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

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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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