



COMP6770

Management of IT Systems and Projects

Session 1, Special circumstances 2021

School of Computing

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Notice

As part of [Phase 3 of our return to campus plan](#), most units will now run tutorials, seminars and other small group activities on campus, and most will keep an online version available to those students unable to return or those who choose to continue their studies online.

To check the availability of face-to-face activities for your unit, please go to [timetable viewer](#). To check detailed information on unit assessments visit your unit's iLearn space or consult your unit convenor.

General Information

Unit convenor and teaching staff

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Credit points

10

Prerequisites

Corequisites

Co-badged status

COMP3770

Unit description

This unit aims to provide an understanding of how information technology systems and projects can be efficiently managed. This unit includes detailed study of techniques for planning, tracking and measuring software projects. Issues covered include: quality evaluation; estimation measurement techniques; and project risk planning and management. The unit provides a sound grounding in how projects can be managed in regards to quality assurance and risk assessment. The unit also covers issues in the management of IT systems, including: change management; configuration management and planning; people management; hardware asset management; and capacity planning and availability.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

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

ULO1: Demonstrate competence in planning, tracking and measuring Information technology projects; including the ability to undertake quality evaluation and estimation measurement techniques, and project risk planning and management.

ULO2: Analyse, describe and summarise appropriate techniques relating to: change management; configuration management and planning; human resource management; hardware asset management and capacity planning and availability.

ULO3: Demonstrate an appreciation of the role of the CIO in analysing the information technology strategic direction of a firm, with the aim of recommending investment appropriate to the business context.

ULO4: Demonstrate confidence in leadership skills; communication skills; critical analysis skills; problem-solving skills and creative thinking skills.

General Assessment Information

Late submission:

Late submission of individual work will incur a 10% penalty for every 24 hours, or part thereof, it is late. So within 24 hours, the maximum mark that can be obtained is 90% of the full grade for that assessment task; between 24 and 48 hours, the maximum mark that can be obtained is 80% of the full grade; and so on. No extra documentation is required unless the student wishes to have an extension (see below) applied.

Late submissions of group based assignments are not permitted unless under exceptional circumstances with documentary evidence provided to the unit convenor which may include medical certificates as per the Department of Computing policy. One person being sick does not

mean the group cannot submit work. Students are recommended to have a backup plan for group based submissions.

Assessment Tasks

Name	Weighting	Hurdle	Due
Assignment 1	10%	No	16th March
Assignment 2	20%	No	6th April
Assignment 3	20%	No	18th May
Online exam	50%	No	7-25th June

Assignment 1

Assessment Type [1](#): Literature review

Indicative Time on Task [2](#): 10 hours

Due: **16th March**

Weighting: **10%**

A literature review on an area of IT Project Management.

On successful completion you will be able to:

- Demonstrate competence in planning, tracking and measuring Information technology projects; including the ability to undertake quality evaluation and estimation measurement techniques, and project risk planning and management.

Assignment 2

Assessment Type [1](#): Modelling task

Indicative Time on Task [2](#): 20 hours

Due: **6th April**

Weighting: **20%**

A briefing on a contemporary IT project is given. The assignment involves planning the project with the assistance of MS Project and then providing a succinct Project Management Plan which includes the Gantt Chart, Network Diagram, Resource Allocation and addresses scope, objectives, success metrics, controls and risk management.

On successful completion you will be able to:

- Demonstrate competence in planning, tracking and measuring Information technology projects; including the ability to undertake quality evaluation and estimation measurement techniques, and project risk planning and management.
- Analyse, describe and summarise appropriate techniques relating to: change management; configuration management and planning; human resource management; hardware asset management and capacity planning and availability.

Assignment 3

Assessment Type ¹: Project

Indicative Time on Task ²: 20 hours

Due: **18th May**

Weighting: **20%**

Extensive background information is available for a failed system. Groups of 4 students will work on a new project plan outlining the context and business benefits and consider a more flexible project process model and formulate an effective risk management plan. A comprehensive report is required.

On successful completion you will be able to:

- Demonstrate competence in planning, tracking and measuring Information technology projects; including the ability to undertake quality evaluation and estimation measurement techniques, and project risk planning and management.
- Analyse, describe and summarise appropriate techniques relating to: change management; configuration management and planning; human resource management; hardware asset management and capacity planning and availability.
- Demonstrate an appreciation of the role of the CIO in analysing the information technology strategic direction of a firm, with the aim of recommending investment appropriate to the business context.
- Demonstrate confidence in leadership skills; communication skills; critical analysis skills; problem-solving skills and creative thinking skills.

