



Modelling Physics – Exam Paper – 37% of marks Exploring Physics – Exam Paper – 37% of marks Unified Physics – Exam Paper – 26% of marks Summary Module 1 - Development of Practical Skills in Physics Planning, Implementing, Analysis, Evaluation and Use of Apparatus in Physics Module 2 – Foundations of Physics Physical quantities and SI units. Making measurements and analysing data. Uncertainties and errors. Nature of quantities. Relationships between variables. Module 3 – Forces & Motion Kinematics, linear motion and projectile motion. Dynamics and motion with non-uniform acceleration. Equilibrium, density and pressure. Work, energy and power. Springs and mechanical properties of matter. Newton's laws of motion, collisions and the conservation of momentum. Module 4 – Electrons, Waves & Photons Charge and current. Energy, power and resistance in electrical circuits. Series and parallel circuits, internal resistance and potential dividers. Wave motion and electromagnetic waves. Diffraction, refraction and superposition of waves. Stationary waves. Quantum physics, the photoelectric effect and wave-particle duality.

Module 5 - Newtonian World & Astrophysics

Thermal physics of solids, liquids and gases. Ideal gases. Kinematics of circular motion and the centripetal (resultant) force. Simple harmonic motion, damping and resonance. Radial and uniform gravitational fields, gravitational field strength, gravitational potential energy

For more information follow these links with your phone:







