

SUSCOS 2013/2015: 2C09 – Design for seismic and climate changes

Date	Lectures: 8.30-10.00	Lectures: 10.30-12.00	Design Applications: 14.00-16.00 (TP).	Practice (individual work) 16.00-18.00
10.03.2014	L1: Design for climate change effects DD	L2: Dynamic response of single-degree-of-freedom systems I DG	TU1: Snow storm effects on a large-span industrial hall. FD	
11.03.2014	L3: Dynamic response of single-degree-of-freedom systems II DG	L4: Dynamic analysis of multi-degree-of-freedom systems I DG	TU2: Dynamic response of single-degree-of-freedom systems. NFV	
12.03.2014	L5: Dynamic analysis of multi-degree-of-freedom systems II DG	L6: Numerical evaluation of dynamic response AS	TU3: Natural modes of vibration of a multi-degree-of-freedom system. NFV	
13.03.2014	L7: Fundamentals of engineering seismology AS	L8: Seismic response of SDOF systems AS	TU4: Time-history response of SDOF systems. NFV	
14.03.2014	L9: Seismic analysis of elastic MDOF systems AS	L10: Characterisation of seismic motion AS	TU5: Lateral force method and modal response spectrum analysis. NFV	
Weekend				

Date	Lectures: 8.30-10.00	Lectures: 10.30-12.00	Design Applications: 14.00-16.00 (TP).	Practice (individual work) 16.00-18.00
17.03.2014	L11: Seismic hazard and risk. Examples of recent earthquakes. MD	L12: Principles of earthquake-resistant design. Practical aspects of earthquake resistant design. MD	TU6: Lateral force method and modal response spectrum analysis (computer analysis). NFV	
18.03.2014	L13: Eurocode 8 provisions for earthquake-resistant design of structures I MD	L14: Eurocode 8 provisions for earthquake-resistant design of structures II MD	TU7: Design and verification of a steel moment resisting frame. MD	
19.03.2014	L15: Seismic Design of Steel Structures I MD	L16: Seismic Design of Steel Structures II MD	TU8: Design and verification of a steel concentrically braced frame. MD	
20.03.2014	L17: Seismic analysis of inelastic MDOF systems I AS	L18: Seismic analysis of inelastic MDOF systems II AS	TU9: Pushover analysis and determination of target displacement for a steel moment resisting frame. AS	
21.03.2014	L19: Performance-based seismic design AS	L20: Seismic response control AS	TU10: Nonlinear dynamic analysis of a steel moment resisting frame. AS	
weekend				
24.03.2014				
25.03.2014				
26.03.2014			TP Deadline	
27.03.2014				
28.03.2014	EXAMINATION			

DD – Dan Dubina, AS –Aurel Stratan, DG – Daniel Grecea, FD – Florea Dinu, MD – Mario D'Aniello, NFV – Norin Filip-Văcărescu.