Graz University of Technology
INSTITUTE OF ROCK MECHANICS AND TUNNELLING
HEAD: UNIV. - PROF. DIPL. - ING. DR. - ING. THOMAS MARCHER

TU Graz
Graz University of Technology

MLGT
Machine Learning in Geotechnics

NAWI Graz
GEOZENTRUM

Applied Data Analysis for Geotechnics

Georg H. Erharter, Manuel Winkler

python™

Content

The course aims at teaching the very basics of data analysis by means of programming with Python for students of civil engineering and earth sciences. Among other topics the course will cover: data-types, control structures, functions, plots, data input & output, modules...
Short theoretical instructions will be followed by extensive exercises concerning examples of engineering geology, tunnelling, rock mechanics or soil mechanics.

Previous Knowledge Expected

None

Objective

After the course students will know the benefits of writing code with Python and how programming can be used for solving geotechnical problems.

Organizational

- dates: 4 x 4h in May & June 2020;
  25.05., 26.05., 03.06, 04.06 (08:15 - 11:30)
- language: English (German)
- max. participants: 20
- registration: email to *erharter@tugraz.at*
- if needed, laptops will be provided on
   request during course registration