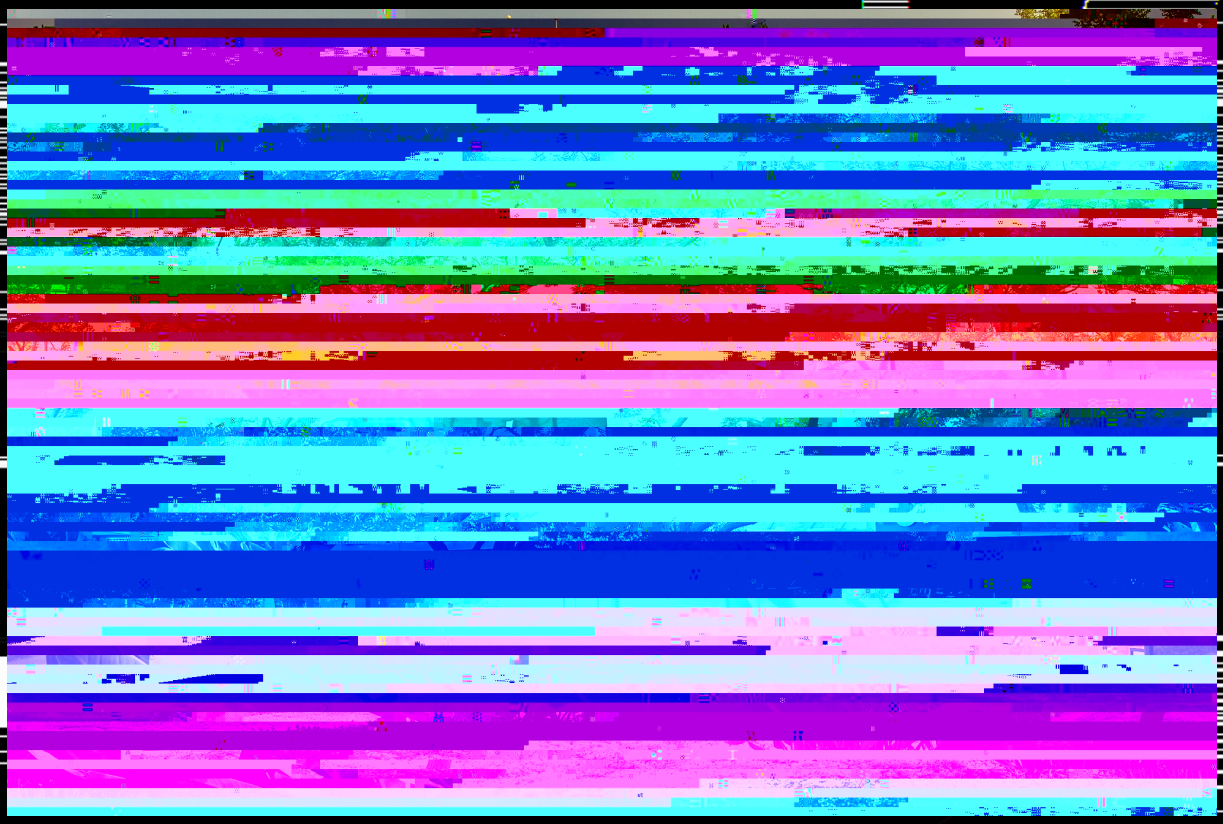
CVEN9521

Slope Instability and Stabilisation

Term 2, 2022



Course Overview

Staff Contact Details

Convenors

Name	Email	Availability	Location	Phone
Rohit Tiwari	r.tiwari@unsw.edu.au	Email to to make appointment	Civil Engineering Building (H20) Level 6, Room CE604	+61 (2) 9348 0182

School Contact Information

Engineering Student Support Services – The Nucleus - enrolment, progression checks, clash requests, course issues or program-related queries

Engineering Industrial Training – Industrial training questions

UNSW Study Abroad – study abroad student enquiries (for inbound students)

UNSW Exchange – student exchange enquiries (for inbound students)

