

ITEC810 Information Technology Project

S1 Evening 2019

Dept of Computing

Contents

General Information	2
Learning Outcomes	2
General Assessment Information	3
Assessment Tasks	4
Delivery and Resources	8
Unit Schedule	10
Learning and Teaching Activities	12
Policies and Procedures	12
Graduate Capabilities	14
Changes from Previous Offering	17
Standards	17
Changes since First Published	20

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General Information

Unit convenor and teaching staff Convenor and Lecturer Abhaya Nayak abhaya.nayak@mq.edu.au Contact via Email BD-352 Friday 4pm-5pm Credit points 4 Prerequisites (Admission to MInfoTech or MCyberSec) and ITEC812

Corequisites

Co-badged status

Unit description

Depending upon a candidate's specialist stream, interests and employment circumstances, this unit may comprise literature research, a case study, a software project development, or a project sponsored by the candidate's employer. Candidates are expected to demonstrate initiative and independence in researching, executing and documenting an involved information and communications technology project as well as its ethical implications.

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:

Apply research methods in the planning, analysis, design, implementation, delivery and maintenance of software systems, considering the importance of professional ethics, and of how to recognize and address ethical issues when they arise.

Design and execute a project from a brief initial specification through to a complete set of agreed outcomes and demonstrate an advanced understanding for systems analysis and/or development projects in the area of IT.

Conduct a survey of the background literature, drawing out the key themes and issues

and making comparisons between previous research studies and the research methods used for investigation and implementation of software systems.

Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; and give clear, concise and coherent verbal presentations.

Develop better understanding of one's own strengths and weaknesses, and ability to utilise these.

Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

General Assessment Information

Each assessment task submitted will be given a numerical mark as an indication of the standard reached.

Final Grades

At the end of the semester, you will receive a final grade based on the sum total of all the marks you receive in different assessment tasks. Specifically, in order to pass the unit, you should earn a total of at least 50 marks out of the maximum possible 100 marks in the unit. The Final Grade that you receive reflects your overall achievement in the unit. Different grades are defined in general terms as follows.

- Fail (F) -- total mark less than 50 -- 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. That is, overall work is unsatisfactory or still developing according to the standards defined above.
- Pass (P) -- total mark between 50 and 64 -- 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 or functional in relation to the specified outcomes.
- Credit (Cr) --total mark between 65 and 74 -- 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.

The overall learning attainment is proficient.

- Distinction (D) --total mark between 75 and 84 -- 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. The overall learning attainment is advanced.
- High Distinction (HD) -- total mark of 85 or above -- 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 overall learning attainment is outstanding.

With respect to the *quality of the projects* in particular, the higher grades have the following connotation:

- High Distinction: Outstanding quality IT projects with the addition of originality and/or creativity achieved by an outstanding understanding of concepts. Students are expected to go beyond the limits of lecture material.
- Distinction: Superior quality IT projects achieved by superior understanding of concepts. Students are expected to master the lecture material. They are expected to successfully achieve all the goals defined in the IT project.
- Credit: Good understanding of concepts and good quality IT projects. Students are expected to have good understanding of the lecture material. They are expected to successfully achieve most of the goals listed in IT project.

Assessment Tasks

Name	Weighting	Hurdle	Due
Preliminary Proposal	11%	No	Week 3; Friday
Revised Proposal	11%	No	Week 6; Friday
Preliminary Report	11%	No	Week 9; Friday
Final Report	45%	No	Week 13, Friday
Interim class Presentation	5%	No	Weeks 3, 6, 9 Fridays

Name	Weighting	Hurdle	Due
Interim presentation slides	2%	No	Weeks 3, 6, 9; Fridays
Workshop presentation	15%	No	Week 13

Preliminary Proposal

Due: Week 3; Friday Weighting: 11%

Submission of the preliminary proposal, about 2 pages, with peer review (Week 3, Weight 11%)

On successful completion you will be able to:

