COURSE DETAIL

SCIENTIFIC COMPUTING
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Berlin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 122
UCEAP Course Suffix
UCEAP Official Title SCIENTIFIC COMPUTING
UCEAP Transcript Title SCIENTIFIC COMPUTNG
UCEAP Quarter Units 5.50
UCEAP Semester Units 3.70

Course Description
This course on scientific computing covers the following topics: numerical methods focusing on partial differential equations (finite elements, finite volumes, mesh generation, linear and nonlinear solvers, iterative methods), their implementation and programming, computer languages (mainly C++, with introduction; python), parallelization, visualization, and software tools.

Language(s) of Instruction
English

Host Institution Course Number
3236 L 216

Host Institution Course Title
WISSENSCHAFTLICHES RECHNEN (SCIENTIFIC COMPUTING)

Host Institution Course Details

Host Institution Campus
FAKULTÄT II MATHEMATIK UND NATURWISSENSCHAFTEN

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematik

Course Last Reviewed

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