



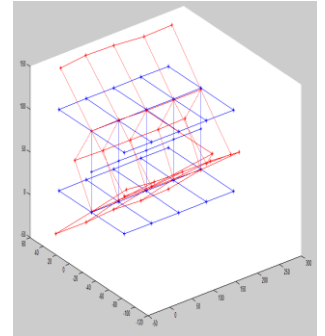
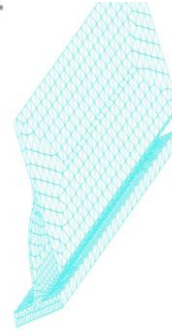
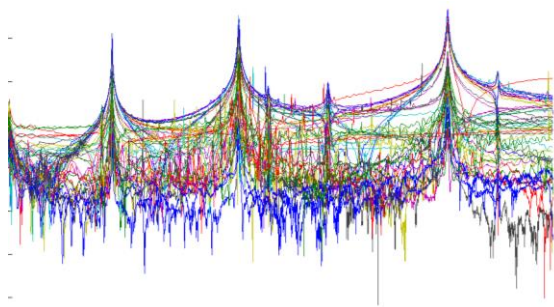
SPLIT SUMMER SCHOOL STSS2020

COURSE: Measurement and Experimental analysis of vibration

Contact person: Boris Ljubenkovic; boris.ljubenkovic@fesb.hr

Main topics:

- Vibrations of single degree and multi degrees of freedom systems
- Applications of the measuring equipment for the vibrational testing using the selected modal identification procedures
- Analysis of dynamic signal
- Carry out experimental modal analysis using the standard equipment and computer software



Programme structure:

- 5-day course
- Sample data will be provided for practice and for final presentation
- Lecture notes will be available either on-line or in printed form

Important dates:

Course dates: 31/08/2020 – 04/09/2020
Deadline for application: 01/08/2020
Confirmation of the course: 15/08/2020
Payment due by: 24/08/2020

Price of the course: 300 € (tax included)

Programme plan:

- Day 1
- Introduction to the basis of vibration (3h)
Vibration sensors, vibration exciters, measurement chain (1h)
 - Individual work/exercise (1h)
- Day 2
- Measurement of the frequency response function (FRF) (4h)
 - Individual work/exercise (1h)
- Day 3
- Analysis of measured signals in the time domain(2h)
Analysis of measured signals in the frequency domain (2h)
 - Individual work/exercise (1h)
- Day 4
- System identification (4h)
 - Individual work/exercise (1h)
- Day 5
- Students' final projects (4h)
 - Final presentations (1h)

Programme lecturers:

- Ph. D. Damir Sedlar M. Mech. Eng,
Teaching/assistant professor at the University of Split,
Faculty of Electrical Engineering, Mechanical Engineering
and Naval Architecture, Chair of Dynamic and Vibrations,
Split, Croatia.
- Ph. D. Ivan Tomac M. Mech. Eng,
Teaching/assistant professor at the University of Split,
Faculty of Electrical Engineering, Mechanical Engineering
and Naval Architecture, Chair of Dynamic and Vibrations,
Split, Croatia.