COURSE DETAIL

LOGIC II
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Berlin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Philosophy
UCEAP Course Number 107
UCEAP Course Suffix
UCEAP Official Title LOGIC II
UCEAP Transcript Title LOGIC II
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

In this course we will explore a wide range of alternative logical systems for modelling different phenomena. We will look at the semantics and proof theory for modal logics (the logic of possibility and necessity), intuitionistic logic (the logic of constructive mathematics), “gappy” logics (where some truth values are underdetermined), the logic of paradox (where paradoxes can be true without the logic being trivial), deontic logic (the logic of actions and obligations), and dynamic epistemic logic (logics for tracking our knowledge in a changing epistemic environment). For each we will look at the philosophical motivations and payoffs that the logic has, as well as strengths and weaknesses of the formalisation.

Language(s) of Instruction
English

Host Institution Course Number
3130 L 018

Host Institution Course Title
LOGIK II

Host Institution Course Details
https://moseskonto.tu-berlin.de/moses/modultransfersystem/bolognamodule/beschre...

Host Institution Campus
Technische Universität Berlin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Institut für Softwaretechnik und Theoretische Informatik

Course Last Reviewed
2023-2024

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