

Syllabus / SLOs Coverage plan (2022-23)

Grade:	XI			Subject:	Physics		
Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		August - 2022.					
1	2	10 to 11	Measurement	.August-7	Ashoora -Holiday		
				.August-8			2%
				.August-9			
				.August-10	The scope of Physics		
				.August-11	SI base, supplementary and derived units		
Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		August - 2022.					
2	4	14 to 18	Measurement	.August-14	Independence day - Holiday		
				.August-15			6%
				.August-16	Errors and uncertainties		
				.August-17	Use of significant figures		
				.August-18	Precision and accuracy		
			.August-18	Dimensionality			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		August - 2022.					
3	5	21 to 25	Vectors and Equilibrium	.August-21	Exercise	10%	
				.August-22	Exercise		
				.August-23	Cartesian coordinate system		
				.August-24	Addition of vectors by head to tail rule		
				.August-25	Addition of vectors by perpendicular components		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review	
#	Aug/ Sep - 2022.							
4	5	28 to 1	Vectors and Equilibrium	.August-28	Scalar product of two vectors	14%		
				.August-29	Vectors product of two vectors			
				.August-30	Torque			
				.August-31	Equilibrium of forces			
				.Sept:1	Equilibrium of torques			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Sept: - 2022.					
5	5	4 to 8	Vectors and Equilibrium	.Sept:-4	Exercise	18%	
		.Sept:-5		Exercise			
		.Sept:-6		Exercise			
		.Sept:-7		Forces and Motion			
		.Sept:-8		Displacement			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Sept: - 2022.					
6	5	11 to 15	Vectors and Equilibrium	Sept:- 11	velocity and instantaneous velocity	23%	
		Sept:- 12		acceleration and instantaneous acceleration			
		Sept:- 13		Review of equations of uniformly accelerated motion			
		Sept:- 14		Newton's laws of motion			
		Sept:- 15		Momentum and Impulse			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Sept: - 2022.					
7	5	18 to 22	Vectors and Equilibrium	.Sept: 18	Law of conservation of momentum	27%	
		.Sept: 19		Elastic collisions in one dimension			
		.Sept: 20		Momentum and explosive forces			
		.Sept: 21		Projectile motion			
		.Sept: 22		Rocket motion			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Sept: - 2022.					
8	5	25 to 29	Work and Energy	.Sept: 25	Exercise	35%	
		.Sept: 26		Exercise			
		.Sept: 27		Exercise			
		.Sept: 28		Exercise			
		.Sept: 29		Work done by a constant force			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		October-2022.					
9	5	2 to 6	Work and Energy	.Oct: - 2	Work as scalar product of force and displacement	40%	
		.Oct: - 3		Work against gravity			
		.Oct: - 4		Work done by variable force			
		.Oct: - 5		Gravitational Potential at a point			
		.Oct: - 6		Escape velocity			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		October-2022.					
10	5	9 to 13	Work and Energy	.Oct: - 9	Power as scalar product of force and velocity	45%	
		.Oct: - 10		Work energy principle in resistive medium			
		.Oct: - 11		Sources and uses of energy,(i) Conventional sources of energy			
		.Oct: - 12		(ii) Non conventional sources of energy			
		.Oct: - 13		Exercise			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		October-2022.					
11	5	16 to 20	Rotational and Circular Motion	.Oct: - 16	Exercise	50%	
				.Oct: - 17	Exercise		
				.Oct: - 18	Kinematics of angular motion		
				.Oct: - 19	Centripetal force and centripetal acceleration		
				.Oct: - 20	Orbital velocity		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		October-2022.					
12	5	23 to 27	Rotational and Circular Motion	.Oct: - 23	Artificial satellites	55%	
		.Oct: - 24		Artificial gravity			
		.Oct: - 25		Moment of inertia			
		.Oct: - 26		Angular momentum			
		.Oct: - 27		centripetal acceleration $a = \omega^2 r$, $a = v^2 / r$			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Oct/ Nov- 2022.					
13	5	30 to 3	Fluid Dynamics	.Oct:- 30	Exercise	60%	
		.Oct:- 31		Exercise			
		.Nov:- 1		Exercise			
		.Nov:- 2		Streamline and Turbulent flow			
		.Nov:- 3		Equation of continuity			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Nov:- 2022.					
14	5	6 to 10	Fluid Dynamics	.Nov- 6	Bernoulli's equation	65%	
				.Nov- 7	Applications of Bernoulli's equation		
				.Nov- 8	Viscous fluids		
				.Nov- 9	Fluid Friction		
				.Nov- 10	Terminal velocity		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Nov:- 2022.					
15	5	13 to 17	Oscillations	.Nov: -13	Exercise	68%	
				.Nov: -14	Exercise		
				.Nov: -15	Exercise		
				.Nov: -16	Simple Harmonic Motion (SHM)		
				.Nov: -17	Circular motion and SHM		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Nov:- 2022.					
16	5	20 to 24	Oscillations	.Nov:- 20	Practical SHM system (mass spring and simple pendulum)	70%	
		.Nov:- 21		Energy conservation in SHM			
		.Nov:- 22		Free and forced oscillations			
		.Nov:- 23		Resonance			
		.Nov:- 24		Damped oscillations			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#	Nov / Dec:- 2022.						
17	Nil	27 to 1		.Nov:- 27	Oman National Day- Holidays		
				.Nov:- 28			

