

THE WISDOM GLOBAL SCHOOL									
SYLLABUS BIFURCATION									
GRADE XI									
SUBJECT:- Physics									
NAME OF BOOKS:SCIENCE Class XII (NCERT Vol. I & II) & DINESH NEW MILLENNIUM PHYSICS (Vol.I & II) BY S.K. SHARMA									
YEAR 2022-23									
NAME OF THE TEACHER:- Mr. AVNISH SHARMA									
S.NO	BOOK NAME	MONTH	CHAPTER NUMBER	CHAPTER NAME	SUB-TOPICS	NO. OF DAYS REQUIRED	ACTIVITY/P ROPS	SMART BOARD (PPT/VIDEO)	CHAR TS
1	Dinesh New Millenium Physics	July	1	PHYSICAL WORLD	Physics- Definition & Distribution of Syllabus	1	No	No	No
2		July	1	PHYSICAL WORLD	Fundamental physical quantities and System of Units	1	No	No	No
3		July	2	UNITS AND MEASUREMENTS	Derived Units & Dimensional Formulae	1	No	No	No
4		July	2	UNITS AND MEASUREMENTS	Application of Dimensional Analysis	1	No	No	No

5	DINESH PRACTICAL MANUAL IN PHYSICS-CLASSXII	July	2	UNITS AND MEASUREMENTS	Numeric Values & Significant Digits	1	No	No	No	
6		July	2	UNITS AND MEASUREMENTS	Errors	1	No	No	No	
7		July	2	MATHEMATICAL TOOLS	Dependent And Independent Variable ,Slope of a line and slope of tangent	1	No	No	No	
8		July	2	MATHEMATICAL TOOLS	Some Useful Differentiation	1	No	No	No	
9		July	2	MATHEMATICAL TOOLS	Some Useful Integration	1	No	No	No	
10		July	2	MATHEMATICAL TOOLS	Some Useful Integration	1	No	No	No	
11		July	2	MATHEMATICAL TOOLS		1	No	No	No	
12		July	0	MATHEMATICAL TOOLS		1	No	No	No	
13		July	0	MATHEMATICAL TOOLS		1	No	No	No	
14		DINESH PRACTICAL MANUAL IN PHYSICS-CLASSXII	July	LABORATORY WORK	EXPERIMENT-1	Vernier Callipers	1	Yes	No	No
15		DINESH PRACTICAL MANUAL IN PHYSICS-CLASSXII	July	LABORATORY WORK	EXPERIMENT-2	Screw Gauge	1	Yes	No	No
16		DINESH PRACTICAL MANUAL IN PHYSICS-CLASSXII	MAY	LABORATORY WORK	EXPERIMENT-3	Spherometer	1	Yes	No	No
17		Dinesh New Millenium Physics	July	3	MOTION IN A STRAIGHT LINE	Derivation of equations of Motion by Analytical Method	1	No	No	No
18	July			MOTION IN A STRAIGHT LINE	Derivation of equations of Motion by Calculas Method	1	No	No	No	
19	Dinesh New Millenium Physics	August	3	MOTION IN A STRAIGHT LINE	Graphical Concepts	1	No	No	No	
20		August	3	MOTION IN A STRAIGHT LINE	Derivation of equations of Motion by Graphical Method	1	No	No	No	
21		August	3	MOTION IN A PLANE	Scalars and Vectors	1	No	No	No	
22		August	3	MOTION IN A PLANE	Addition and Subtraction of Vectors	1	No	No	No	
23		August	3	MOTION IN A PLANE	Verification of Law of Parallelogram and components of a vector	1	No	No	No	
24		August	3	MOTION IN A PLANE	Three Dimensional Vectors	1	No	No	No	

