

COMP.5210
Web Application Implementation

Course Outline: Semester 2, 2019

Nau mai, haere mai! Welcome!

This outline will give you the key course information you require as an enrolled student. It advises the main purpose of the course, what the course learning outcomes are, assessment details, the delivery and assessment schedule for the course, and any specific requirements or regulations relating to this course. Please consult your lecturer for any further information or clarification you may require.

Lecturer/Office Information: Kaiako/Pūrongo Tari

Faculty/Department	Location	Phone	Email
Engineering, Creative Industries, Technology and Infrastructure/ Computing and Communications	Mokoia, Rotorua	346 8889	Mereiro.Hepi@toiohoma.ac.nz

Staff Name	Designation	Phone	Email
Bruce Tuhakaraina	Lecturer	346 8780	Bruce.Tuhakaraina@toiohoma.ac.nz
Kaveeta Dutt	Programme Manager	346 8670	Kaveeta.Dutt@toiohoma.ac.nz

Please remember that your lecturers teach several classes, and also require preparation time in their offices for planning classes, marking and other work. If you wish to talk to a lecturer outside of class time, please politely contact your lecturer and ask for an appointment. The most effective way of doing this is to email your lecturers or leave a message on their voicemail.

Learner Support: Taunakitanga o te Ākonga

Toi Ohomai's team of Learning Advisors provides free support to all Toi Ohomai students to be successful in their studies and achieve their goals. They work alongside lecturers to provide the best possible support for our students' learning. Students are assisted by Learning Advisors with: planning their time; searching for information and resources; writing assignments; studying for exams. We encourage all of our students to reach their full potential by making effective use of learner support. Contact your lecturer for a referral to a learning advisor.

Moodle: Online Learning/Ī-Paenga: Ako ā-Ipurangi

This course is not available as a full online 'distance' course. However, it will be supported by various resources being made accessible online. Students will need to be registered to access the available resources. It is not imperative or required that students have a personal computer to access Moodle, however, it is recommended that students regularly visit this course's Moodle page, which can be accessed via the Toi Ohomai website: www.toiohoma.ac.nz.

Please contact your lecturer if you cannot reach the Moodle page, as there may be a delay with student enrolments. If you are not fully enrolled in the course, you may not have access.

Please check that you can access your online resources with your lecturer so that you can keep up to date with your course details!

Course Details

Course Level	5	Course Credits	15	EFTS	.125
Pre-requisites	Nil		Co-requisites	Nil	

Teacher-directed Learning Hours	78	Total Self-directed Learning Hours	72	Total Learning Hours	150
Directed Practical/Work Experience Hours	0				
Total Directed Learning Hours	78				

COURSE AIM

The aim of this course is to provide students with the skills to select and use appropriate development methodologies, develop user interfaces using software development standards, create scripted components to given specification, and install and configure frameworks and applications.

LEARNING OUTCOMES AND CONTENT

LEARNING OUTCOMES (refer to graduate profile mapping)	CONTENT
<p>On successful completion of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Select an appropriate software development paradigm. 2. Use software development standards to implement a user interface. 3. Install and configure a web-based solution using web scripting. 4. Initialise system data. 	<ul style="list-style-type: none"> • Software development paradigms (such as: agile and structured). • Software development standards (such as: standardised and/or in-house coding standards). • User experience implementation including user interface (UI), HCI principles and universal accessibility. • Client side scripting (such as: JavaScript, cascading style sheets (CSS) and HTML). • Selection of appropriate framework features and addressing security concerns by using framework plug-ins. • Server side scripting (such as: PHP and SQL) which does not undermine security. • Installation and configuration of solutions. • Initial data input and exports from existing systems.

ASSESSMENT

Assessment No.	Assessment Type	Learning Outcomes Assessed	Percentage Weighting
1.	User experience development assignment	1, 2	30%
2.	In Class Test	1, 2, 3	30%
3.	Project	1, 2, 3, 4	40%

REQUIREMENTS FOR SUCCESSFUL COMPLETION

This course is assessed using achievement-based assessment. Students must attempt and/or submit all assessment tasks at the time, due date and at the place stipulated in the Course Outline.

Course Calendar: Ngā Wā Kōhi

Please consult the **Toi Ohomai online timetable** for class venue, date and time details. Use the course code as your search basis.

