COIT20250 *Emerging Technologies in E-Business*
Term 1 - 2020

Profile information current as at 14/12/2025 03:36 pm

General Information

Overview

The business world has been witnessing the digital revolution since the beginning of the 1990s. The latest developments in digital technologies are going to result in another wave of transformations which will change how a business is operated and managed. Business organisations that fail to undergo digital transformation will not be able to keep pace with changing customer expectations and remain competitive. The objective of this unit is to provide you with an overview of emerging digital technologies such as IoT, Blockchain, and Artificial Intelligence that would impact business organisations. The unit will help you obtain a better understanding of these emerging digital technologies with underlying designs, working principles, functions, and capabilities. You will also have an opportunity to critically analyse the emerging technologies, their utilities, impacts, advantages and disadvantages, and current and future applications in e-business.

Details

Career Level: *Postgraduate*
Unit Level: *Level 9*
Credit Points: *6*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.125*

Pre-requisites or Co-requisites

Prerequisite: COIT20248 Information Systems Analysis and Design
Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the Assessment Policy and Procedure (Higher Education Coursework).

Offerings For Term 1 - 2020

- Brisbane
- Melbourne
- Online
- Rockhampton
- Sydney

Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website

This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Postgraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

Regional Campuses
Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

Metropolitan Campuses
Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Group Discussion**
Weighting: 40%
2. **Presentation**
Weighting: 20%
3. **Written Assessment**
Weighting: 40%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the University's Grades and Results Policy for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the CQUniversity Policy site.
You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the CQUniversity Policy site.

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Unit Evaluation Feedback

Feedback
Mahara is not suitable for the portfolio assessment in its current format.

Recommendation
Students will be allowed to write portfolios in a Microsoft Word document rather than using Mahara.

Feedback from Unit Evaluation Feedback

Feedback
For each lecture, the content of the lecture slides is too much.

Recommendation
The number of slides in each lecture will be cut down to less than 40.

Feedback from Unit Evaluation Feedback and self-reflection

Feedback
Decline in the 'Have your say' student evaluation response rate.

Recommendation
Actions will be taken to improve student evaluation response rate to over 50%. The students will be informed about the significance of the 'Have your say' student evaluation and reminded on a regular basis to complete the evaluation survey.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Illustrate recent developments in disruptive digital technologies that will transform future businesses
2. Evaluate underlying designs, working principles, functions, and capabilities of the emerging digital technologies
3. Apply technical research skills to critically evaluate future impact of emerging digital technologies on e-business
4. Use emerging digital technologies to solve current and forthcoming e-business problems
5. Work independently and contribute as a member of a team employing appropriate interpersonal, professional and technical communication skills.

The Australian Computer Society (ACS) recognises the Skills Framework for the Information Age (SFIA). SFIA is adopted by organisations, governments and individuals in many countries and provides a widely used and consistent definition of ICT skills. SFIA is increasingly being used when developing job descriptions and role profiles. ACS members can use the MYSFIA tool (https://www.acs.org.au/professionalrecognition/mysfia-b2c.html) to build a skills profile.

This unit contributes to the following workplace skills as defined by SFIA 7:

- Emerging Technology Monitoring (EMRG)

Alignment of Learning Outcomes, Assessment and Graduate Attributes

— N/A Level ◦ Introductory Level • Intermediate Level ● Graduate Level ◦ Professional Level ◦ Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Group Discussion - 40%	•	•	•		•
2 - Presentation - 20%				•	•
3 - Written Assessment - 40%		•	•	•	

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Knowledge	○	○	○	○	
2 - Communication	○	○	○	○	○
3 - Cognitive, technical and creative skills	○	○	○	○	○
4 - Research	○	○	○	○	
5 - Self-management	○	○	○	○	○
6 - Ethical and Professional Responsibility			○	○	○
7 - Leadership					○
8 - Aboriginal and Torres Strait Islander Cultures					

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes							
	1	2	3	4	5	6	7	8
1 - Group Discussion - 40%	○	○	○	○	○	○	○	
2 - Presentation - 20%	○	○	○	○	○	○	○	
3 - Written Assessment - 40%	○	○	○	○	○	○		

Textbooks and Resources

Textbooks

There are no required textbooks.

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

Referencing Style

All submissions for this unit must use the referencing style: Harvard (author-date)
For further information, see the Assessment Tasks.

Teaching Contacts

Salahuddin Azad Unit Coordinator
s.azad@cqu.edu.au

Schedule

Week 1 - 09 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to e-Business and Emerging Technologies	Supplementary resources	

Week 2 - 16 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
Overview of Industry 4.0	Supplementary resources	

Week 3 - 23 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to IoT and Edge Computing	Supplementary resources	

Week 4 - 30 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Blockchain Technologies	Supplementary resources	

Week 5 - 06 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to AI and Deep Learning	Supplementary resources	

Vacation Week - 13 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
Enjoy the break!		

