COURSE DETAIL

PHILOSOPHY OF MATHEMATICS
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Berlin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Philosophy Mathematics
UCEAP Course Number 108
UCEAP Course Suffix
UCEAP Official Title PHILOSOPHY OF MATHEMATICS
UCEAP Transcript Title PHILOSOPHY OF MATH
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

In this course, students learn about a number of key topics in the philosophy of mathematics. It ensure students are familiar with the main views such as Platonism, nominalism, logicism, formalism, intuitionism, and structuralism, as well as the main criticisms of each. Students learn about the philosophical significance of Russell's paradox and Gödel's incompleteness theorems. From here, they consider topics in the philosophy of mathematical practice, such as the nature of mathematical proofs, the use of diagrams in mathematical reasoning, explanation and understanding in mathematics, mathematical knowledge, and the ethics of mathematics.

Language(s) of Instruction
English

Host Institution Course Number
3130 L 018

Host Institution Course Title
PHILOSOPHY OF MATHEMATICS

Host Institution Course Details
https://moseskonto.tu-berlin.de/moses/verzeichnis/veranstaltungen/veranstaltung...

Host Institution Campus
Technische Universität Berlin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Institut für Philosophie, Literatur-, Wissenschafts- und Technikgeschichte

Course Last Reviewed
2022-2023

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