Online exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 40 hours

Due: **7-25th June**

Weighting: **50%**

Examination on potentially all material covered in the unit undertaken online with scripts submitted through iLearn.

On successful completion you will be able to:

- Demonstrate competence in planning, tracking and measuring Information technology projects; including the ability to undertake quality evaluation and estimation measurement techniques, and project risk planning and management.
- Analyse, describe and summarise appropriate techniques relating to: change management; configuration management and planning; human resource management; hardware asset management and capacity planning and availability.
- Demonstrate an appreciation of the role of the CIO in analysing the information technology strategic direction of a firm, with the aim of recommending investment appropriate to the business context.
- Demonstrate confidence in leadership skills; communication skills; critical analysis skills; problem-solving skills and creative thinking skills.

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

Classes

Each week you should attend two hours of lectures (Monday 1-3pm) and practicals (from week 2). For details of days, times and rooms consult the [timetables webpage](#).

Note that practicals commence in week 2.

Resources to assist your learning

[Digital recordings](#) of lectures are available as **Echo360** through iLearn login.

Textbook

The textbook for COMP3770/6770 is the following. You may also use other editions if you wish.

- **Schwalbe, K., (2019) *Information Technology Project Management* 9th Ed.**
Thomson Course Technology Boston Mass. U.S.A

Technology used

Use will be made of MS Project, Google Code, JIRA, TRAC and GitHub. Students are also expected to make use of MS Word and MS Powerpoint.

Submission methods for assessment tasks:

Only soft copy assignment submissions are required and submitted. Marks returned will be done through the COMP3770/6770 page on iLearn.

Extensions

The current process is for the student or group to contact student services and apply for a disruption. Medical causes will require a Macquarie University Professional Authority Form.

Once a disruption has been approved, the convenor can grant special consideration which is usually an appropriate extension.

Exam:

The final exam will focus on content covered in the classes throughout the semester. Please see the assessments section for details on the final exam. If you are given a second opportunity to sit the final examination as a result of failing to meet the minimum mark required, you will be offered that chance during the same supplementary examination period and will be notified of the exact day and time after the publication of final results for the unit.

Unit Schedule

1 - Peter	Unit outline Introduction to PM The IT context	Unit guide Schwalbe Chap 1 Schwalbe Chap 2		Assign 1 released – PM report
2 - Peter	Scope management Time/schedule management	Schwalbe Chap 5 Schwalbe Chap 6	MS Project, Part 1	
3 - Peter	Cost management Quality management	Schwalbe Chap 7 Schwalbe Chap 8	MS Project, Part 2	Assign 2 released: Project planning - due 6/4/21
4 - Peter	Project Management process	Schwalbe Chap 3	Google Code	Assign 1 due 16/3/21
5 - Peter	Integration management	Schwalbe Chap 4	GitHub	

6 - Peter	Recap - buffer	chapters 1-8	JIRA and TRAC	Assign 3 released: due week 11 (18/5/21)
Mid Semester Break	2-18th April	including Easter		Assign 2 due 6/4/21
7 - Jian	HR/resource management	Schwalbe Chap 9		
8 - Jian	Communication management	Schwalbe Chap 10	Group time	
9 - Jian	Risk management	Schwalbe Chap 11	Group time	
10 - Jian	Mobile, social, wearables, trends Succeeding as a IT Professional	JWT, 2014 Professionals Australia	Group time	
11 - Jian	Procurement management The Internet of Things	Schwalbe Chap 12 BI Intelligence, 2014	Group time	Assign 3 due 18/5/21
12 - Jian	Stakeholder management	Schwalbe Chap 13		
13 - Peter/Jian	Exam revision	Exam topics will be outlined		
Exam	7-25th June	Check online for details		50% of Final Mark

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Grade Appeal Policy](#)
- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies](https://students.mq.edu.au/support/study/policies) (<https://students.mq.edu.au/support/study/policies>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central](https://policies.mq.edu.au) (<https://policies.mq.edu.au>) and use the [search tool](#).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to help you improve your marks and take control of your study.

- [Getting help with your assignment](#)
- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

Changes from Previous Offering

This year there is no third lecture acting as a tutorial. The tutorial questions and answers will simply be provided in a timed-release manner to help with revision. Tutorial questions and answers may also be discussed in the practicals in the second half of semester.

