COURSE DETAIL

PHYSICS AND UNCERTAINTY: FROM QUANTUM JUMPS TO STOCK MARKET CRASHES

Country
United Kingdom - England

Host Institution
London School of Economics

Program(s)
London School of Economics

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Physics Economics

UCEAP Course Number
113

UCEAP Course Suffix

UCEAP Official Title
PHYSICS AND UNCERTAINTY: FROM QUANTUM JUMPS TO STOCK MARKET CRASHES

UCEAP Transcript Title
PHYSICS&UNCERTAINTY

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

Students in this course explore some of the important conceptual and philosophical questions underlying physics and finance, like: How are assumptions about randomness compatible with observed forms of determinism? How is it possible to seek truth using statistical theories? What does it mean to be an atom? How does the quantum world differ from the everyday world? What explains why physical models have unexpected applications in finance? To what extent do such applications help to underpin how the prices of financial instruments are set? This course will proceed at a conceptual level that is suitable for students of all backgrounds: no background in physics is needed, and there is no advantage to having one.

Language(s) of Instruction
English

Host Institution Course Number
PH232

Host Institution Course Title
PHYSICS AND UNCERTAINTY: FROM QUANTUM JUMPS TO STOCK MARKET CRASHES

Host Institution Course Details
https://www.lse.ac.uk/resources/calendar2023-2024/courseGuides/PH/2023_PH232.htm

Host Institution Campus
The Strand

Host Institution Faculty

Host Institution Degree

Host Institution Department
Philosophy, Logic and Scientific Method

Course Last Reviewed
2023-2024

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