Department: 06 Applied Sciences and Mechatronics

Course title: Heat and Mass Transfer

Hours per week (SWS): 4

Number of ECTS credits: 5

Course objective: Quantitative understanding and simulation of the heat and mass transport mechanisms occurring in nature and technology

Prerequisites: 4 semester in physics or engineering

Recommended reading: Classical Physics in P.A. Tipler, Halliday or Demtröder

Teaching methods: 2h lecture and 2h internship: modeling with EES (engineering equation solver)

Assessment methods: 100% written exam 90'

Language of instruction: English

Name of lecturer: Prof. Dr. Alfred Kersch

Email: akersch@hm.edu


Course content: principles of heat and mass transfer, mathematical description, examples, simulation with EES

Remarks: elective module in 6th semester of the bachelor program