



1. General Course Information

1.1 Course Details

Course Code:	1621ICT
Course Name:	Web Technologies
Trimester:	Trimester 3, 2021
Program:	Diploma of Information Technology
Credit Points:	10
Course Coordinator:	Dr Rob Baltrusch
Document modified:	18th September 2020

Course Description

This course builds an understanding of interactive technology applications, and production considerations. The course places an emphasis on the World Wide Web (including HTML, CSS, JavaScript, and PHP) and provides the tools, both practical and conceptual, with which to produce and evaluate Web-based multimedia works.

IT applications are increasingly web-based. Web technology has grown to include a variety of business, academic, organisational, and social applications. Diverse multi-cultural and multi-lingual user communities now depend on Web technology. This course covers the design, implementation, and testing of web-based applications including related client and server-side software, interfaces, and digital media.

Assumed Knowledge

There are no prerequisites for this course

1.2 Teaching Team

Your teacher can be contacted via the email system on the portal.

Name	Email
Dr Rob Baltrusch	rob.baltrusch@staff.griffithcollege.edu.au

1.3 Staff Consultation

Your teacher is available each week for consultation outside of normal class times. Times that your teacher will be available for consultation will be available on the Moodle Course Site.

1.4 Timetable

Your timetable is available on the Griffith College Portal at Class Timetable in Student and Services.

1.5 Technical Specifications

All students must have access to a computer or suitable mobile device.

2. Aims, Outcomes & Generic Skills

2.1 Course Aims

The World Wide Web has become a major platform for the delivery of interactive multimedia products. For successful participation of graduates in the Information Technology and Multimedia industries, the development of practical and conceptual knowledge related to interactive multimedia on the World Wide Web is essential. The knowledge and skills developed in this course relate specifically to the World Wide Web and aims to equip students with both practical knowledge of tools (HTML 5, CSS 3, Javascript, PHP, and SQL) and conceptual knowledge required to design, produce and evaluate Web-based works.



2.2 Learning Outcomes

After successfully completing this course you should be able to:

- 1. Demonstrate an understanding of web technologies by applying this knowledge to create web based content**
- 2. Apply information design practices to create a multipage web site**
- 3. Apply search engine optimization techniques to a web site**









2.3 Generic skills and capabilities

For further details on the Generic Skills please refer to the [Graduate Generic Skills and Capabilities policy](#).

Griffith College aims to develop graduates who have an open and critical approach to learning and a capacity for lifelong learning. Through engagement in their studies, students are provided with opportunities to begin the development of these and other generic skills.

Studies in this course will give you opportunities to begin to develop the following skills:

Generic Skills and Capabilities		Taught	Practised	Assessed
Acquisition of discipline knowledge and skills with critical judgement		✓	✓	✓
Communication and collaboration			✓	✓
Self-directed and active learning			✓	
Creative and future thinking			✓	
Social responsibility and ethical awareness			✓	
Cultural competence and awareness in a culturally diverse environment			✓	



3. Learning Resources

3.1 Required Learning Resources

Vodnik, Sasha (2016) HTML 5 and CSS3 - Illustrated Complete, Second Edition. Course Technology.

3.2 Recommended Learning Resources

- w3schools.com
- codecademy.com

3.3 College Support Services and Learning Resources

The College provides many facilities and support services to assist students in their studies. Links to information about College support resources that are available to students are included below for easy reference.

[Digital Library](#) – Databases to which Griffith College students have access to through the Griffith Library Databases.

MyStudy – there is a dedicated website for this course via MyStudy on the Griffith College Portal.

Griffith College is committed to ensuring academic integrity is understood and maintained by all staff and students. All students learn about academic integrity through engagement with the weighted Epigeum modules within the suite of Academic and Professional Studies courses.

Services and Support provides a range of services to support students throughout their studies including academic advice and assignment help from Student Learning Advisors, and personal and welfare support from Student Counsellors.

[Jobs and Employment](#) in the Student Hub can assist students with career direction, resume and interview preparation, job search tips, and more.

[IT Support](#) provides details of accessing support, information on s numbers and internet access and computer lab rules.

3.4 Other Information about your Learning

Attendance

You are expected to actively engage in all learning experiences and learning activities which underpin the learning content in this course. You are expected to engage with the learning content and learning activities outside of timetabled class times. This requires you to be an active agent of your learning. You are expected to bring all necessary learning resources to class such as the required textbook and /or Workbook. In addition, you are encouraged to BYOD (bring your own device) to class such as a laptop or tablet. This is not a requirement as computer lab facilities are available on campus, however, the use of such devices in the classroom is encouraged with appropriate and considerate use principles being a priority.

