**Physics Course Outline**

**Forces and Motion**

* Define Motion
* Distance and Displacement
* Speed and Velocity
* Acceleration
* Vectors and Vector addition
* Newton’s laws of motion
* Net Forces

**Types of Interactions**

* Gravitation and Electricity
* Kepler’s Law
* Momentum

**Energy**

* Work, Energy and Power
* Potential and Kinetic Energy
* Conservation of Energy

**Electricity and Magnetism**

* Electric Charge and Static Electricity
* Electric current and Ohm’s law
* Electric Circuits and Electronic devices
* Magnets and magnetic fields
* Electromagnetism

**Waves and their Applications**

* Mechanical waves and Sound
* Electromagnetic spectrum
* Dual nature of light