COURSE DETAIL

INTRODUCTION TO PHYSICS
Country Japan
Host Institution Tohoku University
Program(s) Engineering and Science
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Physics
UCEAP Course Number 30
UCEAP Course Suffix
UCEAP Official Title INTRODUCTION TO PHYSICS
UCEAP Transcript Title INTRO PHYSICS
UCEAP Quarter Units 3.00
UCEAP Semester Units 2.00

Course Description

This course is intended for students without any or little background in physics and calculus. Important concepts in physics such as force, momentum, energy, angular momentum, and laws of conservation are introduced through Newtonian mechanics. In addition, these concepts are described in the language of mathematical equations, specifically through calculus.

The course aims to teach Newton's laws of motion, momentum, and energy, and angular momentum as well as their conservation properties. In addition, students will be expected to be able to draw a free-body diagram, derive an equation of motion, and solve it using simple vector algebra and calculus.

Language(s) of Instruction
English

Host Institution Course Number
N/A

Host Institution Course Title
PHYSICS A: INTRODUCTORY PHYSICS

Host Institution Course Details
https://gkms3.bureau.tohoku.ac.jp/sa_qj/slbssbdr.do?value(risyunen)=2023&value(...

Host Institution Campus
Tohoku University

Host Institution Faculty

Host Institution Degree

Host Institution Department
Collegewide

Course Last Reviewed

2023-2024

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