

MSc in Infrastructure Engineering (Transport Infrastructure, Geotechnics and Water Resources)

Programme coordinator
Prof. Attila Borsos

Faculty/departments

Faculty of Architecture, Civil and Transportation Engineering Dean: Dr. János Szép, assoc. prof.

6 departments

Department of Transport Infrastructure and Water Ressources Head: Dr. Emese Makó, assoc. prof. Room C401

Department of Structural and Geotechnical Engineering Head: Dr. János Szép, assoc. prof. Room D405

Department of Transportation

Head: Dr. habil. Balázs Horváth, assoc. prof.

(plus 3 Departments in the field of Architecture)

Study programme

- 3 semesters (1.5 years) since 2009 in Hungarian
- Since 2014 in English

Number of students:

- English programme ~15 students
- Hungarian part-time ~50-70 students

2024. 07. 31.

Study programme

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

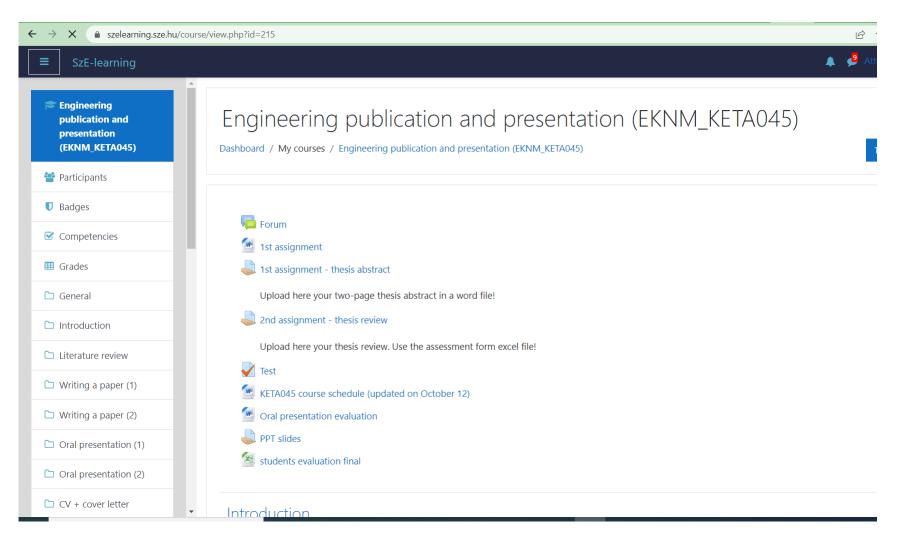
Study programme

Subjects	Semester		
	1	2	3
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	

Neptun http://neptun.sze.hu/



Moodle https://szelearning.sze.hu



Some general recommendations

The MSc programme:

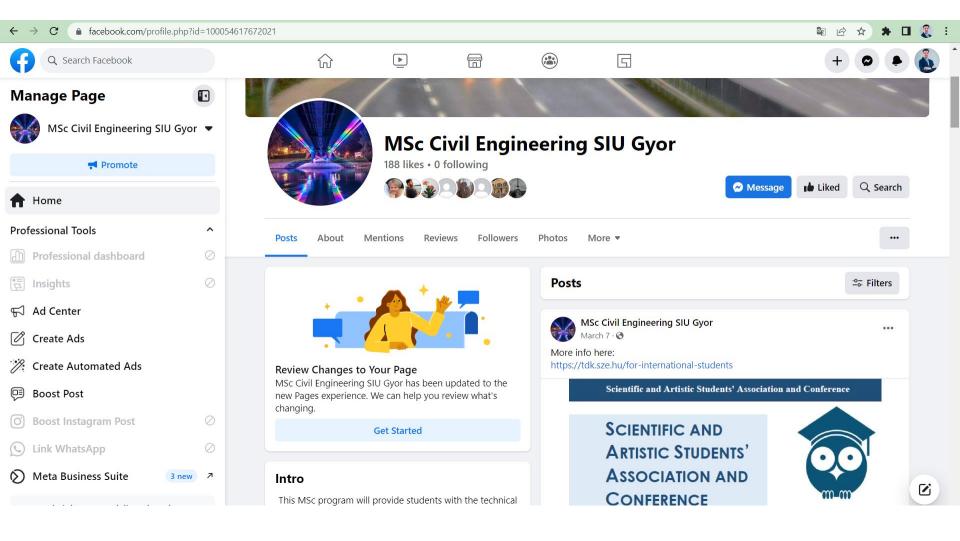
- up-to-date knowledge
- complex tasks
- international / European practices
- Please find your strengths
- Ask for individual tasks in your favourite field
- Diploma thesis: start early (choose a topic)

Multidisciplinary Doctoral School in Engineering Sciences

Authorized to give PhD titles in

- Civil Engineering
- Transportation Engineering
- Information Technology
- (4 years)

Find us on Facebook!



Questions

Coordinators: Attila Borsos, C410, <u>borsosa@sze.hu</u>

Mentor:

Fahad Mohammad, C408, fahad.mohammad@sze.hu