Week 6 - 20 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
Cognitive Security Techniques	Supplementary resources	

Week 7 - 27 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
Applications of IoT and Edge Computing in e-Business	Supplementary resources	

Week 8 - 04 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
Applications of Blockchain in e-Business	Supplementary resources	

Week 9 - 11 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
Applications of AI and Deep Learning in e-Business	Supplementary resources	

Week 10 - 18 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
Conversational Computing	Supplementary resources	**Group Presentation** Due: Week 10 Thursday (21 May 2020) 11:45 pm AEST

Week 11 - 25 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
Everything-as-a-Service (XaaS)	Supplementary resources	

Week 12 - 01 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic
Review Lecture		**Individual Case Study** Due: Week 12 Thursday (4 June 2020) 11:45 pm AEST

Review/Exam Week - 08 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic

Exam Week - 15 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

Email: s.azad@cqu.edu.au, Telephone: (03) 9616 0680 Office: Level 6, 120 Spencer Street, Melbourne.
If you have any queries, please email me and I will get back to you within one business day or so. For an individual discussion, please ring me during business hours (or leave a message if I am not in and I will return your call as soon as possible).

Assessment Tasks

1 Group Discussions

Assessment Type
Group Discussion

Task Description
Group discussions will take place in the Week 4-8 tutorials. You will form groups (of five members) and carry out a brief research on a given emerging technology and illustrate how the technology has evolved, its underlying designs, working principles, functions, and capabilities. You will analyse the emerging technology, its utilities, impacts, advantages and

disadvantages, and current and future applications in e-business. Each group will present their findings at the end of each tutorial session and submit their findings as a Word file to the Moodle unit site before leaving the classroom.

The detailed assessment specification will be made available in the Moodle unit website.

Assessment Due Date

As per schedule

Return Date to Students
Week 10 Friday (22 May 2020)

Weighting
40%

Assessment Criteria
You will be assessed based on your ability to demonstrate understanding of the emerging digital technologies, critically evaluate their future impacts, and work as a team member.

The detailed marking criteria will be made available in the Moodle unit website.

Referencing Style

- Harvard (author-date)

Submission
Online Group

Learning Outcomes Assessed

- Illustrate recent developments in disruptive digital technologies that will transform future businesses
- Evaluate underlying designs, working principles, functions, and capabilities of the emerging digital technologies
- Apply technical research skills to critically evaluate future impact of emerging digital technologies on e-business
- Work independently and contribute as a member of a team employing appropriate interpersonal, professional and technical communication skills.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management
- Ethical and Professional Responsibility
- Leadership

2 Group Presentation

Assessment Type
Presentation

Task Description
You will form groups (of five members) and each group will choose a business use case. You will then choose one or more emerging technologies to address the use case. You will describe how the chosen emerging technology(ies) fits into the use case and details of how the technology(ies) would address the requirements of the use case. You will also evaluate the benefits and ramifications (if any) of using these emerging technologies.

The detailed assessment specification will be made available in the Moodle unit website.

Assessment Due Date
Week 10 Thursday (21 May 2020) 11:45 pm AEST

Return Date to Students
Week 12 Thursday (4 June 2020)

Within two weeks of submission

Weighting
20%

Assessment Criteria
You will be assessed based on your ability to use emerging digital technologies to solve current and forthcoming e-business problems, and work as a team member.

Referencing Style

- Harvard (author-date)

Submission
Online Group

Learning Outcomes Assessed

- Use emerging digital technologies to solve current and forthcoming e-business problems
- Work independently and contribute as a member of a team employing appropriate interpersonal, professional and technical communication skills.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management
- Ethical and Professional Responsibility
- Leadership

3 Individual Case Study

Assessment Type
Written Assessment

Task Description
This is an individual assessment. Each student will analyse a given case study and identify the issues arising from the case study. Based on the issues found in the case study, you will identify a number of use cases. You will then choose a number of emerging digital technologies that can be leveraged to address those use cases.You will write a report illustrating how these emerging technologies would address the requirements of the chosen use cases.

In the main body of the report, you will include the following topics.

1. A background study of the chosen emerging technologies
2. A brief description of the capabilities, future potentials and applications of the chosen emerging technologies in e-business
3. An illustration of how the chosen emerging technologies would fit into the use cases
4. Details of how these technologies would address the requirements of the use cases

The detailed assessment specification will be made available in the Moodle unit website.

Assessment Due Date
Week 12 Thursday (4 June 2020) 11:45 pm AEST

Return Date to Students

On the day of Certification of Grades

Weighting
40%

Assessment Criteria
You will be assessed based on your ability to demonstrate understanding of the emerging digital technologies, critically evaluate their future impacts, and use those technologies to solve current and forthcoming e-business problems.
The detailed marking criteria will be made available in the Moodle unit website.

Referencing Style

- Harvard (author-date)

Submission
Online

Learning Outcomes Assessed

- Evaluate underlying designs, working principles, functions, and capabilities of the emerging digital technologies
- Apply technical research skills to critically evaluate future impact of emerging digital technologies on e-business
- Use emerging digital technologies to solve current and forthcoming e-business problems

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management
- Ethical and Professional Responsibility

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the **Student Academic Integrity Policy and Procedure**. This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?
A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?
A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?
For academic advice and guidance, the Academic Learning Centre (ALC) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?

Be Honest
If your assessment task is done by someone else, it would be dishonest of you to claim it as your own

Seek Help
If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)

Produce Original Work
Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem