

## **Specialised Course on Water and Wastewater Analysis for Laboratory Personnel**

### **Course Contents**

- Introduction
- Water sample collection, preservation/storage and transportation
- Physical analysis of water and wastewater samples and interpretation of test results
- Bio-chemical analysis of water and wastewater samples & interpretation of test results
- Hydrogeology and geo-chemistry
- Chemical analysis of water and wastewater samples and interpretation of test results
- Treatment plant operation and
- Chemical dosing
- Analytical methods for the determination of arsenic in water
- Analysis of heavy metal in water and wastewater samples and interpretation of test results
- Principle and operation of atomic absorption spectrophotometer
- Microbiological analysis of water and wastewater samples and interpretation of test results
- Arsenic contamination in groundwater of bangladesh
- Principle of arsenic removal and different treatment methods
- Drinking water quality and industrial effluent standards
- Institutional framework for water quality surveillance
- Quality Assurance and Quality Control