

Department of Civil Engineering
2012 Summer Semester
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Aquatic Environmental Science

14. Microbiology & Management

1. Microbiology
 - Overview
 - Role of microbes in nature
 - Microbial loop
 - Major microbes in aquatic environments
 - Metabolism
 - Growth rate and growth curve
 - Methods to detect microbes
 2. Stoichiometry and Kinetics
 3. Stable Isotope Ratio
 4. Management of Aquatic Environment
 - Maintaining natural system and biodiversity
 - Dam management
 - Important components to assess aquatic ecosystems
 - Riverbed geomorphology management
 5. Exercise
 6. Closing Remark
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