25	DINESH PRACTICAL MANUAL IN PHYSICS- CLASSXII	August	3	MOTION IN A PLANE	Projectile Motion: Some Useful Terms	1	No	No	No
26		August	4	MOTION IN A PLANE	Motion of a Projectile and it's Velocity components	1	No	No	No
27		August	4	MOTION IN A PLANE	Flight Time ,Range ,Maximum Height and Trajectory equation of a projectile	1	Yes	No	No
28		August	4	MOTION IN A PLANE	Relative Velocity	1	No	No	No
29		August	4	MOTION IN A PLANE	Uniform Circular Motion	1	No	No	No
30		August	5	LAWS OF MOTION	Laws of Motion	1	No	No	No
31		August	5	LAWS OF MOTION	Momentum and Impulse	1	No	No	No
32		August	5	LAWS OF MOTION	Law of Conservation of Linear Momentum	1	No	No	No
33		August	5	LAWS OF MOTION	Equilibrium of Forces and Numericals	1	No	No	No
34		August	5	LAWS OF MOTION	Frictional Force:Types of Frictional Force	1	No	No	No
35	August	5	LAWS OF MOTION	Dynamics of Circular Motion-Vehicle on a Level Circular Road and Banked Road	1	No	No	No	
36	DINESH PRACTICAL MANUAL IN PHYSICS- CLASSXII	August	6	WORK ENERGY AND POWER	Work done by a constant force and a Variable Force	1	Yes	No	No
37		August	6	WORK ENERGY AND POWER	Kinetic Energy and Work -Energy Theorem	1	Yes	No	No
38		August	6	WORK ENERGY AND POWER	Potential Energy and different forms of Potential Energy	1	Yes	No	No
39	DINESH PRACTICAL MANUAL IN PHYSICS- CLASSXII	August	6	WORK ENERGY AND POWER	Spring Potential Energy	1	No	No	No
40		August	6	WORK ENERGY AND POWER	Conservati and Non-Conservative Forces	1	No	No	No
41		August	6	WORK ENERGY AND POWER	Law of Conservation of Mechanical Energy With Gravitational Potential Energy Examples	1	No	No	No
42		August	6	WORK ENERGY AND POWER	Motion in a Verticle Circle	1	No	No	No
43		August	6	WORK ENERGY AND POWER	Elastic and Inelastic one & two Dimensional Collisions	1	No	No	No

44	Dinesh New Millenium Physics	August	7	SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Centre of Mass of two Particle System and rigid body-Rod	1	No	No	No
45	Dinesh New Millenium Physics	September	7	SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Motion of Centre of Mass	1	No	No	No
46		September	7	SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Moment of Inertia and radius of gyration	1	No	No	No
47		September	7	SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Torque	1	No	No	No
48		September	7	SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Angular Momentum	1	No	No	No
49		September	7	SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Law of Conservation of Angular Momentum with examples	1	No	No	No
50		September	7	SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Rotational Motion :Equations and comparison with Linear Motion	1	No	No	No
51		September	7	SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Equilibrium of Rigid Bodies	1	No	No	No
52		September	7	SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Numerical and Conceptual Problems	1	No	No	No
53		September	8	GRAVITATION	Kepler's Laws and Universal Law Of Gravitation	1	No	No	No
54		September	8	GRAVITATION	Acceleration due to Gravity and it's variation With Depth and Altitude	1	No	No	No
55		September	8	GRAVITATION	Gravitational Potential Energy and Gravitational Potential	1	No	No	No
56		September	8	GRAVITATION	Motion of Satellites ;Time Period ,Orbital Velocity and escape Velocity	1	No	No	No
57		September	8	GRAVITATION	Geo-stationary Satellites and Numericals	1	No	No	No
58		September				1	No	No	No
59	September	LABORATORY WORK		EXPERIMENT-4	Parallelogram law of Vectors	1	No	No	No
60	September	LABORATORY WORK		ACTIVITY-1	To make a Paper Scale	1	No	No	No

