

COURSE DETAIL

EARLY UNIVERSE

Country

United Kingdom - England

Host Institution

University of Manchester

Program(s)

University of Manchester

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

153

UCEAP Course Suffix**UCEAP Official Title**

EARLY UNIVERSE

UCEAP Transcript Title

EARLY UNIVERSE

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

In this course, students learn how to formulate the linear theory of structure formation in the CDM model, obtain solutions in simple model cases of a one component universe; explain the problems of big bang cosmology and the way to solve them in inflationary theory; calculate basic cosmological parameters in inflationary slow roll models; indicate the relations of the Cosmic Microwave Background Radiation and cosmological parameters; and discuss the evidence for an accelerating universe and the possible role of dark energy.

Language(s) of Instruction

English

Host Institution Course Number

PHYS40772

Host Institution Course Title

EARLY UNIVERSE

Host Institution Course Details

<https://www.manchester.ac.uk/study/undergraduate/courses/2024/02021/mphys-physi...>

Host Institution Campus

University of Manchester

Host Institution Faculty

Physics

Host Institution Degree

Host Institution Department

Course Last Reviewed

2023-2024

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