

### **PHY 101 General Physics ((Mechanics, Thermal physics and waves) 3 Units**

Space and Time, Units and dimension, kinematics, fundamental laws of mechanics, statics and dynamics, work and energy, conservation law; Elasticity, Hooke's law, young's shear and bulk moduli, Hydrostatics, pressure, buoyancy, Archimede's principles; Surface tension, adhesion, cohesion, capillarity, drops and bubbles; Temperature, heat, gas laws, law of thermodynamics, kinetic theory of gases, sound applications