Concrete and Masonry Structures 4: 133CM04 (2+2)
Summer term 2016-2017

Schedule of lectures:

n.	Content	Lecturer
1	Materials, concrete, steel, assessment of reinforced concrete (bending and shear)	Štemberk
2	Reinforced concrete slab – bending and torsion	Štemberk
3	Reinforced concrete slabs – general shapes, punching shear	Štemberk
4	Reinforced concrete walls	Štemberk
5	Theory of plasticity – applications for reinforced concrete structures	Štemberk
6	Deformation of concrete structures (deflection)	Štemberk
7	Analysis of reinforced concrete structures using the software (calculation programs)	Štemberk
8	Strut-and-tie model – principles, examples	Štemberk
9	Nonlinear analysis of reinforced concrete structures (eg. Atena)	Štemberk
10	Design – probabilistic approaches, global degree of reliability	Štemberk
11	Foundation structures and industrial floors	Štemberk
12	Advanced concrete structures – overview and design	Štemberk
13	Advanced concrete structures – examples of design	Štemberk