



TRAINING COURSE

PLAXIS

GEOTECHNICAL MODELING USING PLAXIS 2D AND 3D
17th to 19th of January 2016

ORGANIZING COMMITTEE

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**GEOTECHNICAL MODELING USING PLAXIS 2D AND 3D
17th to 19th of January 2016**

**Tentative Schedule
Day 1, Sunday 17th of January 2016**

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| 8:00 - 9:00 | Registration | : Hall D1.0 |
| 9:00 - 9:30 | Coffee Break | : Hall D1.0 |
| 9:30 - 11:00 | Session 1-1 | Computer Lab (D4.309) <ul style="list-style-type: none">• Introduction to PLAXIS 2015• Finite Element Method in Geotechnical Engineering• Finite Element with Plaxis• Elastic calculations (case study) |
| 11:00 - 11:30 | Coffee Break | |
| 11:30 - 1:00 | Session 1-2 | Computer Lab (D4.309) <ul style="list-style-type: none">• Constitutive laws to model the stress-strain behavior, (Mohr-Coulomb model, nonlinear calculation)• Elasto-plastic analysis of shallow footing (MC, case study) |
| 1:00 - 2:00 | Lunch Break | Hall D1.0 |
| 2:00 - 3:30 | Session 1-3 | Computer Lab (D4.309) <ul style="list-style-type: none">• Constitutive laws to model the stress-strain behavior, (Hardening soil model)• Elasto-plastic analysis of shallow footing (HSM, case study) |
| 3:30 - 3:45 | Coffee Break | |
| 3:45 - 4:45 | Session 1-4 | Computer Lab (D4.309) <ul style="list-style-type: none">• Constitutive laws to model the stress-strain behavior, (Soft soil model with creep) |

Tentative Schedule
Day 2, Monday 18th of January 2016

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| 9:00 - 10:30 | Session 2-1 | Computer Lab (D4.309) <ul style="list-style-type: none">• Drained and undrained behavior• Consolidation and time dependent behavior by Plaxis |
| 10:30 - 10:45 | Coffee Break | |
| 10:45 - 12:00 | Session 2-2 | Computer Lab (D4.309) <ul style="list-style-type: none">• Elasto-plastic analysis of shallow footing considering its time dependent behavior (case study)• Determination of soil stiffness parameters |
| 12:00 - 1:00 | Lunch Break : Hall D1.0 | |
| 1:00 - 2:30 | Session 2-3 | Computer Lab (D4.309) <ul style="list-style-type: none">• Retaining structures of pit excavation• Support of pit excavation by Plaxis (case study) |
| 2:30 - 2:45 | Coffee Break | |
| 2:45 - 3:45 | Session 2-4 | Computer Lab (D4.309) <ul style="list-style-type: none">• Support of pit excavation by Plaxis considering the groundwater pressure (case study) |

Tentative Schedule
Day 3, Monday 19th of January 2016

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| 9:00 - 10:30 | Session 3-1 | Computer Lab (D4.309) <ul style="list-style-type: none">• Embankment and slope stability by Plaxis (case study)• Piles and deep foundation |
| 10:30 - 10:45 | Coffee Break | |
| 10:45 - 12:00 | Session 3-2 | Computer Lab (D4.309) <ul style="list-style-type: none">• Piles by Plaxis (case study)• Tunneling• Tunnels by Plaxis (case study) |
| 12:00 - 1:00 | Lunch Break | : Hall D1.0 |
| 1:00 - 2:30 | Session 3-3 | Computer Lab (D4.309) <ul style="list-style-type: none">• Three Dimensional analyses by Plaxis |
| 2:30 - 2:45 | Coffee Break | |
| 2:45 - 3:45 | Session 3-4 | Computer Lab (D4.309) <ul style="list-style-type: none">• Raft analyses using Plaxis 3D |
| 3:45 - 4:45 | Session 3-5 | Computer Lab (D4.309) <ul style="list-style-type: none">• Closing and course evaluation |