COURSE: Numerical optimization with engineering and CFD examples
Contact person: Boris Ljubenkov; boris.ljubenkov@fesb.hr

Main topics:
- Practical applications of Computational Fluid Dynamics (CFD)
- Engineering optimization models for decision making
- Computer Aided Design (CAD) methods for engineering optimization
- Constructing a numerical optimization workflow for the optimization

Programme structure:
- 5-day course
- Sample files will be provided for practice
- Lecture notes will be available both in on-line and printed forms

Important dates:
Course dates: 02/09/2019 – 06/09/2019
Deadline for application: 01/08/2019
Confirmation of the course: 15/08/2019
Payment due by: 24/08/2019

Price of the course: 300 € (tax included)

Programme plan:
Day 1
- Introduction to engineering optimization (3h)
- Examples of engineering optimization problems (1h)
- Individual work/exercise (1h)
Day 2
- Basics of CAD in engineering optimization (1h)
- Application of CAD in engineering optimization software (3h)
- Individual work/exercise (1h)
Day 3
- Fundamental basis of CFD (1h)
- Engineering application of CFD with examples (3h)
- Individual work/exercise (1h)
Day 4
- Setup of a numerical workflow for shape optimization (4h)
- Individual work/exercise (1h)
Day 5
- Students’ final projects (4h)
- Final presentations (1h)

Programme lecturers:
Prof. dr.sc. Damir Vučina
Full professor at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Dr. sc. Ivo Marinić-Kragić
Teaching/research assistant at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture
Mag. ing. Josip Bašić
Teaching/research assistant at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture