Physics 30 Course Outline

Unit 1: Kinematics and Dynamics

-understanding motion
-vector and scalar quantities
-distance and displacements
-speed and velocity
-acceleration
-Newton's laws of motion

Unit 2: Mechanical Energy

-work
-power
-kinetic energy
-gravitational potential energy

Unit 3: Electricity

-applications
-current and potential difference
-current, electric potential difference and Ohm's law
-electric circuits
-Kirchhoff's laws
-series, parallel, and combination circuits
-electric power and energy

Unit 4: Nuclear Physics

-natural radioactivity
-nuclear fission
-nuclear fusion
nuclear reactors

Evaluation

Tests	60%	
Research Paper	20%	These 3 categories account for
HIA	20%	60% of your overall mark

This is a departmental course and you will be writing a comprehensive final departmental examination as set by the dep't of education. This exam accounts for 40% of your overall mark.