STUDENTS’ VISIONS ON MICROPILE WALL APPLICATIONS: HOW TO CONSTRUCT A LARGE DIAMETER PILE OR AN UNDERPASS

Innovation Pedagogy
The New Culture of Learning
Innovation Pedagogy

Innovation pedagogy is a new culture of learning in which learning happens by:

- Experimenting
- Learning from and with others
- Combining different information sources and (working)life experiences
- Taking a multidisciplinary approach
- Applying a problem- and goal-oriented approach
As a teacher in the new culture of learning

- Learning enabler
- Guiding in the culture of experimentation, teaching to learn
- As a contact between working life and the learner
- Emphasising a goal-oriented and entrepreneurial attitude
- Providing feedback and encouragement
- Supervising and organising favourable learning environments and situations
- Providing the necessary basic information, linked to real life situations and problems
As a learner in the new culture of learning

Learning
• From and with others,
• Multidisciplinary,
• Creatively,
• By experimenting,
• By combining different sources of information and expertise
Invention as an environment for learning
STUDENTS’ VISIONS:
HOW TO CONSTRUCT A LARGE DIAMETER PILE

MIXED SOIL/GROUT
CT-PILE
GROUT
STUDENTS’ VISIONS:
HOW TO CONSTRUCT
A LARGE DIAMETER PILE
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E.G. DEEP MIXING

MIXED SOIL/GROUT

GROUT

C-PILE

CT-PILE

"BUTT JOINT"
STUDENTS’ VISIONS:
HOW TO CONSTRUCT AN UNDERPASS
STUDENTS’ VISIONS:
HOW TO CONSTRUCT AN UNDERPASS
STUDENTS´ VISIONS:
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STUDENTS´ VISIONS:
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R&D of micropiles has offered an environment on innovation studies for tens of students at TUAS.

Especially new open section drilling method has challenged students to envision use of the CT micropile walls in unexpected applications.

In the production of innovations, learning and developing are often connected appearing as two aspects of the same concept. The student can learn several issues in the innovation process, covering, for example, tacit knowledge, networking and challenges to meet uncertainty.