

HPBOSE Class 11 Physics Reduced Syllabus 2020-21 PDF

HIMACHAL PRADESH BOARD OF SCHOOL EDUCATION DHARAMSHALA(KANGRA)-176213 +1 Class Physics

r. No	Unit/Chapters/Topics	Deleted Topic
01	Physical World and Measurement	a) Nature of Physical laws (Page No. 6 Article No. 105 (10-12) b) Length, Mass and time measurements (Page 18, 19, 20, 21, 22) Article No. 2.3, 2.3.1, 2.3.2, 2.3.3, 2.4, 2.4.1, 2.5) (Period 4)
02	Kinematics	a) Frame of reference, Motion in straight line : Position- time graph (Page NO. 39, Article no. 3.2) b) Elementary concepts of differentiation and integration for describing motion (Page 61 to 64) Article No. Appendix 3.1 c) Resolution of a vector in a plane rectangular components (Page 69 to 71) (Article 4.5) (Period 10)
03	Laws of Motion	a) Interactive concept of force, Inertia (Page 89, 90) (Article 5.2) b) Equilibrium of concurrent forces (Page 99) Article 5.8) c) Examples of circular motion (Vertical on a level circular road, vertical on banked road) (Page 104) Article 5.10 (Period 10)
04	Work, Energy and Power	Motion in a vertical circle (Conservative, Non Conservative Forces (Page 122) (Period 05)
05	Motion of system of particles and rigid bodies.	a) Statement of Parallel and perpendicular axes theorems and their applications (Page no. 164 to 167) Article 7.10 (Period 6)
06	Gravitation	a) Gravitational Potential energy and gravitational potential (Page no 191) Article 8.7 (Period 4)
07	Properties of Bulk Matter	a) Shear modulus of rigidity (page 242) Article 9.6.3 poisson's ration (page 244) Article 9.6.5 elastic energy (page 244) Article 9.6.6 b) Exercise of pressure a cross a curved surface, application of surface tension, idiom to drops bubbles (Page 268) Article 10.7.4 c) Change of state, Latent Heat capacity (Page 286 to 288) Article 11.8 to 11.8.1 d) Green House effect (Page 295) Article no. 11.9.5)
08	Thermodynamics	a) Heat engine and refrigerator (Page 313,314) Article 12.9 & 12.10 (Period 4)
09	Behaviors of perfect gasses and kinetic theory of gasses	a) Equation of state of a perfect gas, work done in compressing a gas (Page 325 to 326) Article 13.3 b) Law of eqn. partition of energy (Page 332 Article 13.5) and application to specific heat energy (Page 333 to 335 Article 13.6 Capacities of gasses, concept of mean free path, Avogadro's Number
10	Oscillations and Waves	a) Energy in SHM, Kinetic & Potential Energy (Page 350, 351) Article 14.7 b) Fundamental Mode (Page 380 Article 15.6.1) and Harmonics; Beats (Page 382 Article 15.71, Doppler effect (Page 384 to 387 Article 15.6, 15.8.1, to 15.8.3) (Periods 9)

+1 Class (Deleted Practical Portion) Physics

Experiments	
r. No	Section - A
01	Experiments No. 1, 2, 3, 5 are retained and Experiments No. 4, 6, 7 are Deleted
02	Activity No. 1, 2, 3, 5, are retained and activity No. 4, 6, 7 are Deleted
Section - A	
01	Experiments No. 1, 2, 4, 7 are retained and Experiments No. 3, 5, 6, 8, 9 are Deleted
02	Activity No. 1, 2, 3, 4, are retained and activity No. 5 and 6 are Deleted