61	Dinesh New Millenium Physics	September	LABORATORY WORK	ACTIVITY-2	Principle of Moments	1	No	No	No
62		September	LABORATORY WORK	ACTIVITY-3	Dissipation of Energy of a Simple Pendulum	1	No	No	No
63		September	8	Revision and Student's Doubt					
64		September	8	Revision and Student's Doubt					
65		September	8	Revision and Student's Doubt					
66		September	8	Revision and Student's Doubt					
MID TERM ASSESSMENT									
67	Dinesh New Millenium Physics	October	9	MECHANICAL PROPERTIES OF SOLIDS- ELASTICITY	Stress and Strain	1	No	No	No
68		October	9	MECHANICAL PROPERTIES OF SOLIDS- ELASTICITY	Stress and Strain	1	No	No	No
69		October	9	MECHANICAL PROPERTIES OF SOLIDS- ELASTICITY	Hook's Law and Young's Modulus	1	No	No	No
70		October	9	MECHANICAL PROPERTIES OF SOLIDS- ELASTICITY	Shear Modulus(or Modulus of rigidity) and Bulk Modulus Of Elasticity	1	No	No	No
71		October	9	MECHANICAL PROPERTIES OF SOLIDS- ELASTICITY	Energy stored in an elastic Body	1	No	No	No
72		October	9	MECHANICAL PROPERTIES OF SOLIDS- ELASTICITY	Stress Vs Strain Curve	1	No	No	No
73		October	10	MECHANICAL PROPERTIES OF FLUIDS	Pressure and Pressure due to a Fluid Column	1	No	No	No
74		October	10	MECHANICAL PROPERTIES OF FLUIDS	Pascal's Law and it's applications	1	No	No	No
75		October	10	MECHANICAL PROPERTIES OF FLUIDS	Archimedes' Principle and it's Applications	1	No	No	No
76		October	10	MECHANICAL PROPERTIES OF FLUIDS	Stream Line Turbulant Flow	1	No	No	No
77		October	10	MECHANICAL PROPERTIES OF FLUIDS	Bernoulli's Theorem and it's Applications ,Critical Velocity	1	No	No	No

78	Dinesh New Millenium Physics	October	10	MECHANICAL PROPERTIES OF FLUIDS	Viscosity and Stoke's Law	1	No	No	No
79	Dinesh New Millenium Physics	NOVEMBER	10	MECHANICAL PROPERTIES OF FLUIDS	Terminal Velocity	1	No	No	No
80		NOVEMBER	10	MECHANICAL PROPERTIES OF FLUIDS	Numerical	1	No	No	No
81		NOVEMBER	10	MECHANICAL PROPERTIES OF FLUIDS	Surface Tension and Surface Energy	1	No	No	No
82		NOVEMBER	10	MECHANICAL PROPERTIES OF FLUIDS	Factors affecting Surface Tension and relation between Surface Tension and Surface Energy	1	No	No	No
83		NOVEMBER	10	MECHANICAL PROPERTIES OF FLUIDS	Excess of pressure inside the meniscus and stability of a liquid drop and a bubble	1	No	No	No
84		NOVEMBER	10	MECHANICAL PROPERTIES OF FLUIDS	Angle of Contact and shape of a drop	1	No	No	No
85		NOVEMBER	10	MECHANICAL PROPERTIES OF FLUIDS	Capillary Action -Rise and fall of liquid inside the Capillary	1	No	No	No
86		NOVEMBER	10	MECHANICAL PROPERTIES OF FLUIDS	Numerical	1	No	No	No
87		NOVEMBER	10	MECHANICAL PROPERTIES OF FLUIDS	Numerical	1	No	No	No
88		NOVEMBER	10	MECHANICAL PROPERTIES OF FLUIDS	Numerical	1	No	No	No
89		NOVEMBER	13	KINETIC THEORY OF GASES	Gas Laws-Boyle's Law ,Charle's Law and Gaylussac's Law	1	No	No	No
90		OCTOBER	13	KINETIC THEORY OF GASES	Ideal Gas Equation and Universal Gas Constant	1	No	No	No
91		NOVEMBER	13	KINETIC THEORY OF GASES	Kinetic Theory of Gases: Assumptions	1	No	No	No
92		NOVEMBER	13	KINETIC THEORY OF GASES	Kinetic Gas Equation of Monoatomic Gases	1	No	No	No
93		NOVEMBER	13	KINETIC THEORY OF GASES	Kinetic interpretation of temperature	1	No	No	No
94		NOVEMBER	13	KINETIC THEORY OF GASES	Average ,R.M.S. and most probable speed	1	No	No	No
95		NOVEMBER	13	KINETIC THEORY OF GASES	Vander Walls' equation for real gases	1	No	No	No
96	Dinesh New Millenium Physics	NOVEMBER	13	KINETIC THEORY OF GASES	Numerical & Conceptual Problems	1	No	No	No

