

COURSE DETAIL

DYNAMICAL SYSTEM AND CHAOS

Country

Sweden

Host Institution

Uppsala University

Program(s)

Uppsala University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

118

UCEAP Course Suffix**UCEAP Official Title**

DYNAMICAL SYSTEM AND CHAOS

UCEAP Transcript Title

DYNAMICAL SYS&CHAOS

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

Most processes in nature are complex and dynamical. This is also true for many problems encountered by engineers and scientists in their professional life. In this course students get tools to analyse such dynamical systems. They learn to determine if, when, and how chaotic behavior occurs. The course focuses on applications in fields such as physics, biology, chemistry, and engineering. The previous experience of the participants is taken into account and made use of in the course and the examples studied.

Language(s) of Instruction

English

Host Institution Course Number

1FA152

Host Institution Course Title

DYNAMICAL SYSTEM AND CHAOS

Host Institution Campus

Uppsala University

Host Institution Faculty

Host Institution Degree

Host Institution Department

Department of Physics and Astronomy

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