Preparation and Participation in Learning

In order to enhance your learning, you need to prepare before participating in the learning experiences. Absorb the learning content and complete the learning activities that are provided online before you attend the scheduled learning experiences. Make sure you complete the learning activities set each week, they are designed to support your learning. Active participation in your learning will enhance your success. Ask questions when something is unclear or when you want to bring some issue to your lecturer or tutor's attention; respond to questions to test your knowledge and engage in discussion to help yourself and others learn.

Consultation Sessions

Teachers offer extra time each week to assist students outside the classroom. This is known as 'consultation time.' You may seek assistance from your teacher on email or in person according to how the teacher has explained this to the class. Attendance during consultation time is optional but you are encouraged to use this extra help to improve your learning outcomes.

Course Learning Materials

Learning materials are made available to you in MyStudy on the Griffith College Portal. The learning materials are arranged in Modules. In each Module you will find Learning Content, Learning Experiences and Learning Activities. **Learning Content** will be engaged with prior to the scheduled **Learning Experience (your weekly class)**. This will ensure you are prepared for the scheduled Learning Experience by being aware of the content to be covered and therefore will be able to actively participate in the session. **Learning Activities** are accessed after the scheduled session for purposes of review, consolidation of learning, and preparation for the Evidence of Learning tasks (assessment) in the course.

In addition, **Anytime Anywhere** learning material is provided in the course. This learning material provides support, interactive tools and directions for students who occasionally cannot attend the weekly scheduled Learning Experience (either in person or on Zoom) perhaps due to illness or other commitments. The Anytime

Anywhere learning material should also be used in conjunction with Learning Content and Learning Activities resources.

Self-Directed Learning

You will be expected to learn independently. This means you must organise and engage with the course learning content even when you are not specifically asked to do so by your teacher. The weekly guide will be helpful to organise your learning. This involves revising the weekly course learning material and completing the learning activities. It also means you will need to find additional information to evidence your learning (assessment) beyond that given to you, and to construct your own response to a question or topic. All of this requires careful planning of your time. Expect to spend, on average, at least 10 hours per week including class time for each of your courses.

Program Progression

You are reminded that satisfactory Program Progression requires that attendance in classes is maintained at equal to or greater than 80%, and that GPA is maintained at equal to or greater than 3.5 [please see Griffith College Policy Library - [Program Progression Policy](#) - for more information].






Teacher and Course Evaluation

Your feedback is respected and valued by your teacher. You are encouraged to provide your thoughts on the course and teaching, both positive and critical, directly to your teacher or by completing course and lecturer evaluations via Griffith College's evaluation tool whenever these are available.



4. Learning content, learning activities and learning experiences

4.1 Modules for learning and weekly learning content, learning activities and learning experience

	Learning Content 	Learning experiences 	Learning activities 	Evidence of learning 	Learning outcome 
	Module 1 Web technologies and creating web based content				
1	Introduction Vodnik, S. (Unit A, B)	<ul style="list-style-type: none"> Online activities Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> Weekly online activities 	1
2	Links and images Vodnik, S. (Unit C)	<ul style="list-style-type: none"> Online activities Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> Weekly online activities 	1





3	CSS Vodnik, S. (Unit D)	<ul style="list-style-type: none"> • Online activities • Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> • Weekly online activities 	1
Module 2 Designing web sites					
4	Lists and tables Vodnik, S. (Unit E)	<ul style="list-style-type: none"> • Online activities • Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> • Weekly online activities 	2
5	Page layout with CSS Vodnik, S. (Unit G)	<ul style="list-style-type: none"> • Online activities • Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> • Weekly online activities 	2
6	Advanced CSS Vodnik, S. (Unit F)	<ul style="list-style-type: none"> • Online activities • Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> • Weekly online activities 	2
7	Introduction to PHP Vodnik, S. (Unit H)	<ul style="list-style-type: none"> • Online activities • Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> • Weekly online activities 	2
8	Arrays and loops Vodnik, S. (Unit K)	<ul style="list-style-type: none"> • Online activities • Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> • Weekly online activities 	2
9	Databases and forms Vodnik, S. (Unit L)	<ul style="list-style-type: none"> • Online activities • Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> • Weekly online activities 	2
10	Client-side scripting Vodnik, S. (Unit N)	<ul style="list-style-type: none"> • Online activities • Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> • Weekly online activities 	2
Module 3 Search engine optimisation					
11	Search engine optimisation Vodnik, S. (Unit N)	<ul style="list-style-type: none"> • Online activities • Discussion forum 	Weekly lesson plan activities	<ul style="list-style-type: none"> • Weekly online activities 	3

