

MSc in Infrastructure – Civil Engineering

Name of degree programme: Infrastructure Civil Engineering MSc

Academic level of degree: Masters

Qualification obtained: Infrastructure Civil Engineer

Duration of degree programme: 3 semesters

Necessary no. of credits for degree: 90 credits

Curriculum: beginning in **Autumn** semester

Program coordinator: Dr. Attila Borsos (borsosa@sze.hu) <https://kep.sze.hu/munkatarsak>

List of courses

Number of lectures / Number of credits / exam=e, assignment=a

Subjects	Semester		
	1	2	3
Natural Sciences			
Numerical methods		3/4 e	
Mechanics for Civil Engineering	3/4 e		
Noise and vibration control	3/4 e		
Economic and human sciences			
Engineering publication and presentation	2/2 e		
Engineering Ethics	2/2 a		
Professional subjects			
Sustainable settlements and transport	3/4 e		
Road and railway construction	3/4 e		
Hydraulic engineering	3/4 e		
Earthworks	3/4 e		
Bridge construction		3/4 e	
Tunnels		3/4 e	
Diploma thesis			1/20
Compulsory courses			
Road design and traffic engineering		3/4 e	
Road pavements			3/4 e
Case studies in railway construction			2/3 a
Geotechnical structures and technologies		3/4 e	
Case studies in geotechnics			2/3 a
Elective courses (12 credits should be obtained)			
Pedestrian and cycle traffic		3/4 e	
Traffic safety			3/4 e
Road construction materials		3/4 e	
Railway track diagnostics		3/4 e	
Geotechnical design I.		3/4 e	
Geotechnical design II.			3/4 e
Advanced soil mechanics			3/4 e
Soil investigation and testing		3/4 a	
Seismic design		3/4 e	