97	Dinesh New Millenium Physics	DECEMBER	11	THERMAL PROPERTIES OF MATTER	Thermometry Properties and Temperature Measuring Scales	1	No	No	No
98		DECEMBER	11	THERMAL PROPERTIES OF MATTER	Liquid Thermometers and Ideal Gas Thermometer	1	No	No	No
99		DECEMBER	11	THERMAL PROPERTIES OF MATTER	Thermal Expansion Of Solids	1	No	No	No
100		DECEMBER	11	THERMAL PROPERTIES OF MATTER	Expansion of liquids and gases	1	No	No	No
101		DECEMBER	11	THERMAL PROPERTIES OF MATTER	Specific Heat Capacity and Molar Specific Heat Capacity	1	No	No	No
102		DECEMBER	11	THERMAL PROPERTIES OF MATTER	Principle of Calorimetry ,Change of State and Triple Point Curve	1	No	No	No
103		DECEMBER	11	THERMAL PROPERTIES OF MATTER	Two Molecular Specific Heats of Gases	1	No	No	No
104		DECEMBER	11	THERMAL PROPERTIES OF MATTER	Two Molecular Specific Heats of Gases	1	No	No	No
105		DECEMBER	11	THERMAL PROPERTIES OF MATTER	Relation between Cp and Cv	1	No	No	No
106		DECEMBER	12	THERMAL PROPERTIES OF MATTER	Degree of Freedom and Law of Equipartition of Energy	1	No	No	No
107		DECEMBER	12	THERMAL PROPERTIES OF MATTER	Ratio of two specific heats for mono- atomic ,di-atomic and poly-atomic gases	1	No	No	No
108		DECEMBER	12	THERMAL PROPERTIES OF MATTER	Numerical	1	No	No	No
109		DECEMBER	12	THERMODYNAMICS	Thermodynamic Variables and Work done of a thermodynamic System	1	No	No	No
110		DECEMBER	12	THERMODYNAMICS	Zeroth Law of Thermodynamics and Internal Energy of a Thermodynamic System	1	No	No	No
111		NOVEMBER	12	THERMODYNAMICS	First Law of Thermodynamics and Special thermodynamic Processes	1	No	No	No
112		DECEMBER	12	THERMODYNAMICS	Isothermal Process	1	No	No	No
113		DECEMBER	12	THERMODYNAMICS	Adiabatic Process	1	No	No	No
114		DECEMBER	12	THERMODYNAMICS	Reversible and Irreversible Process	1	No	No	No
115		DECEMBER	11	THERMODYNAMICS	Second Law of Thermodynamics	1	No	No	No
116	DECEMBER	11	THERMODYNAMICS	Carnot's Cycle	1	No	No	No	
117	DECEMBER	11	THERMODYNAMICS	Numerical	1	No	No	No	
118	DECEMBER	11	THERMAL PROPERTIES OF MATTER	Heat Transfer-Conduction ,Convection and Radiation	1	No	No	No	
119	DECEMBER	11	THERMAL PROPERTIES OF MATTER	Thermal Conductivity and Fourier Law	1	No	No	No	

120	Dinesh New Millenium Physics	DECEMBER	11	THERMAL PROPERTIES OF MATTER	Series and Parallel Connection of Composite Walls	1	No	No	No
121		DECEMBER	11	THERMAL PROPERTIES OF MATTER	Incident Heat Radiation Radiation	1	No	No	No
122	Dinesh New Millenium Physics	JANUARY	11	THERMAL PROPERTIES OF MATTER	Black Body Radiation	1	No	No	No
123		JANUARY	11	THERMAL PROPERTIES OF MATTER	Emitted Radiation and Wein's Displacement Law	1	No	No	No
124		JANUARY	11	THERMAL PROPERTIES OF MATTER	Stefan-Boltzmann Law , Newton's Law of Cooling and Green House Effect	1	No	No	No
125		JANUARY	14	OSCILLATIONS	Periodic and Oscillatory Motion ,Some Useful Terms related to Periodic Motion-Amplitude ,Frequency and Phase	1	No	No	No
126		JANUARY	14	OSCILLATIONS	Periodic Functions and Fourier Theorem	1	No	No	No
127		JANUARY	14	OSCILLATIONS	Graphical representation of Simple Harmonic (Sinusoidal) Functions	1	No	No	No
128		JANUARY	14	OSCILLATIONS	Uniform Circular Periodic Motion and Simple Harmonic Motion- Displacement ,Velocity and Acceleration	1	No	No	No
129		JANUARY	14	OSCILLATIONS	Time Period and Energy of SHM	1	No	No	No
130		JANUARY	14	OSCILLATIONS	Characteristics of SHM ,Linear and Angular SHM	1	No	No	No
131		JANUARY	14	OSCILLATIONS	Oscillations of a Loaded Spring	1	No	No	No
132		JANUARY	15	OSCILLATIONS	Oscillations of a Simple Pendulum	1	No	No	No
133		JANUARY	15	OSCILLATIONS	Free, Forced and Damped Oscillations , Resonance	1	No	No	No
134		JANUARY	15	OSCILLATIONS	Numericals	1	No	No	No
135		JANUARY	15	WAVES	Classification of Waves on the basis of requirement of the Medium	1	No	No	No
136		JANUARY	15	WAVES	Classification of Waves on the basis of oscillation of the Medium Particles	1	No	No	No
137		JANUARY	15	WAVES	Some useful Terms related to Waves and Classification of Waves on the basis of Frequency	1	No	No	No
138	JANUARY	15	WAVES	Wave Function and Harmonic Wave Equation	1	No	No	No	

