



School of Civil and Environmental Engineering

Term 2, 2020

CVEN9521 SLOPE STABILITY AND STABILISATION

COURSE DETAILS

Units of Credit	6
Contact hours	6 hours per week for four weeks and 3 hours per week for five weeks
Classes and workshops	Monday, 11:00–14:00 (wks 1, 3-5) Wednesday, 18:00–21:00 (wks 1-5, 7-10)

the course.

(An example of the approaches to learning are)

Private Study	<ul style="list-style-type: none">< Review lecture material< Do set problems and assignments< Reflect on class problems and assignments< Download materials from Moodle< Keep up with notices and find out marks via Moodle
Lectures	<ul style="list-style-type: none">< Find out what you must learn< Follow worked examples< Hear announcements on course changes

22/06/2020 and 24/06/2020 (Week 4)	Limit equilibrium methods of stability analyses Introduction to unsaturated soil mechanics	Lecture and workshop and SlopeW software demonstration
29/06/2020 and 01/07/2020 (Week 5)	Analysis of slopes involving unsaturated soils Laboratory testing, selection of parameters	Lecture and workshop
06/07/2020 (Week 6)	No teaching	Flexibility week for all courses (non-teaching)
15/07/2020 (Week 7)	Stabilisation techniques	Lecture and workshop
22/07/2020 (Week 8)	Mechanics of rapid failure and estimation of travel distance	Lecture and workshop
29/07/2020 (Week 9)	Quantitative Risk Assessment (QRA), principles and system framework	Lecture and demonstrations
03/08/2020 (Week 10)	Revision, case studies and example problems	Workshop and demonstrations

ASSESSMENT

- < Assignment 1, due beginning of Week 4 (9am 22nd June) value: 10%
- < Assignment 2, due beginning of Week 7 (9am 13th July) value: 10%
- < Assignment 3, due in Week 10 (5pm 5th August) value: 40%
- < Two hour open-book take-home final exam, held in the formal exam period (commencing 14th August) value: 40%

Details of each assessment component, the marks assigned to it, the c0 G[()8(W)8(ks)28(a)6(ssi28(a)6(ssi28((e)6()28(m)8(

ASSESSMENT OVERVIEW

Item	Length	Weighting	Learning outcomes assessed	Assessment Criteria	Due date	Deadline for absolute fail	Marks returned
1. Assignment 1	~2 days	10%	1.1, 1.5, 2.1. 2.2. 2.3. 2.4. 3.1 3.2, 3.4, 3.5	Detailed on assignment question, located on Moodle	9am 22 nd June	none	26 th June
2. Assignment 2	~2 days	10%	1.1, 1.3, 1.4, 2.1. 2.2. 2.3. 3.2, 3.3, 3.4	Detailed on assignment question, located on Moodle	9am 13 th July	2 weeks after due date unless an extension is granted	~2 weeks after submission
3. Assignment 3	~4 weeks	40%	1.1, 1.3, 1.4, 2.1. 2.2. 2.3. 3.2, 3.3, 3.4	Detailed on assignment question, located on Moodle	5pm 5 th		

