

PHY 102 General Physics III (3+0+0 3 Units)

- Molecular treatment of properties of matter,
- Elasticity; Hooke's law, Young's shear and bulk moduli.
- Hydrostatics; Pressure, buoyancy. Archimedes' Principles.
- Hydrodynamics; Stream-lines, Bernoulli and continuity equations, turbulence, Reynold's number; viscosity; laminar flow, Poiseuille's equation.
- Surface tension, adhesion, cohesion, capillarity, drops and bubbles.
- Temperature; the zeroth law of thermodynamics; heat: gas laws; laws of thermodynamics;
- Kinetic theory of gases.
- Applications.