The timetable is subject to change and all **updates are made to the ONLINE timetable only**

Week	Date (week commencing)	Topic Covered	Required Readings	Assessment (if due this week)
1	22 July 2019	Introduction ----- Software development paradigms and coding standards		
2	29 July 2019	User experience: HCI, accessibility ----- Introduce GitHub Pages and Markdown		Assessments issued
3	5 August 2019	HTML (Div, images, text, border) ----- HTML (Tables)		
4	12 August 2019	CSS Part 1 (Position, margin, padding)	W3Schools HTML Practise	
5	19 August 2019	CSS Part 2 (FlexBox)	W3Schools CSS Practise	Assessment 1 Due
6	26 August 2019	CSS Part 3 (Grids)	W3Schools CSS Practise	
7	2 September 2019	Exercises – HTML and CSS challenges		
8	9 September 2019	Client side scripting - JavaScript		
9	16 September 2019	Basic Programming (variables, if statements, loops, arrays etc.) ----- DOM Elements and Form Validation		
10	23 September 2019	Exercises – JS Exercises challenges		
Semester Break				
11	14 October 2019	Revision Session & In Class Test		TEST
12	21 October 2019	Pulling in API and Display the Data		
13	28 October 2019	Test Project 2 against Project 1		
14	4 November 2019	Work on and Submit Project		Assessment 2 due Friday @ 4pm
15	11 November 2019	Study Week		
16	18 November 2019	Exam Week (No Final Exam for this paper)		

IMPORTANT NOTES:

- While all efforts are made to ensure that the course calendar is correct, sometimes change is unavoidable. All reasonable effort will be made to advise enrolled students of any necessary changes. **Please ensure you have valid email addresses and telephone numbers** on your student file, and update these should they change. The best ways to stay informed are to come to class and visit Moodle regularly. Please use the online timetable only, as it is the most accurate and updated timetable.
- If you have timetable clashes, consult your lecturer. **Courses may be subject to timetable constraints.** While Toi Ohomai does its best to allow your study plan to be achievable, all study plans are subject to timetabling constraints.

Regulations: Ngā Waeture

This course will be delivered and managed in accordance with the criteria specified in the Toi Ohomai Regulatory Framework, including the Academic Regulations and relevant Toi Ohomai policies and procedures. A copy of Toi Ohomai's Academic Regulations is available in your Student Diary and on the Toi Ohomai website via the following weblink: <http://www.Toi Ohomai.ac.nz/about-us/Toi Ohomai-publications/corporate-documents>.

Regulations specific to this course are outlined below.

Attendance Requirements: Whakaritenga Taetae Mai

- Any student who does not meet the attendance requirements of their enrolment contract (for example international students or students on allowances) will be considered to be in breach of their enrolment contract and may be suspended or withdrawn from their course/programme. In such cases, any third party with an interest in the contract, for example, Immigration NZ, StudyLink or WINZ, will be notified.
- Attendance in all courses is compulsory.
- In cases of ill health or other special circumstances, students should notify the course lecturer and leave may be granted.
- Where attendance falls below 80% in any course, the student may fail the course.
- In exceptional circumstances, at the discretion of the Programme Area Lead, an individual study plan may be put in place to ensure that the student has not been disadvantaged due to absenteeism.
- Students will be required to present a Medical Certificate or a form of evidence to validate their absence.

Assessment and Completion: Aromatawai me te Otinga Atu

Students must have attempted and submitted summative assessment tasks at the time, due date and place stipulated by the teaching staff responsible for the respective learning components of the programme.

Students who anticipate difficulty in submitting assessments by the due date, may request an extension in accordance with the following conditions:

- Requests for individual student extensions must be made to their lecturer at least 24 hours prior to the due date.
- Students may be required to provide acceptable documentary evidence to support their application for extension.
- Lecturers will gain approval from the relevant Programme Area Lead/Head of Department for any extension.
- Assessments that are submitted late without an extension being requested will not be marked unless approval has been sought from Programme Area Lead/Head of Department.

Students will be eligible for one resubmission opportunity per course. The maximum mark available for any resubmission shall be the minimum pass mark of 50%. Students must apply in writing to their course lecturer for a resubmission opportunity to be granted.

Students shall be entitled to the return of all marked written work (or a copy thereof) submitted for assessment within fifteen (15) working days. Students will also be given access to a copy of the marking schedule/rubric used to mark the assessment.