- Apply research methods in the planning, analysis, design, implementation, delivery and maintenance of software systems, considering the importance of professional ethics, and of how to recognize and address ethical issues when they arise.
- Design and execute a project from a brief initial specification through to a complete set of agreed outcomes and demonstrate an advanced understanding for systems analysis and/or development projects in the area of IT.
- Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; and give clear, concise and coherent verbal presentations.
- Develop better understanding of one's own strengths and weaknesses, and ability to utilise these.
- Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

Revised Proposal

Due: Week 6; Friday Weighting: 11%

Submission of a revised proposal taking into account feedback received on preliminary proposal, about 4 pages, with peer review (due Week 6, Weight 11%)

On successful completion you will be able to:

- Apply research methods in the planning, analysis, design, implementation, delivery and maintenance of software systems, considering the importance of professional ethics, and of how to recognize and address ethical issues when they arise.
- · Design and execute a project from a brief initial specification through to a complete set of

agreed outcomes and demonstrate an advanced understanding for systems analysis and/or development projects in the area of IT.

- Conduct a survey of the background literature, drawing out the key themes and issues and making comparisons between previous research studies and the research methods used for investigation and implementation of software systems.
- Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; and give clear, concise and coherent verbal presentations.
- Develop better understanding of one's own strengths and weaknesses, and ability to utilise these.
- Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

Preliminary Report

Due: Week 9; Friday Weighting: 11%

Submission of a draft project report, with peer review (about 7 pages; Weight 11%)

On successful completion you will be able to:

- Apply research methods in the planning, analysis, design, implementation, delivery and maintenance of software systems, considering the importance of professional ethics, and of how to recognize and address ethical issues when they arise.
- Design and execute a project from a brief initial specification through to a complete set of agreed outcomes and demonstrate an advanced understanding for systems analysis and/or development projects in the area of IT.
- Conduct a survey of the background literature, drawing out the key themes and issues and making comparisons between previous research studies and the research methods used for investigation and implementation of software systems.
- Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; and give clear, concise and coherent verbal presentations.
- Develop better understanding of one's own strengths and weaknesses, and ability to utilise these.
- Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

Final Report

Due: Week 13, Friday Weighting: 45%

Submission of Final Report with peer review (10 pages): Week 13 (Weight 45%)

On successful completion you will be able to:

- Apply research methods in the planning, analysis, design, implementation, delivery and maintenance of software systems, considering the importance of professional ethics, and of how to recognize and address ethical issues when they arise.
- Design and execute a project from a brief initial specification through to a complete set of agreed outcomes and demonstrate an advanced understanding for systems analysis and/or development projects in the area of IT.
- Conduct a survey of the background literature, drawing out the key themes and issues and making comparisons between previous research studies and the research methods used for investigation and implementation of software systems.
- Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; and give clear, concise and coherent verbal presentations.
- Develop better understanding of one's own strengths and weaknesses, and ability to utilise these.
- Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

Interim class Presentation

Due: Weeks 3, 6, 9 Fridays Weighting: 5%

About one-third of the class will be randomly selected to make an interim presentation in weeks 3, 6, and 9. Every student will be picked to make at least one interim presentation. If a student gets to make multiple presentation, the better mark will count. Every student must be prepared to make presentation in each of these sessions, since if the student is not present (without good reason) or is not prepared to make the presentation will attract penalty.

More classes may be organised outside these three weeks if class size necessitates it.

On successful completion you will be able to:

• Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; and

give clear, concise and coherent verbal presentations.

- Develop better understanding of one's own strengths and weaknesses, and ability to utilise these.
- Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

Interim presentation slides

Due: Weeks 3, 6, 9; Fridays Weighting: 2%

Students will submit three sets of slides corresponding to the three interim presentations. Each student will receive a final mark out of 5 for a presentation he or she makes. They will receive 1 mark each based on the slides they did not present (or presented but the mark was overridden by a better presentation).

On successful completion you will be able to:

- Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; and give clear, concise and coherent verbal presentations.
- Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

Workshop presentation

Due: Week 13 Weighting: 15%

There will be an end-semester workshop in which all students will make their final presentation in multiple parallel sessions. Mark will be based on audience feedback.

On successful completion you will be able to:

- Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; and give clear, concise and coherent verbal presentations.
- Develop better understanding of one's own strengths and weaknesses, and ability to utilise these.
- Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

Delivery and Resources

ITEC810 is taught via seminars and presentations. The feedback that you receive on writing and

presentations plays a crucial role in your learning.

