

# Forensic Geotechnical Engineering HS 2024

Mondays, 9:45-11:30, HIL E 7

## *Syllabus*

<i>Date</i>	<i>Lectures and Tutorials</i>
23.09.24	<b>L 0: Introduction</b> <b>L 1: Interaction between Neighbouring Structures</b> Mexico City Metropolitan Cathedral, Mexico
30.09.24	<b>L 2: Unexpected Excessive Settlements</b> Kansai International Airport, Japan
07.10.24	<b>Tutorial:</b> Exercises 1 and 2
14.10.24	<b>L 3: Leaning Instability</b> Leaning Tower of Pisa, Italy
21.10.24	<b>L 4: Bearing Capacity Failure</b> Transcona Grain Elevator, Canada
28.10.24	<b>Tutorial:</b> Exercises 3 and 4
04.11.24	<b>L 5: Braced Excavation Collapse</b> Nicoll Highway, Singapore
11.11.24	<b>L 6: Failure in the Creeping Landslides</b> Brattas Landslide (St. Moritz), Switzerland
18.11.24	<b>Tutorial:</b> Exercises 5 and 6
25.11.24	<b>L 7: Failure Evolution in Submarine Landslides</b> Caspian Sea, Azerbaijan
02.12.24	<b>L 8: Pressures in the Landslide Influence Zone</b> Zürichberg (Zürich), Switzerland
09.12.24	<b>L 9: Delayed Failure in Snow Avalanches</b> Rigopiano (Italy), Western Himalaya (India) and Urals (Russia)
16.12.24	<b>Tutorial:</b> Exercises 7 and 8. Exam info.

***Examination***

Written examination (2h)

***Assistants***

Tinet Ruch	HIF C 89.2, HIL C 20.1*	<a href="mailto:tinnet.ruch@igt.baug.ethz.ch">tinnet.ruch@igt.baug.ethz.ch</a>
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\*From September 16th to November 4th. From November 4th: HIL C 20.1

***Office hours***

Mondays, 14:00 – 15:00, *in person*, HIF C 89.2/ HIL C 20.1\*

The office hour will be held in person.

In case you wish an online meeting, please send your request to [tinnet.ruch@igt.baug.ethz.ch](mailto:tinnet.ruch@igt.baug.ethz.ch). For meetings in person, no registration is necessary.

***Homepage***

<https://geomechanics.ethz.ch/education/courses/forensic-geotechnical-engineering.html>