139	Dinesh New Millenium Physics	JANUARY	15	WAVES	Different Conditions of Phase Difference	1	No	No	No
POST-MID TERM ASSESSMENT									
140	Dinesh New Millenium Physics	FEBURARY	15	WAVES	Energy Transmission and Intensity of A Wave	1	No	No	No
141		FEBURARY	15	WAVES	Numerical	1	No	No	No
142		FEBURARY	15	WAVES	Speed of Waves in Different Medium	1	No	No	No
143		FEBURARY	15	WAVES	Speed of Waves in Different Medium	1	No	No	No
144		FEBURARY	15	WAVES	Super Position of Waves : Stationary Waves	1	No	No	No
145		FEBURARY	15	WAVES	Stationary Waves in a String and Organ Pipes	1	No	No	No
146		FEBURARY	15	WAVES	Beats	1	No	No	No
147		FEBURARY	15	WAVES	Doppler Effect in Sound Waves	1	No	No	No
148	DINESH PRACTICAL MANUAL IN PHYSICS-CLASSXII	FEBURARY	LABORATORY WORK	EXPERIMENT-5	Young's Modulus of Elasticity	1	Yes	No	No
149		FEBURARY	LABORATORY WORK	EXPERIMENT-6	Cooling Curve	1	Yes	No	No
150		JANUARY	LABORATORY WORK	EXPERIMENT-7	Specific Heat Capacity	1	Yes	No	No
151		FEBURARY	LABORATORY WORK	EXPERIMENT-8	Sonometer OR Resonance Yube	1	Yes	No	No
152	DINESH PRACTICAL MANUAL IN PHYSICS-CLASS XII	FEBURARY	LABORATORY WORK	ACTIVITY-4	Cooling Curve for Molten Wax	1	Yes	No	No
153		FEBURARY	LABORATORY WORK	ACTIVITY-5	Heating of a liquid in a container	1	Yes	No	No
154		FEBURARY	LABORATORY WORK	ACTIVITY-6	Rate of loss of Heat of a liquid	1	Yes	No	No
155		FEBURARY		REVISION & STUDENT'S DOUBT				No	

156	Dinesh New Millenium Physics	FEBURARY		REVISION & STUDENT'S DOUBT					
157	Dinesh New Millenium Physics	MARCH		REVISION & STUDENT'S DOUBT					
158		MARCH		FINAL ASSESSMENT					
159		MARCH		FINAL ASSESSMENT					
160		MARCH		FINAL ASSESSMENT					
161		MARCH		FINAL ASSESSMENT					
162		MARCH		FINAL ASSESSMENT					
163		MARCH		FINAL ASSESSMENT					
164		MARCH		FINAL ASSESSMENT					
165		MARCH		FINAL ASSESSMENT					
166		MARCH		FINAL ASSESSMENT					
167		MARCH		FINAL ASSESSMENT					
168		MARCH		FINAL ASSESSMENT					
169		MARCH		FINAL ASSESSMENT					
170		MARCH		FINAL ASSESSMENT					
171		MARCH		FINAL ASSESSMENT					
172		MARCH		FINAL ASSESSMENT					
173		MARCH		FINAL ASSESSMENT					

