

**MTECH Admission for Foreign Students
Environmental Engineering Section
Department of Civil Engineering**

SYLLABUS:

QUALITY AND QUANTITY OF WATER

Water quality parameters – physical, chemical and biological, principles of their analysis. Drinking water quality standards. Water demand – types of demand, variation in demand, population forecast. Sources of water - Intake structures

WATER TREATMENT

Need for water treatment. Process details and design considerations of treatment units such as aeration, sedimentation, coagulation and flocculation, filtration and disinfection

AIR& NOISE POLLUTION:

Air pollution sources and effects. Meteorology, Control of gaseous and particulate air pollutants, Noise pollution and control

WASTEWATER GENERATION, COLLECTION AND TREATMENT

Wastewater Quantity - Classification of wastewater - Sewerage system for domestic wastewater and storm water - Collections, and appurtenances, Primary and secondary waste water treatment methods, Unit operation and processes

SOLID WASTE MANAGEMENT

Sources and collection of municipal solid wastes, characteristics of solid wastes, treatment ,disposal and management