Course Name:
Aqueous Systems Analysis Laboratory

Course Number:
20606

Credit:
1

Course Content (outline):
- Introduction, Sampling, Presentation of the results, Sensitivity and accuracy
- Basic chemistry review and familiarity with the laboratory safety
- Physico-chemical measurements
  - pH- Electrical conductivity- Alkalinity- Hardness- Temperature
  - Particles in water samples
  - Turbidity and coagulation
  - Dissolved oxygen
  - Biological Oxygen Demand (BOD)
  - Chemical Oxygen Demand (COD) and Total Organic Carbon (TOC)
  - Nitrogen analysis
  - Phosphorus analysis
- Chlorination
- Biodegradation of water-microorganisms
- Advanced analytical devices

References: