand thermal properties of matter.	
10	FEB	24	Annual Exam				
11	MARCH	13	Annual Exam				

SYLLABUS FOR EXAMINATION

SN	EXAMINATION	MONTH	MAX.MAR KS	MAX.TIM E	SYLLABUSFOR EXAMINATION
1	TEST-1	JULY	20	1 Hr	2,3
2	HALFYEARLY	September	70	3Hrs	2,3,4,5,6,7
3	TEST-2	November	20	1Hrs	7,8
4	ANNUALEXAM	February	70	3Hrs	Complete Portion