

COURSE DETAIL

GENERAL RELATIVITY

Country

Iceland

Host Institution

University of Iceland

Program(s)

University of Iceland

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

115

UCEAP Course Suffix**UCEAP Official Title**

GENERAL RELATIVITY

UCEAP Transcript Title

GENERAL RELATIVITY

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

This course provides an introduction to Einstein's relativity theory: Special relativity, four-vectors and tensors. General relativity, spacetime curvature, the equivalence principle, Einstein's equations, experimental tests within the solar system, gravitational waves, black holes, and cosmology.

Language(s) of Instruction

English

Host Institution Course Number

EDL610M

Host Institution Course Title

GENERAL RELATIVITY

Host Institution Campus

Host Institution Faculty

Engineering and Natural Sciences

Host Institution Degree

Host Institution Department

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