COURSE DETAIL

EINSTEIN'S UNIVERSE AND QUANTUM WEIRDNESS
Country Singapore
Host Institution National University of Singapore
Program(s) National University of Singapore
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Physics
UCEAP Course Number 27
UCEAP Course Suffix
UCEAP Official Title EINSTEIN'S UNIVERSE AND QUANTUM WEIRDNESS
UCEAP Transcript Title EINSTEIN UNIVERSE
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course introduces (with history & philosophy of science) two of the most important developments in modern physics: relativity and quantum theory. Topics: the concept of absolute and relative space and time, the twin paradox, black holes and wormholes, wave-particle duality of matter, Heisenberg's uncertainty principle, Schrodinger's cat, the ultimate constituents of matter, grand unification and superstrings, and how these theories can contribute to the technology of tomorrow. Concepts are emphasized, while omitting the technical details.

Language(s) of Instruction
English

Host Institution Course Number
GEH1027/GEK1508

Host Institution Course Title
EINSTEIN'S UNIVERSE AND QUANTUM WEIRDNESS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Physics

Course Last Reviewed

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