

COURSE DETAIL

COMPUTATIONAL ENGINEERING

Country

Germany

Host Institution

Technical University Berlin

Program(s)

Technical University Summer

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering Computer Science

UCEAP Course Number

104

UCEAP Course Suffix**UCEAP Official Title**

COMPUTATIONAL ENGINEERING

UCEAP Transcript Title

COMPUTATIONAL ENGR

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

In this course, students learn the theory of mechanics and electromagnetism for computing engineering systems like MEMS (Micro/nano electro Mechanical Systems), which are used daily in several electronic devices. The emphasis of this course is on a theoretical understanding of problems in continuum mechanics and electromagnetism, as well as their computations. Participants understand and apply the theory of electromagnetism for deformable bodies by using open-source codes in Python (programming language) and simulate physical systems using their own laptop.

Language(s) of Instruction

English

Host Institution Course Number

Host Institution Course Title

COMPUTATIONAL ENGINEERING

Host Institution Course Details

Host Institution Campus

TUBS

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

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