Sendup Examination - From November 29, 2022 to December 15, 2022

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Dec: - 2022.					
18	5	18 to 22	Waves	.Dec: -18	Exercise	72%	
		.Dec: -19		Exercise			
		.Dec: -20		Exercise			
		.Dec: -21		Periodic waves			
		.Dec: -22		Progressive waves			

Winter Vacation from December 22 to January 5, 2023

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		January- 2023.					
19	5	8 to 12	Waves	.Jan:- 8	Transverse and longitudinal waves	75%	
		.Jan:- 9		Speed of sound in air			
		.Jan:- 10		Newton's formula and Laplace correction			
		.Jan:- 11		Superposition of waves			
		.Jan:- 12		Stationary waves			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		January- 2023.					
20	5	15 to 19	Waves	.Jan:- 15	Modes of vibration of strings	80%	
				.Jan:- 16	Fundamental mode and harmonics		
				.Jan:- 17	Vibrating air columns and organ pipes		
				.Jan:- 18	Doppler effect and its applications		
				.Jan:- 19	Generation, detection and use of ultrasonic		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		January- 2023.					
21	5	15 to 19	Physical Optics	.Jan:- 22	Exercise	85%	
				.Jan:- 23	Exercise		
				.Jan:- 24	Exercise		
				.Jan:- 25	Nature of light		
				.Jan:- 26	Wave front		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		Jan/ Feb- 2023.					
22	5	29 to 02	Physical Optics	.Jan:- 29	Huygens's principle	90%	
		.Jan:- 30		Interference -Young's double slit experiment			
		.Jan:- 31		Michelson's Interferometer			
		.Feb:- 1		Diffraction			
		.Feb:- 2		Polarization			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		February- 2023.					
23	5	5 to 9	Thermodynamics	.Feb:- 5	Exercise	95%	
				.Feb:- 6	Exercise		
				.Feb:- 7	Exercise		
				.Feb:- 8	Thermal equilibrium		
				.Feb:- 9	Heat and work		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		February- 2023.					
24	5	12 to 16	Thermodynamics	.Feb:- 12	Internal energy ,First law of thermodynamics	100%	
		.Feb:- 13		Molar specific heats of a gas ,Heat engine			
		.Feb:- 14		Second law of thermodynamics ,Carnot’s cycle, Refrigerator			
		.Feb:- 15		Entropy, Exercise			
		.Feb:- 16		Exercise			

Completion of Syllabus till February 16, 2023

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		February- 2023.					
25	3	19 to 23		.Feb:- 19	Revision		
		.Feb:- 20		Revision			
		.Feb:- 21		Revision			
		.Feb:- 22		Revision			
		.Feb:- 23		Revision			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review	
#	Feb/ Mar: - 2023.							
26	5	26 to 2		.Feb:- 26	Revision			
				.Feb:- 27	Revision			
				.Feb:- 28	Revision			
				.March:- 1	Revision			
				.March:- 2	Revision			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					
27	5	5 to 9		.March: - 5	Revision / Test Series		
		.March: - 6		Revision / Test Series			
		.March: - 7		Revision / Test Series			
		.March: - 8		Revision / Test Series			
		.March: - 9		Revision / Test Series			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					
28	5	12 to 16		.March: - 12	Revision / Test Series		
				.March: - 13	Revision / Test Series		
				.March: - 14	Revision / Test Series		
				.March: - 15	Revision / Test Series		
				.March: - 16	Revision / Test Series		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review	
#		March: - 2023.						
29	4	19 to 23		.March: - 19	Revision / Test Series			
				.March: - 20	Revision / Test Series			
				.March: - 21	Revision / Test Series			
				.March: - 22	Revision / Test Series			
				.March: - 23	Pakistan Day- Holiday			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		March: - 2023.					
30	5	26 to 30		.March: - 26	Revision / Test Series		
				.March: - 27	Revision / Test Series		
				.March: - 28	Revision / Test Series		
				.March: - 29	Revision / Test Series		
				.March: - 30	Revision / Test Series		

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		April- 2023.					
31	5	2 to 6		.April:- 2	Revision / Test Series		
		.April:- 3		Revision / Test Series			
		.April:- 4		Revision / Test Series			
		.April:- 5		Revision / Test Series			
		.April:- 6		Revision / Test Series			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		April- 2023.					
32	5	9 to 13		.April:- 9	Revision / Test Series		
		.April:- 10		Revision / Test Series			
		.April:- 11		Revision / Test Series			
		.April:- 12		Revision / Test Series			
		.April:- 13		Revision / Test Series			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		April- 2023.					
33	5	16 to 20		.April:- 16	Revision / Test Series		
		.April:- 17		Revision / Test Series			
		.April:- 18		Revision / Test Series			
		.April:- 19		Revision / Test Series			
		.April:- 20		Revision / Test Series			

Week	# of Working days	From--T0	Chapter	Date	Topics	%	Review
#		April- 2023.					
34	5	23 to 27		.April:- 23	Revision / Test Series		
		.April:- 24		Revision / Test Series			
		.April:- 25		Revision / Test Series			
		.April:- 26		Revision / Test Series			
		.April:- 27		Revision / Test Series			
Pre- Board- XI- XII, May- 2023							