12	Course review	Topic overview	Practice exam questions	Practice exam questions completed	1, 2, 3
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5. Evidence of learning (Assessment plan)

5.1 Evidence of learning summary

	 Evidence of learning	 Weighting	 Learning outcome	 Due Date
1	Workshops (comprising of 4 parts): Workshop 1 Workshop 2 Workshop 3 Workshop 4	20% in total (5% for each workshop)	1	Workshop 1: week 3 Workshop 2: week 5 Workshop 3: week 7 Workshop 4: week 10
2	Workshop 2	5%	1	5
3	Workshop 3	5%	2	7
4	Workshop 4	5%	2	10
5	Quiz 1	5%	1	6
6	Quiz 2	5%	2	9
7	Project Part 1: website planning document Part 2: web site implementation	Part 1: 10% Part 2: 20%	1, 2	Part 1: week 6 Part 2: week 11
9	Final exam	40%	1, 2, 3	Exam week

5.2 Evidence of learning task detail

Quizzes:

Title: Quizzes

Type: Test or quiz

Learning Outcomes Assessed: 1, 2

Due Date: Held in weeks 6 and 9

Weight: 5%

Marked out of: 5

Task Description:

This will be run in the lecture. The quizzes will test your understanding of key topics delivered in the lectures. There are 2 (two) quizzes in total each worth 5%.

Criteria & Marking:

This exam will test your knowledge and skill level in HTML, CSS, Javascript, and PHP.

Submission: On Paper

This assessment item:

- is a supervised activity
- is an individual activity
- does not include a self assessment activity
- does not have a re-attempt provision

Workshops:

Title: Weekly workshops

Type: Assignment - Laboratory/Laboratory Report

Learning Outcomes Assessed: 1, 2

Due Date: Due in workshops in weeks 3, 5, 7 and 10. Each worth 5%.

Weight: 20%

Marked out of: 20

Task Description:

Workshop cases will provide students with small, staged submission of work to enable both students' and instructors to track progress in the semester. The workshop cases will focus on the technical skills developed in workshop sessions and will address some of the design issues discussed in lectures. Workshop cases are individual assessment items due in weeks 3, 5, 7, and 10 and are worth 5% each.

Criteria & Marking:

The workshop demonstrator will mark the workshop exercise during the relevant workshop.

This assessment item:

- is an online activity
- is an individual activity
- does not include a self assessment activity
- does not have a re-attempt provision

Website Design and Development Document:

Title: Website design and development document

Type: Assignment - Planning Document

Learning Outcomes Assessed: 1, 2

Due Date: End of Week 6

Weight: 10%

Marked out of: 10

Task Description:

In this assignment, you will need to produce the design for a website for a fictitious client. Your client could be a small local business, a government agency, a volunteer organisation or any other entity that needs an online presence. Use of an existing real business or organisation is not appropriate for this assignment. The aim of the website is to facilitate your client's online needs which you should describe in your design document.

Criteria & Marking:

Specific assessment details (specifications in full and marking criteria) will be available on the portal.

Submission: Online electronic submission using the portal.

This assessment item:

- is an individual activity
- does not include a self assessment activity
- does not have a resubmission provision

Website Design and Development Implementation (Site):

Title: Web site project implementation

Type: Assignment - Problem Solving Assignment

Learning Outcomes Assessed: 1, 2

Due Date: End of week 11

Weight: 20%

Marked out of: 20

Task Description:

The Website project implementation is aimed at integrating the concepts related to design covered in lectures and the technical skills developed in workshops. The project implementation provides an opportunity for students to engage in development of a web-based project.

Criteria & Marking:

Specific assessment details (specifications in full and marking criteria) will be available on the portal.

Submission: Electronic submission required, details provided via course website.

This assessment item:

- is an individual activity
- does not include a self assessment activity
- does not have a resubmission provision

Final Examination:

Title: Exam

Type: Exam - constructed response

Learning Outcomes Assessed: 1, 2, 3

Due Date: Examination Period

Weight: 40%

Marked out of: 40

Perusal: 10 minutes

Duration: 180 minutes

Format: Closed Book

Task Description:

The examination is an individual, closed book exam. It will focus on both conceptual knowledge of design and on knowledge of syntax of HTML, CSS, Javascript, PHP, and SQL.

Specific assessment details (specifications in full and marking criteria) will be discussed during the last few lectures.

Criteria & Marking:

Exam hints will be given during lectures.

