

COURSE DETAIL

ESCAPE FROM SCIENTIFIC ABSURDITY

Country

Korea, South

Host Institution

Korea University

Program(s)

Korea University

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

33

UCEAP Course Suffix**UCEAP Official Title**

ESCAPE FROM SCIENTIFIC ABSURDITY

UCEAP Transcript Title

SCIENTIFIC ABSURDTY

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course explores how physicists developed quantitative reasoning to deepen the understanding of natural phenomena and to escape from scientific absurdity. It focuses on Newtonian Mechanics in three dimensional Euclidean space. The course also covers quantitative approaches beginning with elementary algebraic methods to reach differential Calculus invented by physicists, Newton, and Leibniz independently. Finally, the course investigates the Lagrangian and Hamiltonian versions of classical mechanics that are equivalent to the Newtonian version.

Language(s) of Instruction

English

Host Institution Course Number

GEST152

Host Institution Course Title

ESCAPE FROM SCIENTIFIC ABSURDITY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

General Education

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