Make sure you are completely familiar with the content of the official Unit Outline. You are expected to regularly meet your supervisor by making an appointment. You should also attend all the lectures and presentations.

- Note that we will be using iLearn as the central web-based communication point for this unit. If you are enrolled in the unit, it is essential that you check the iLearn site once a day, since important information will always be posted there in the News Forum. You should be able to login to iLearn using your MQ student ID and password; if you experience any problems, contact the Faculty of Science IT Help Desk. The IT help desk website is located at http://web.science.mg.edu.au/it/doc//helpdesk/.
- 2. The core of this unit is a project. You will be working on a project agreed upon with the unit convenor.
- 3. Classes will be held in Room 114 of 25aWW on Friday evenings from 6pm to 9pm; note that for this unit you are also expected to be working on your project during the recess, so there are really 15 weeks that are relevant for scheduling purposes. Make sure you are familiar with the class schedule.
- 4. Check out how the assessment for the unit works.
- 5. The unit culminates in an end-of-semester workshop where everyone gives a presentation on their project.

Other Resources

A significant proportion of the class time in this unit focuses on communication skills, but we don't have the time or space to go into some matters in as much detail as some people would like. If you would like to improve your skills in academic writing, you should check out the <u>Postgra</u> duate Academic Literacy Workshops.

You have many opportunities to seek for and to receive feedback. During seminars, you are encouraged to ask the lecturer questions to clarify anything you might not be sure of. You will be regularly given assignments to complete. This will at times involve contributing to a group of students and presenting solutions to the class. The comments and the solutions provided will help you to understand the objectives of the unit, prepare you for the work in assignments. It is important that you keep up with these assignments on a timely fashion.

Discussion Boards The unit makes use of discussion boards hosted within iLearn. Please post questions of general interest there (for example, about assessment tasks), they are monitored by the staff on the unit.

Student Support Services Macquarie University provides a range of Academic Student Support Services. Details of these services can accessed at http://www.student.mq.edu.au.

If you have exhausted all other avenues, then you should consult Director of Postgraduate Program or the Head of Department. You are entitled to have your concerns raised, discussed and resolved.

Technology Used and Required

The written reports and presentations are expected to make use of MS Word, MS Excel and MS Powerpoint (or equivalant). Programming languages and technologies to be used depend on the requirements of the project. You may consult your project supervisor regarding these.

Submission Methods

All assessment task are expected to be submitted on ilearn.

Extensions

Extensions for the assessments are allowed only in exceptional circumstances. You must discuss this with the unit convenor prior to the submission deadline.

Penalties

Penalties are applied for late submissions. 10% of the total marks for each assignment will deducted for every 24 hours after the submission deadline.

Resubmission

Resubmission of assessment tasks may be allowed in exceptional circumstances. You must discuss this with the unit convenor after the submission deadline.

What to submit

- 1. There are altogether eight items to submit: four "reports" and four sets of presentation slides.
 - The four reports are: preliminary proposal, revised proposal, preliminary report, and final report.
 - The four sets of slides correspond to the four written submissions.
- 2. Submission of each set of slides is followed by an associated presentation.
- 3. The reports and associated presentation slides will need to be submitted by appropriate deadline. All submissions must be in appropriate format, and be appropriately named.
- 4. All submissions (reports as well as presentation slides) must be submitted via iLearn.

Unit Schedule

Classes are scheduled for Fridays from 6pm to 9pm, and held together with itec812. We will meet less frequently in the later half of the semester. The first scheduled class is in Week 1, and the current schedule for all weeks is shown below. Note that this schedule is still provisional, and the particular Fridays we meet may change at short notice depending upon circumstances. So you should be prepared for attendance every Friday during semester.

In general, on each occasion that we meet, around half of the class time will be in the form of a lecture and discussion session on material that is relevant to an upcoming assessable activity; the other half of the class will be occupied by class members giving short presentations on

progress on their projects.

