COURSE DETAIL

HIGH PERFORMANCE COMPUTING

Country
Iceland

Host Institution
University of Iceland

Program(s)
University of Iceland

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
132

UCEAP Course Suffix

UCEAP Official Title
HIGH PERFORMANCE COMPUTING

UCEAP Transcript Title
HIGH PERFORMNC COMP

UCEAP Quarter Units
5.00

UCEAP Semester Units
3.30

Course Description

Main topics include the design of parallel computers and parallel programming models; shared memory architecture; message passing and distributed memory architecture; parallel programming of computer clusters using MPI and multicore programming using OpenMP; parallel algorithms for sorting, searching, linear algebra, and various graph problems.

Language(s) of Instruction
English

Host Institution Course Number
REI204M

Host Institution Course Title
HIGH PERFORMANCE COMPUTING

Host Institution Campus

Host Institution Faculty
Engineering and Natural Sciences

Host Institution Degree

Host Institution Department

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