Course Name: Ground Improvement

Course Number: 20894

Credit: 3

Course Content (outline):

1. Introduction
2. Groundwater Lowering & Drainage
3. Compaction
4. Dynamic Compaction
5. Deep Vibro Compaction Techniques
6. Permeation Grouting
7. Jet Grouting
8. Deep Excavations
9. In Situ Ground Reinforcement
10. Soil Mixing
11. Vertical Screens

References:

- “Ground Control and Improvement”, P.P.Xanthakos, L.W.Abramson, D.A.Bruce, John Wiley, 1994
- “Grouting of Rock and Soil”, C.Kutzner, Balkema, 1996
- “Chemical Grouting”, R. Karol, 1990
- Ground Improvement Journal, Thomas Telford
- Related Journals & Proceedings (16ICSMGE)
- Catalogs & Manuals
- Related Project & Technical Reports