

# Physics 122 Course Outline

Term 2 NSER  
2011/2012

# Waves

- Waves Transferring Energy
  - Vibrations
  - Wave Behaviour
  - Interference
  - Waves in Two Dimension

# Waves (continued)

- Sound and Electromagnetic Radiation
  - Production and Propagation of Sound
  - Factors Affecting the Speed of Waves
  - Interference of Waves and Related Properties

# Advanced Dynamics Studies

- Vector Analysis of Force and Motion in Two Dimensions
- Conservation of Momentum
- Collisions in Two Dimensions
  - Projectile Motion
  - Circular Motion
- Simple Harmonic Motion
  - Universal Gravitation

# Fields

- Magnetic, Electric and Gravitational Fields
- Coulombs Law
- Electric Circuits
- Electromagnetism and Induction
- Generators and Motors

# Evaluation

- Tests, Labs, Seminars, Projects, Assignments- 70%
- Final Exam- 30%