School of
Engineering and Computer Science
Te Kura Mātai Pūkaha, Pūrorohiko

Prescription

This course will consist of a sequence of group projects, interleaved with teaching sessions, industrial seminars, industrial case studies, and tutorials providing background to the projects, review of the student work, and additional material to complement the project work. The group work and the teaching will be done in the same physical space, allowing for flexible timing of the more formal components of the course. The course will include weekly seminars from industry professionals on a range of topics.

Course learning objectives

Students who pass this course will be able to:

1. Implement a range of software engineering methodologies, including traditional life cycles, and Agile methods.
2. Develop software of a moderate size cooperatively using recognised software engineering processes.
3. Use a range of software engineering tools, including version control, error tracking, test coverage, continuous integration, build tools, and frameworks.
4. Apply knowledge of networks, web systems, databases, and other computer science concepts to the solution of software development problems.
5. Evaluate and discuss the impact on a software engineering project of issues such as privacy, Intellectual property, security, reliability, and sustainability.
6. Evaluate and discuss the appropriateness of different software engineering methodologies in a software project and the relationship between technical and project management choices and the business goals and constraints of the organisation.

Withdrawal from Course

Withdrawal dates and process:
https://www.wgtn.ac.nz/students/study/course-additions-withdrawals

Lecturers

Jennifer Ferreira (Coordinator)

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Teaching Format

This course will consist of a sequence of group projects, interleaved with teaching sessions, industrial seminars, industrial case studies, and tutorials providing background to the projects, review of the student work, and additional material to complement the project work. Both the group work and the teaching will be done in the same physical space, allowing for flexible timing of the more formal components of thecourse. The course will include weekly seminars from industry professionals on a range of topics.

Student feedback

Student feedback on University courses may be found at: www.cad.vuw.ac.nz/feedback/feedback_display.php

You can view Student course feedback collected for Victoria University courses from the last completed trimester for which feedback was collected

Dates (trimester, teaching & break dates)

- Teaching: 09 November 2020 - 14 February 2021
- Break: 21 December 2020 - 04 January 2021

Class Times and Room Numbers

Set Texts and Recommended Readings

Required

There are no required texts for this offering.

Mandatory Course Requirements

There are no mandatory course requirements for this course.

If you believe that exceptional circumstances may prevent you from meeting the mandatory course requirements, contact the Course Coordinator for advice as soon as possible.

Assessment

This course is internally assessed.

Assessment Item	Due Date or Test Date	CLO(s)	Percentage
6 individual advanced programming assignments (approx. 1 week)	TBA	CLO: 1,3,4	60%
1 technical project report (group) with individual reflective reports (15% group, 5% individual) (approx. 3 weeks)	TBA	CLO: 1,2,3,4,5,6	20%
1 group presentation	TBA	CLO: 1,2,3,4,5,6	5%
1 case study (individual) (based on industry presentations throughout the course, approx. 3-4 pages)	TBA	CLO: 5,6	5%
1 individual report (approx. 1 week)	TBA	CLO: 4,5,6	10%

Penalties

Assessments will generally be in-class and due on the day, and will not be accepted afterwards without special arrangement. For any items to be submitted outside of class time late penalties will apply: any assignment submitted up to 24 hours after the deadline will be penalised by 20%, and any assignment submitted between 24 and 48 hours after the deadline will be penalised by 40%. Any assignment submitted 48 hours or more after the deadline will not be marked and will get 0 marks.

Submission & Return

Work will either be marked by demonstration in class, or submitted via the ECS marking system. Work submitted via the online system will be returned electronically once marked.

Workload

The student workload for this course is 400 hours.

Teaching Plan

See https://ecs.wgtn.ac.nz/Courses/SWEN504_2020T3/TeachingSchedule

Communication of Additional Information

All online material for this course can be accessed at https://ecs.wgtn.ac.nz/Courses/SWEN504_2020T3/

Links to General Course Information

- Academic Integrity and Plagiarism: https://www.wgtn.ac.nz/students/study/exams/integrity-plagiarism
- Academic Progress: https://www.wgtn.ac.nz/students/study/progress/academic-progess (including restrictions and non-engagement)
- Dates and deadlines: https://www.wgtn.ac.nz/students/study/dates

- Grades: https://www.wgtn.ac.nz/students/study/progress/grades
- Special passes: Refer to the Assessment Handbook, at https://www.wgtn.ac.nz/documents/policy/staff-policy/assessment-handbook.pdf
- Statutes and policies, e.g. Student Conduct Statute: https://www.wgtn.ac.nz/about/governance/strategy
- Student support: https://www.wgtn.ac.nz/students/support
- Students with disabilities: https://www.wgtn.ac.nz/st_services/disability/
- Student Charter: https://www.wgtn.ac.nz/learning-teaching/learning-partnerships/student-charter
- Terms and Conditions: https://www.wgtn.ac.nz/study/apply-enrol/terms-conditions/student-contract
- Turnitin: http://www.cad.vuw.ac.nz/wiki/index.php/Turnitin
- University structure: https://www.wgtn.ac.nz/about/governance/structure
- VUWSA: http://www.vuwsa.org.nz

Offering CRN: 32075

Points: 60
Prerequisites: SWEN 502
Duration: 09 November 2020 - 14 February 2021
Starts: Trimester 3
Campus: ICT Graduate School (NEC)