



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

Schedule of seminars:

č.	Content
1	Assignment no. 1 - General shaped slab: model in software, deformation, bending and torsion moment, design moments, diagram m_{ϕ} , design of reinforcement (ULS), sketch of lower and upper reinforcement
2	Drawing in hand - example on seminar: bending moment on cross-section, isolines of the zero bending moment, calculation of bending moments; Consultation of assignment no. 1
3	Consultation and submission of assignment no. 1
4	Assignment no. 2 - Wall with opening: model in software, deformation, distribution of stresses, shear stress, design stresses, diagram σ_{ϕ} , $f_{td\phi}$ and $f_{cd\phi}$, design of reinforcement (ULS), sketch of the reinforcement of the whole wall; Consultation and submission of assignment no. 1
5	Drawing in hand - example on seminar: deformation of the structure, trajectory of principal stresses, cracks; Consultation of assignment no. 2
6	Consultation and submission of assignment no. 2
7	Assignment no. 3 - Combination of forces M+N+V+T: internal forces calculation, design of bending and shear reinforcement; Consultation and submission of assignment no. 2
8	Consultation and submission of assignment no. 3
9	Assignment no. 4 - Strut-and-tie model: design of strut-and-tie model, internal forces, design of reinforcement, assessment of model elements, sketch of reinforcement; Consultation and submission of assignment no. 3
10	Example on seminar: deformation of the structure, trajectory of principal stresses; Consultation - approval of the strut-and-tie model
11	Consultation and submission of assignment no. 4
12	Consultation and submission of assignment no. 4
13	Reserve