WEEK 1 Friday	Class Logistics; Assessment and Expectations; Writing Up Your Project Proposal;	
WEEK 2 Friday	NO CLASS	
WEEK 3 Friday	Writing a proposal: Brief Presentation of preliminary proposals	Preliminary proposal
WEEK 4 Friday	NO CLASS	
WEEK 5 Friday	NO CLASS	Easter Friday
WEEK 6 Friday	Revised project proposals	Project Proposal
WEEK 7 Friday	NO CLASS	
	MID-SEMESTER BREAK	
WEEK 8 Friday	NO CLASS	
WEEK 9 Friday	Report Writing Preliminary report presentations	Preliminary Reports
WEEK 10 Friday	NO CLASS	
WEEK 11 Friday	NO CLASS	
WEEK 12 Friday	NO CLASS	Final Report Submission
WEEK 13 Friday	Postgraduate Workshop	Final Report Presentation

Learning and Teaching Activities

Lectures

Lectures given by unit staff

Presentations

Preparing Presentation Slides followed by Verbal and visual presentations given by students

Assignments

Reports, abstracts, and report outlines

Assignment Feedback

Academic evaluation of assignments

Policies and Procedures

Macquarie University policies and procedures are accessible from <u>Policy Central (https://staff.m</u> <u>q.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-centr</u> <u>al</u>). 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
- <u>Special Consideration Policy</u> (*Note: The Special Consideration Policy is effective from 4* December 2017 and replaces the Disruption to Studies Policy.)

Undergraduate students seeking more policy resources can visit the <u>Student Policy Gateway</u> (htt ps://students.mq.edu.au/support/study/student-policy-gateway). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (http s://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/p olicy-central).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/study/getting-started/student-conduct

Results

Results published on platform other than <u>eStudent</u>, (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 <u>eStudent</u>. For more information visit <u>ask.mq.edu.au</u> or if you are a Global MBA student contact globalmba.support@mq.edu.au

Special Consideration:

If you receive <u>special consideration</u> for the final exam, a supplementary exam will be scheduled in the interval between the regular exam period and the start of the next session. By making a special consideration application for the final exam you are declaring yourself available for a resit during the supplementary examination period and will not be eligible for a second special consideration approval based on pre-existing commitments. Please ensure you are familiar with the <u>policy</u> prior to submitting an application. You can check the supplementary exam information page on FSE101 in iLearn (bit.ly/FSESupp) for dates, and approved applicants will receive an individual notification one week prior to the exam with the exact date and time of their supplementary examination.

Penalty for late assignments:

No extensions for assignments will be granted. Late assignments will be accepted up to 72 hours after the submission deadline. There will be a deduction of 10% of the total available marks made from the total awarded mark for each 24 hour period or part thereof that the submission is late (for example, 25 hours late in submission – 20% penalty).

If you are unable to submit an assignment on time due to unavoidable disruption (such as illness) then you should (1) notify the convenor immediately by email (2) submit what you have achieved by the deadline and (3) formally lodge a notification of disruption.

Student Support

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

Learning Skills

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

- Workshops
- StudyWise
- Academic Integrity Module for Students
- Ask a Learning Adviser

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 <u>http://www.mq.edu.au/about_us/</u>offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the <u>Acceptable Use of IT Resources Policy</u>. The policy applies to all who connect to the MQ network including students.

Graduate Capabilities

PG - Capable of Professional and Personal Judgment and Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

Learning outcomes

- Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; and give clear, concise and coherent verbal presentations.
- Develop better understanding of one's own strengths and weaknesses, and ability to utilise these.

Assessment tasks

- Revised Proposal
- Preliminary Report
- · Final Report

PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

Learning outcomes

• Apply research methods in the planning, analysis, design, implementation, delivery and

maintenance of software systems, considering the importance of professional ethics, and of how to recognize and address ethical issues when they arise.

