

Physics SLO to ILO Alignment(No Results)_February 2017

CAN Institutional SLOs

Select, evaluate, and use information to investigate a point of view, support a conclusion, or engage in problem solving.

There are no Results for this SLO

Produce, combine, or synthesize ideas in creative ways within or across disciplines.

There are no Results for this SLO

Use language to effectively convey an idea or a set of facts, including the accurate use of source material and evidence according to institutional and discipline standards.

There are no Results for this SLO

Understand and interpret various points of view that emerge from a diverse world of peoples and cultures.

There are no Results for this SLO

Represent complex data in various mathematical forms (e.g., equations, graphs, diagrams, tables, and words) and analyze these data to draw appropriate conclusions.

CAN Dept - Physics

CAN PHYS 210 : General Physics I

Newton's Laws: Perform an analysis of a physical system in terms of forces, velocities displacements and accelerations and time using Newton's laws.

CAN PHYS 210 : General Physics I

Energy: Analyze the motion of a body (rotational or linear) in terms or momentum, kinetic energy, and potential energy.

CAN PHYS 210 : General Physics I

Thermodynamics: Perform an analysis of isobaric, isochoric, isothermal and adiabatic processes in their relation to work, heat transfer, and changes in internal energy.

CAN PHYS 220 : General Physics II

DC Circuits: Analyze and explain the behavior of simple DC circuits with resistors, capacitors, and batteries.

CAN PHYS 220 : General Physics II

Optics: Analyze the reflection and refraction of light in terms of geometrical optics in different media.

CAN PHYS 220 : General Physics II

Modern Physics: Describe the photo-electric effect, the Compton effect, quantization of energy and the Bohr model of the atom.

CAN PHYS 250 : Physics with Calculus I

Newton's Laws: Perform an analysis of a physical system in terms of forces, velocities displacements and accelerations and time using Newton's laws.

CAN PHYS 250 : Physics with Calculus I

Energy: Analyze the motion of a body (rotational or linear) in terms or momentum, kinetic energy, and potential energy.

CAN PHYS 250 : Physics with Calculus I

Laboratory Experience: Setup, perform, analyze, and document an experiment.

CAN PHYS 260 : Physics with Calculus II

EForce: Analyze electric forces and fields created by a system of charged particles

CAN PHYS 260 : Physics with Calculus II

ACDC: Analyze and explain the behavior of simple AC & DC circuits with resistors, capacitors, and inductors

CAN PHYS 260 : Physics with Calculus II

Induction: Solve problems involving induced electric and magnetic fields

CAN PHYS 270 : Physics with Calculus III

Represent complex data in various mathematical forms (e.g., equations, graphs, diagrams, tables, and words) and analyze these data to draw appropriate conclusions.

CAN PHYS 270 : Physics with Calculus III

Thermodynamics: Perform an analysis of isobaric, isochoric, isothermal and adiabatic processes in their relation to work, heat transfer, and changes in internal energy.

CAN PHYS 270 : Physics with Calculus III

Optics: Analyze the reflection and refraction of light in terms of geometrical optics in different media.

CAN PHYS 270 : Physics with Calculus III

Special Relativity: Explain the principle assumptions of Special Relativity and able to perform calculations involving relativistic kinematics.

CAN PHYS 270 : Physics with Calculus III

Modern Physics: Describe the photo-electric effect, the Compton effect, quantization of energy and the Bohr model of the atom.