

## **SEDV 607: WATER POLLUTION AND ITS IMPACT ON THE ENERGY SECTOR**

Water pollution, water chemistry, water and wastewater quality and quantities, conventional, non conventional and emerging contaminants, water and wastewater treatment methods, water usage and reuse options, municipal and industrial water treatment, water energy nexus, water requirements and pollution as related to energy sector

*Instructor:*

TBD

*Course Objective:*

To provide students with an overview of water and wastewater quality, water requirements and usage with special reference to the energy sector

*Topics Covered (Selected):*

- Introduction to water pollution
- Water and wastewater quality and quantity
- Water Energy Nexus
- Water pollution related to energy sector
- sources of water, intakes
- Water distribution systems and Wastewater collection systems
- Water and Wastewater Treatment Processes
- Water Reuse
- Industrial Water Treatment
- Produced Water in Oil and Gas Industry and Treatment Options