

**0902455**

## **Waste Water and Sanitary Engineering**

Physical, biological and chemical water quality and water quality parameterization. Water and environmental regulations. Standards and criteria. Unit operations and processes. Chemical and biological kinetics. Basics in water and wastewater engineering design. Wastewater generation and collection. Biological wastewater treatment and reuse. Population estimation. Water treatment design. Impact of source quality on treatment units' selection. Sedimentation, filtration, coagulation-flocculation and disinfection.