UNSW Future Students – potential student enquiries e.g. admissions, fees, programs, credit transfer

Phone

(+61 2) 9385 8500 – Nucleus Student Hub

(+61 2) 9385 7661 – Engineering Industrial Training

(+61 2) 9385 3179 – UNSW Study Abroad and UNSW Exchange (for inbound students)

Course Details

Units of Credit 6

Summary of the Course

Landslide classification and recognition; relation to topography and geology. Site investigations for landslides – the specific issues. Analysis of stability; selection of shear strengths, shear strength of fissured clays; review of limit equilibrium analysis, back-analysis; slope stabilisation, pre-failure deformations of soil slopes. Slope stabilisation techniques including geometry change, control of piezometric pressures, anchoring, retaining walls, reinforced soil. Pre- and post-failure deformations of

	and skills • Demonstrate higher understanding and problem solving
Computer Laboratory Work	

Assessment

Assessment task	Weight	Due Date	Course[illegible]ning Outcome[illegible]essed
1. Online Moodle Quiz	10%	23/06/2022 09:00 AM	[illegible]
2. Assignment 2	10%	11/07/2022 09:00 AM	[illegible]
3. Assignment 3	40%	02/08/2022 05:00 PM	1,[illegible]
4. Final Exam	40%	Not Applicable	1, 2, 3 1[illegible]

Assessment 1: Online Moodle Qu[illegible]

Start date: 17/06/2022 12:00 AM
Assessment length: 1 Day
Due date: 23/06/2022 09:00 AM
Deadline for absolute fail: none
Marks returned: 24th June 2022

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Additional details

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Assessment 4: Final Exam

Assessment length: 2 Hours
Submission notes: Inspera Exam

Two hour open-book online Inspera exam.

Hurdle requirement

1. The student must achieve a mark of at least 50% of the total assessment (Assignment 1, 2, 3 & final exam).
2. The final grade for this course will normally be based on the sum of the scores from each of the assessment tasks. Therefore, to ensure that you have met the learning outcomes you must achieve a mark of at least 40% in the final Inspera exam in order for the assignment marks will be included.

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

Course Schedule

Week 3	Week 4
Wednesday 09:00-12:30 Wednesday 13:30-17:30 Thursday 09:00 – 12:30 Thursday 13:30-17:30 Friday 09:00 – 12:30 Friday 13:30-17:30	Monday 09:00-12:30 Monday 13:30-17:30 Tuesday 09:00 – 12:30

Resources

Prescribed Resources

It is not necessary to buy a text book as the notes provided are extensive and sufficient. These will include references to several books and numerous articles in the technical literature. Completion of the assignments may require students to refer to these works.

Laboratory Workshop Information

A two-hour workshop for demonstration of SlopeW software will be carried out during the live lectures. Students can also access the SlopeW software remotely.

Submission of Assessment Tasks

Please refer to the Moodle page of the course for further guidance on assessment submission.

UNSW has a standard late submission penalty of:

- 5% per day, for all assessments where a penalty applies, capped at five days (120 hours), after which a student cannot submit an assessment, and no permitted variation.

Academic Honesty and Plagiarism

Beware! An assignment that includes plagiarised material will receive a 0% Fail, and students who plagiarise may fail the course. Students who plagiarise are also liable to disciplinary action, including exclusion from enrolment.

Plagiarism is the use of another person's work or ideas as if they were your own. When it is necessary or desirable to use other people's material you should adequately acknowledge whose words or ideas they are and where you found them (giving the complete reference details, including page number(s)). The Learning Centre provides further information on what constitutes Plagiarism at:

https://student.unsw.edu.au/plagiarism

Academic Information

Final Examinations:

Final exams in T2 2022 will be held online between 12th - 25th August 2022 inclusive, and supplementary exams between 5th - 9th September 2022 inclusive. You are required to be available on these dates. Please do not to make any personal or travel arrangements during this period.

ACADEMIC ADVICE

- Key Staff to Contact for Academic Advice (log in with your zID and password):