- Design and execute a project from a brief initial specification through to a complete set of agreed outcomes and demonstrate an advanced understanding for systems analysis and/or development projects in the area of IT.
- Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

Assessment tasks

- Preliminary Proposal
- Revised Proposal
- Preliminary Report
- Final Report
- Interim class Presentation
- Interim presentation slides
- Workshop presentation

PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

Learning outcomes

- Conduct a survey of the background literature, drawing out the key themes and issues and making comparisons between previous research studies and the research methods used for investigation and implementation of software systems.
- Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

Assessment tasks

- Preliminary Proposal
- Revised Proposal
- Preliminary Report
- Final Report
- Interim class Presentation

- Interim presentation slides
- Workshop presentation

PG - Research and Problem Solving Capability

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

Learning outcomes

- Design and execute a project from a brief initial specification through to a complete set of agreed outcomes and demonstrate an advanced understanding for systems analysis and/or development projects in the area of IT.
- Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; and give clear, concise and coherent verbal presentations.
- Develop better understanding of one's own strengths and weaknesses, and ability to utilise these.

Assessment tasks

- Revised Proposal
- Preliminary Report
- Final Report
- Interim class Presentation
- · Interim presentation slides
- Workshop presentation

PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

Learning outcome

• Present the results of work carried out in a detailed and appropriately structured report, and communicate effectively in both spoken and written forms.

Assessment tasks

- Preliminary Proposal
- Revised Proposal
- Preliminary Report
- Final Report
- Interim class Presentation
- Interim presentation slides
- Workshop presentation

PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues

This graduate capability is supported by:

Learning outcome

 Apply research methods in the planning, analysis, design, implementation, delivery and maintenance of software systems, considering the importance of professional ethics, and of how to recognize and address ethical issues when they arise.

Changes from Previous Offering

A fair bit of change in unit structure.

Students will mostly work on given projects agreed upon with the unit convenor. In general there will be no special supervisor -- the convenor will work as the supervisor.

Considering the class size, each student will make one interim presentation whose mark will count -- about one third of the class will be randomly chosen to make presentations in the three weeks we meet for this purpose, while it will be ensured that every student makes at least one presentation.

As part of research training, each student will review one submission (proposal / report) by a different student.

Weight of the tasks have been accordingly modified.

Standards

Standards

The assessment task submitted will be given a numerical mark indicating the standard level

reached: unsatisfactory, developing, functional, proficient and advanced. These standard levels summarize different levels of achievement in relation to learning outcomes as defined below.

Standards

Learning Oucome #1	Unsatisfactory	Developing	Functional	Proficient	Advanced
Use research methods in the planning, analysis, design, implementation, delivery and maintenance of software systems, considering the importance of professional ethics, and of how to recognize and address ethical issues when they arise.	Unsatisfactory or poor understanding of IT principles as assessed in Progress Report, Project Description, Project Proposal, Ethics Assignment, and Final Report. Significantly more work is needed to achieve final grade of Pass.	Developing understanding of IT principles as assessed in Progress Report, Project Description, Project Proposal, Ethics Assignment, and Final Report. Improvement is needed to achieve final grade of Pass.	Satisfactory understanding of IT principlesas assessed in Progress Report, Project Description, Project Proposal, Ethics Assignment, and Final Report.	Good to very good understanding of principles as assessed in Progress Report, Project Description, Project Proposal, Ethics Assignment, and Final Report.	Superior understanding of principles as assessed in Progress Report, Project Description, Project Proposal, Ethics Assignment, and Final Report.
Learning Oucome #2	Unsatisfactory	Developing	Functional	Proficient	Advanced
Plan and execute a project from a brief initial specification through to a complete set of agreed outcomes and demonstrate an advanced understanding for systems analysis and/ or development projects in the area of IT.	Unsatisfactory implementation of IT project or the analysis work as assessed in Progress Report, Project Description, Project Proposal, Ethics Assignment, Report Outline, and Final Report. Significantly more work is needed to achieve final grade of Pass.	Developing ability to implement IT applications or systems analysis as assessed in Progress Report, Project Description, Project Proposal, Ethics Assignment, Report Outline, and Final Report. Improvement is needed to achieve final grade of Pass.	Satisfactory implementation of IT project or systems analysis as assessed in Progress Report, Project Description, Project Proposal, Ethics Assignment, Report Outline, and Final Report.	Good to very good quality IT project as assessed in Progress Report, Project Description, Project Proposal, Ethics Assignment, Report Outline, and Final Report.	Superior quality IT project with the addition of originalit and/or creativity as assessed in Progress Report, Project Description, Project Proposal, Ethics Assignment, Report Outline, and Final Report.
Learning Oucome #3	Unsatisfactory	Developing	Functional	Proficient	Advanced
Write a survey as a collection of literature or background information, drawing out the key themes and issues and draw comparisons between previous research studies and the research methods used for investigation and implementation of software systems.	Unsatisfactory survey in the IT project as assessed in Project Proposal and Final Report. Significantly more work is needed to achieve final grade of Pass.	Developing ability in surveys for IT applications as assessed in Project Proposal and Final Report. Improvement is needed to achieve final grade of Pass.	Satisfactory surveys for IT applications as assessed in Project Proposal and Final Report.	Good to very good quality IT surveys as assessed in Project Proposal and Final Report.	Superior quality IT survey with the addition of originalit and/or creativity as assessed in Project Proposal and Final Report.

