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 6000Q** Structural Dynamics & Earthquake Engineering

### 2020-21 Summer Term
- **CIEM 5170** Building Information Modeling and Smart Construction
- **CIEM 5310** Structural Analysis and Design of Tall Buildings

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

For course details, please refer to:

![Course Catalog](image)

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