

ADVANCED SOIL MECHANICS (CIEE 704 / IMSC 004)

Semester Syllabus

Part 1: Course Information

Instructor Information

Instructor: Dr. Thomas M.H. Lok

E-mail: fstmhl@umac.mo

Course Description

The emphasis of this course is on the practical knowledge of soil behavior required by civil engineers for design and construction of geotechnical projects. Two most important topics of soil mechanics, consolidation and shear strength of soils, will be discussed in detail.

Prerequisite

None

Course Duration

42 contact hours, 3 hours per week (3-credit course)

Credit: 3

Compulsory/elective course: Elective

Part 2: Course Objectives

Major subjects to be covered are:

- Index and Classification Properties of Soils
- Permeability and Seepage
- Consolidation and settlement
- Shear strength of sands and clays
- Selected topics such as compaction, or limit equilibrium methods

Part 3: Major Assessment Methods

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| Assignments: | 30% |
| Mid term: | 30% |
| Final exam: | 40% |