Learning Oucome #4	Unsatisfactory	Developing	Functional	Proficient	Advanced
Develop academic skills such as academic writing and oral presentation, note-taking and revision, locating information, and managing deadlines and heavy reading loads; as well as an ability to give clear, concise and coherent verbal presentations.	Unsatisfactory reporting and presentation skills as assessed in Progress Report, Project Description, Initial presentation, Project Proposal, Report Outline, Final presentation, and Final Report. Significantly more work is needed to achieve final grade of Pass.	Developing ability in reporting and presentation of IT projects as assessed in Progress Report, Project Description, Initial presentation, Project Proposal, Report Outline, Final presentation, and Final Report. Improvement is needed to achieve final grade of Pass.	Satisfactory reporting and presentation skills as assessed in Progress Report, Project Description, Initial presentation, Project Proposal, Report Outline, Final presentation, and Final Report.	Good to very good quality reporting and presentation skills as assessed in Progress Report, Project Description, Initial presentation, Project Proposal, Report Outline, Final presentation, and Final Report.	Superior quality reporting and presentation skills with the addition of originality and/or creativity as assessed in Progress Report, Project Description, Initial presentation, Project Proposal, Report Outline, Final presentation, and Final Report.
Learning Oucome #5	Unsatisfactory	Developing	Functional	Proficient	Advanced
Develop better understanding of their own strengths and weaknesses, and ability to utilise these.	Unsatisfactory reporting skills in the IT project as assessed in Progress Reports. Significantly more work is needed to achieve final grade of Pass.	Developing reporting skills in the IT project as assessed in Progress Reports. Improvement is needed to achieve final grade of Pass.	Satisfactory reporting skills in the IT project as assessed in Progress Reports.	Good to very good quality reporting skills in the IT project as assessed in Progress Reports.	Superior quality reporting skills in the IT project with the addition of originality and/or creativity as assessed in Progress Reports.
Learning Oucome #6	Unsatisfactory	Developing	Functional	Proficient	Advanced
Clearly present the results of work carried out in a detailed and appropriately structured report and communicate effectively in both spoken and written academic forms.	Unsatisfactory reporting skills in the IT project as assessed in all assessment items. Significantly more work is needed to achieve final grade of Pass	Developing reporting skills in the IT project as assessed in all assessment items. Improvement is needed to achieve final grade of Pass.	Satisfactory reporting skills in the IT project as assessed in all assessment items.	Good to very good quality reporting skills in the IT project as assessed in all assessment items.	Superior quality reporting skills in the IT project with the addition of originality and/or creativity as assessed in all assessment items.

Changes since First Published

Date	Description
12/ 04/ 2019	The assessment structure has changed because of substantial change in class size as well as students, by and large, working on projects subsumed under two generic topics. So the number of presentations students make has been reduced from 3 to 1. Furthermore students are being asked to review other students' submissions as part of research training, and some marks are allotted to the review tasks. Students were informed of this change verbally in the class in Week 1 (Friday), informed of it via iLeartn Announcement on the following Monday (Week 2), and a clear assessment structure was made available on iLearn as part of the unit organisation document.
20/ 02/ 2019	changed co-badged status from yes to no.