This assessment item:

- is a centrally organised activity
- is an individual activity
- does not include a self assessment activity

Specific assessment details (specifications in full and marking criteria) will be provided in class at the start of the semester.

5.3 Late Submission

An evidence of learning (assessment) item submitted after the due date, without an approved extension from the Course Coordinator, will be penalised. The standard penalty is the reduction of the mark allocated to the assessment item by 5% of the maximum mark applicable for the assessment item, for each working day or part working day that the item is late. Evidence of learning items submitted more than five working days after the due date are awarded zero marks.

Please refer to the Griffith College website - Policy Library > [Assessment Policy](#) for guidelines and penalties for late submission.

5.4 Other Information about Evidence of Learning

Retention of Originals

You must be able to produce a copy of all work submitted if so requested. Copies should be retained until after the release of final results for the course.

Requests for extension

To apply for an extension of time for an evidence of learning item, you must submit an [Application for Extension of Assignment](#) form to your teacher at least 24 hours before the date the assignment is due. Grounds for extensions are usually: serious illness, accident, disability, bereavement or other compassionate circumstances and must be able to be substantiated with relevant documentation [e.g. [Griffith College Student Medical Certificate](#)]. Please refer to the Griffith College website - [Policy Library](#) - for guidelines regarding extensions and deferred assessment.

Return of Assessment Items

1. Marks awarded for in-trimester assessment items, except those being moderated externally with Griffith University, will be available on the Student Portal within fourteen [14] days of the due date. This does not apply to the final assessment item in this course (marks for this item will be provided with the final course result).
2. Students will be advised of their final grade through the Student Portal. Students can review their exam papers after student grades have been published (see relevant Griffith College Fact Sheet for allocated times at Support> Factsheets). Review of exam papers will not be permitted after the final date to enrol.

3. Marks for **all** assessment items including the final exam (if applicable) will be recorded in the Moodle Course Site and made available to students through the Moodle Course Site.

The sum of your marks overall assessment items in this course does not necessarily imply your final grade for the course. Standard grade cut off scores can be varied for particular courses, so you need to wait for the official release of grades to be sure of your grade for this course.

6. Policies & Guidelines

Griffith College assessment-related policies can be found in the [Griffith College Policy Library](#) which include the following policies:

[Assessment Policy](#), [Special Consideration](#), [Deferred Assessment](#), [Alternate Exam Sitings](#), [Medical Certificates](#), [Academic Integrity](#), [Finalisation of Results](#), [Review of Marks](#), [Moderation of Assessment](#), [Turn-it-in Software Use](#). These policies can be accessed within the [Policy Library](#)

Academic Integrity Griffith College is committed to maintaining high academic standards to protect the value of its qualifications. Academic integrity means acting with the values of honesty, trust, fairness, respect and responsibility in learning, teaching and research. It is important for students, teachers, researchers and all staff to act in an honest way, be responsible for their actions, and show fairness in every part of their work. Academic integrity is important for an individual's and the College's reputation.

All staff and students of the College are responsible for academic integrity. As a student, you are expected to conduct your studies honestly, ethically and in accordance with accepted standards of academic conduct. Any form of academic conduct that is contrary to these standards is considered a breach of academic integrity and is unacceptable.

Some students deliberately breach academic integrity standards with intent to deceive. This conscious, pre-meditated form of cheating is considered to be one of the most serious forms of fraudulent academic behaviour, for which the College has zero tolerance and for which penalties, including exclusion from the College, will be applied.

However, Griffith College also recognises many students breach academic integrity standards without intent to deceive. In these cases, students may be required to undertake additional educational activities to remediate their behaviour and may also be provided appropriate advice by academic staff.

As you undertake your studies at Griffith College, your lecturers, tutors and academic advisors will provide you with guidance to understand and maintain academic integrity; however, it is also your responsibility to seek out guidance if and when you are unsure about appropriate academic conduct.

In the case of an allegation of a breach of academic integrity being made against a student he or she may request the guidance and support of a Griffith College Student Learning Advisor or Student Counsellor.

Please ensure that you are familiar with the Griffith College Academic Integrity Policy; this policy provides an overview of some of the behaviours that are considered breaches of academic integrity, as well as the penalties and processes involved when a breach is identified.

For further information please refer to the Griffith College website - Policy Library > [Academic Integrity Policy](#)

Reasonable Adjustments for Assessment – The Disability Services policy

The [Disability Services policy](#) (accessed within the [Policy Library](#)) outlines the principles and processes that guide the College in making reasonable adjustments to assessment for students with disabilities while maintaining academic robustness of its programs.

Risk Assessment Statement

There are no out of the ordinary risks associated with this course.

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