Standards

Four standards, namely HD, D, CR, P summarize as many different levels of achievement. Each standard is precisely defined to help students know what kind of performance is expected to deserve a certain mark. The standards corresponding to the [learning outcomes of this unit](#) are given below:

HD	Apply techniques and knowledge in new contexts, show breadth and depth of understanding of quality evaluation, estimation measurement, project risk planning and measurement. Can use MS Project and Sharepoint to solve problems with high accuracy.	A sound grounding in how projects can be managed in regards to quality assurance and risk assessment. Show breadth and depth of understandings on issues in the management of IT systems, including: change management, configuration management and planning, People management, hardware asset management and capacity planning and availability. Able to apply these techniques and knowledge in new contexts.	Demonstrate leadership, creativity, critical thinking and analysis skills. Enthusiatic in acquiring new knowledge in the IS project management area. Demonstrate capability in applying new IS project management knowledge to solve real-world problems. Conduct team work effectively and play a key role in moving the whole project team forward.
D	Apply techniques and knowledge in some new contexts, show breadth and depth of understanding across most of the topics including: quality evaluation, estimation measurement, project risk planning and measurement. Can use MS Project to solve problems, with limited errors.	A sound grounding in most topics related to how projects can be managed in regards to quality assurance and risk assessment. Show breadth and depth of understandings on most issues in the management of IT systems, including: change management, configuration management and planning, People management, hardware asset management and capacity planning and availability. Able to apply these techniques and knowledge in some new contexts.	Demonstrate some leadership occasionally. Show creativity, critical thinking and analysis skills. Have the capability in applying IS project management knowledge to solve real-world problems. Collaborate with team members well and finish assigned tasks on time and with good quality.

CR	Show breadth of understanding across most of the topics including: quality evaluation, estimation measurement, project risk planning and measurement. Have fundamental knowledge about how to use MS Project, but with some non-major errors.	Understands some aspects of how projects can be managed in regards to quality assurance and risk assessment. Show breadth of understandings on most issues in the management of IT systems, including: change management, configuration management and planning, People management, hardware asset management and capacity planning and availability.	Demonstrate analysis skills in some occasions. Know how to apply IS project management knowledge to solve some of the real-world problems. Able to finish assigned tasks on time and with good quality most of the time.
P	Can reproduce definitions and ideas, show some breadth of understanding of the topics including: quality evaluation, estimation measurement, project risk planning and measurement. Some knowledge about MS Project with a few major misunderstandings or mistakes.	Can reproduce some definitions and ideas, show some breadth on issues in the management of IT systems, including: change management, configuration management and planning, People management, hardware asset management and capacity planning and availability.	Demonstrate limited analysis skills. Can apply IS project management knowledge to solve limited real-world problems. Able to finish all assigned tasks on time and with acceptable quality.

Grading

At the end of the semester, you will receive a grade that reflects your achievement in the unit

- **Fail (F):** does not provide evidence of attainment of all learning outcomes. There is missing or partial or superficial or faulty understanding and application of the fundamental concepts in the field of study; and incomplete, confusing or lacking communication of ideas in ways that give little attention to the conventions of the discipline.
- **Pass (P):** provides sufficient evidence of the achievement of learning outcomes. There is demonstration of understanding and application of fundamental concepts of the field of study; and communication of information and ideas adequately in terms of the conventions of the discipline. The learning attainment is considered satisfactory or adequate or competent or capable in relation to the specified outcomes.
- **Credit (Cr):** provides evidence of learning that goes beyond replication of content knowledge or skills relevant to the learning outcomes. There is demonstration of substantial understanding of fundamental concepts in the field of study and the ability to apply these concepts in a variety of contexts; plus communication of ideas fluently and clearly in terms of the conventions of the discipline.
- **Distinction (D):** provides evidence of integration and evaluation of critical ideas, principles and theories, distinctive insight and ability in applying relevant skills and concepts in relation to learning outcomes. There is demonstration of frequent originality in defining and analysing issues or problems and providing solutions; and the use of means of communication appropriate to the discipline and the audience.

- **High Distinction (HD):** provides consistent evidence of deep and critical understanding in relation to the learning outcomes. There is substantial originality and insight in identifying, generating and communicating competing arguments, perspectives or problem solving approaches; critical evaluation of problems, their solutions and their implications; creativity in application.

The final mark for the unit will be calculated by combining the marks for all assessment tasks according to the percentage weightings shown in the assessment summary.

Changes since First Published

Date	Description
15/02/2021	Naime can not be a practical demonstrator and has been replaced by Yang Zhang.
08/02/2021	The unit schedule dates were wrong.