Faculty	School of Nature and Engineering (5)
Course Title	Computational Fluid Dynamics II
Number of ECTS credits	6
Hours per week (SWS)	4 + 1
Semester	Fall/winter: Bachelor
Course objective	Simulation of turbulent flows using openFOAM
Prerequisites	none
Recommended reading	Ferziger, JH, Perić M, Street RL (2020)Comutational Methods for Fluid Mechnics. 4th edition, Springer Nature, Cham
Teaching methods	Lecture + practical training (openFOAM)
Assessment methods	Presentation + report
Language of instruction	English (on demand)/German
Name of lecturer	Prof. Dr. Albert Baars
Email	albert.baars@hs-bremen.de
Link	
Course content	Introduction to turbulence, turbulence modelling (RANS, LES), Solution of linear equation systems, training of numerical simulations (inner, outer flows), interpretation of results