MSc/PGD in Civil Infrastructural Engineering and Management – Course Schedule

MSc students are required to take a minimum of 30 credits of courses, including 6 credits of MSc Project, while PGD students are required to complete 15 credits. Students are given an option to complete a concentration in a selected sub-area.

**Tentative** course offering schedule:

### 2020-21 Fall Term

- CIEM 5140 Construction Project Delivery
- CIEM 5170 Building Information Modelling and Smart Construction
- CIEM 5311 Building Aerodynamics and Wind Resistant Design of High-rise Structures
- CIEM 5380 Bridge Engineering
- CIEM 5390 Coastal Structural Design
- CIEM 5410 Risk Assessment and Contaminated Land Cleanup
- CIEM 5460 Design and Management of Physico/Chemical Processes of Environmental Engineering
- CIEM 5480 Wastewater Treatment and Reuse
- CIEM 5620 Traffic Demand Analysis
- CIEM 5720 Advanced Foundation Design
- CIEM 5740 Computer Methods for Slope Engineering

### 2020-21 Spring Term

- CIEM 5160 Construction Financial Management
- CIEM 5240 Advanced Concrete Technology
- CIEM 5320 Computer Aided Design Optimization of Tall Buildings
- CIEM 5420 Biological Waste Treatment and Management
- CIEM 5630 Traffic Control Fundamentals and Practice
- CIEM 5760 Engineering Geology and Rock Mechanics
- CIEM 5770 Unsaturated Soil Mechanics and Engineering
- CIEM 5790 Slope Engineering and Management
- CIEM 6000O Structural Dynamics

### 2020-21 Summer Term

- CIEM 5150 Dispute Resolution for Engineers
- CIEM 5310 Structural Analysis and Design of Tall Buildings

**Courses are offered subject to needs and availability.**

For course details, please refer to: