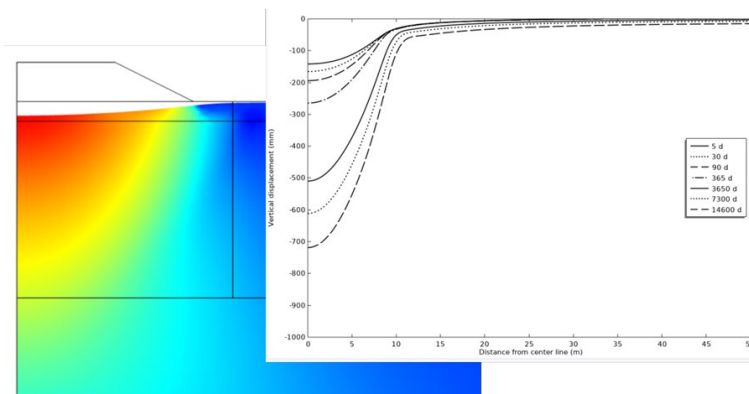


Kandidatarbete
Examenskod ACEX11



Class A Settlement prediction on future test embankment

Predicting the time-dependent settlements and the final settlements of road and railway embankment on soft soils is not trivial.

This project is about predicting the settlement of a future test embankment on a test site, so-called class A prediction, established by Geotechnical group at Chalmers just north of Gothenburg center. The settlement prediction should be based on field and laboratory data and conducted in a 1-D to 3D numerical software, e.g., Plaxis, COMSOL.

The project also aims to include the possible environmental effects that could affect an embankment in both short- and long-term behavior. The project can be done either in English or Swedish.

Literature recommendation:

- BOM370 course materials, plus relevant papers and book chapters.
- Related SGI reports (SGI info 3, 13 etc)

Target group of students
TKSAM

Group size
3-6

Special requirements
BOM356

Suggestion from

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Can the project be duplicated?

Yes

If any of the following aspects to be integrated

☐ Digitalization

☒ Sustainability

☒ Climate change

☐ Gender equality, equal treatment and diversity

☐ Other