DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY SCHOOL OF SCIENCE

DEPARTMENT OF MATHEMATICS AND PHYSICAL SCIENCES

SPH 1120 PHYSICS I

Course Purpose

The purpose of this course is to provide the student with a good understanding of fundamental concepts in physics and their application in engineering.

Course Objectives

At the end of the course, the student should be able to:

- Differentiate between scalar and vector quantities and their applications in different problems of mechanics,
- Demonstrate a good understanding of the Newton's laws of motion and apply them in engineering
- 3. Describe and apply laws of conservation of energy
- 4. Distinguish solids, liquids and gases
- 5. Mathematically express oscillatory and wave motion
- 6. Demonstrate understanding of the concept of temperature, heat as a form of energy
- 7. Apply laws of geometrical optics and their application in optical instruments

Course Description

- Lecture I: Introduction: definition of physical quantity, measurement, units and dimensions, International System of Units (SI) ,vectors and scalar quantities, subdivision of physics, guidelines in solving problems in physics
- Lecture II: Kinematics: rectilinear motion, displacement, velocity, acceleration, circular motion
- Lecture III: Newton's laws of motion. Newton's laws of motion, linear momentum
- Lecture IV: Work and energy: work, kinetic energy, potential energy, law of conservation of energy
- Lecture V: Equilibrium and elasticity, stress and strain, elastic moduli
- Lecture VI: Oscillations and waves: SHM, simple pendulum, transverse and longitudinal waves

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