COURSE DETAIL

NANOMATERIALS: THERMODYNAMICS AND KINETICS
Country Sweden
Host Institution Lund University
Program(s) Lund University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Physics Mechanical Engineering Materials Science
UCEAP Course Number 175
UCEAP Course Suffix
UCEAP Official Title NANOMATERIALS: THERMODYNAMICS AND KINETICS
UCEAP Transcript Title NANOMAT:THERMODYNMC
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course offers an overview of thermodynamic phenomena and kinetic processes from a materials science perspective, with application towards nanomaterials. Topics covered: review of basic thermodynamics; thermodynamic equilibrium; phase equilibria and phase diagrams; reactions and reaction kinetics; heat transport; mass transport in solids and fluids; size effects.

Language(s) of Instruction
English

Host Institution Course Number
FFFN05/FYST40

Host Institution Course Title
NANOMATERIALS - THERMODYNAMICS AND KINETICS

Host Institution Course Details

Host Institution Campus
Engineering/Science

Host Institution Faculty

Host Institution Degree

Host Institution Department
Engineering- Physics

Course Last Reviewed

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