Drinking water treatment plant design

Drinking water supplied by the utilities should meet specific water quality requirements to ensure that it has no adverse effect on human health, aesthetically acceptable to consumers, and is not detrimental to water distribution system infrastructure. Designing a drinking water treatment is a complex task requiring comprehensive and critical analysis of the quantity and quality of water available from different potential sources, selection of the most suitable source and abstraction method, as well as selection and logical sequencing of a set of appropriate treatment processes in order to meet the drinking water quality standards and guidelines with least cost. This problem-based learning module focuses on facilitating planning, design, operation and maintenance and rehabilitation of water treatment processes and plants.