



UNSW Course Outline

ZEIT8247 Test and Evaluation Project - 2024

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General Course Information

Course Code : ZEIT8247

Year : 2024

Term : Semester 1

Teaching Period : Z1

Is a multi-term course? : No

Faculty : UNSW Canberra

Academic Unit : School of Systems and Computing

Delivery Mode : Online

Delivery Format : Standard

Delivery Location : UNSW Canberra at ADFA

Campus : UNSW Canberra

Study Level : Postgraduate

Units of Credit : 3

[Useful Links](#)

[Handbook Class Timetable](#)

Course Details & Outcomes

Course Description

To reinforce the theory introduced in ZEIT8248 *Test and Evaluation Knowledge* this Project course involves simulated design exercises that allows students to build on their fundamental understanding of the application of the various types of test and evaluation across the system

life cycle. Students are practiced in applying their knowledge to the development of a range of test and evaluation artefacts as part of the systems engineering and project management activities associated with a simulated project.

Relationship to Other Courses

ZEIT 8247 (Test and Evaluation Project) enables students who have completed ZEIT 8231 (Introduction to Test and Evaluation) and ZEIT 8034 (Advanced Test Techniques) to apply their theory to an individual research project with supervision and mentoring.

Course Learning Outcomes

| Course Learning Outcomes | International Council on Systems Engineering (INCOSE) |
|---|---|
| CLO1 : Identify the role of test and evaluation in a representative simulated project; | <ul style="list-style-type: none">• KNOW2.8 : Understand the importance of verification in the system process• KNOW2.9 : Understand the importance of validation to the stakeholders |
| CLO2 : Identify the types of test and evaluation and their application within the system life cycle to a representative simulated project; | <ul style="list-style-type: none">• KNOW4.2 : Know the organizational activities that generate and support system development• KNOW2.10 : Understand the activities necessary for the customer to employ the system |
| CLO3 : Develop the various test and evaluation measures suitable for a representative simulated project; | <ul style="list-style-type: none">• KNOW3.6 : Understand the contribution systems engineering makes to information, measurement, and quality assurance processes |
| CLO4 : Undertake the planning associated with planning test and evaluation for a representative simulated project; | <ul style="list-style-type: none">• KNOW4.2 : Know the organizational activities that generate and support system development• KNOW3.4 : Understand the importance of risk management in the system development process• KNOW3.7 : Understand the importance of providing evidence of implementation compliance |
| CLO5 : Develop the artefacts associated with planning test and evaluation for a representative simulated project; and | <ul style="list-style-type: none">• KNOW6.3 : Understand how modeling can benefit the systems engineering and the life cycle process• KNOW3.7 : Understand the importance of providing evidence of implementation compliance• KNOW2.5 : Know the importance of the design definition process and its relationship to implementation |
| CLO6 : Develop the management artefacts associated with test and evaluation, including test conduct and reporting for a representative simulated project. | <ul style="list-style-type: none">• KNOW4.1 : Understand How Systems Engineering Supports the Agreement Processes• KNOW3.3 : Understand how decision management supports the other processes• KNOW2.8 : Understand the importance of verification in the system process• KNOW2.9 : Understand the importance of validation to the stakeholders |

| Course Learning Outcomes | Assessment Item |
|---|-----------------|
| CLO1 : Identify the role of test and evaluation in a representative simulated project; | • Assignment 1 |
| CLO2 : Identify the types of test and evaluation and their application within the system life cycle to a representative simulated project; | • Assignment 1 |
| CLO3 : Develop the various test and evaluation measures suitable for a representative simulated project; | • Assignment 1 |
| CLO4 : Undertake the planning associated with planning test and evaluation for a representative simulated project; | • Assignment 2 |
| CLO5 : Develop the artefacts associated with planning test and evaluation for a representative simulated project; and | • Assignment 2 |
| CLO6 : Develop the management artefacts associated with test and evaluation, including test conduct and reporting for a representative simulated project. | • Assignment 2 |

Learning and Teaching Technologies

Moodle - Learning Management System | Microsoft Teams

Additional Course Information

Students must propose a research topic to supervisors with a record of independent study of at least distinction standard. Enrollment may be declined if supervisors with the collective requisite experience and interest cannot be found. Students usually research applying test design or other planning techniques to their industry where the approach is original to the industry, at least nationally (i.e., within Australia). The project is taken over two semesters. In the first semester, students usually deepen their literature and method research for the topic, submitting a research paper and presentation for national publication, alerting their industry and research community to their research. In the second semester, they will implement their research, usually as a case study and submit a research article internationally. A grade is awarded at the end of the project (i.e., second semester). In the event publication is not achieved, the submissions will be graded.

Assessments

Assessment Structure

| Assessment Item | Weight | Relevant Dates |
|-----------------|--------|----------------|
| Assignment 1 | 50% | |
| Assignment 2 | 50% | |

Assessment Details

Assignment 1

Assessment Overview

Students are expected to spend approximately 40 hours in completion of this assignment (approximately five hours per question).

The aim of the assignment is to allow students to demonstrate your understanding of the requirements engineering process.

No more than 1,250–1,500 words are required for each question.

Course Learning Outcomes

- CLO1 : Identify the role of test and evaluation in a representative simulated project;
- CLO2 : Identify the types of test and evaluation and their application within the system life cycle to a representative simulated project;
- CLO3 : Develop the various test and evaluation measures suitable for a representative simulated project;

Detailed Assessment Description

In the first semester, students usually deepen their literature and method research for the topic, submitting a research paper and presentation for national publication, alerting their industry and research community to their research. The assignment depth and time is based upon the submission requirements. A grade is awarded at the end of the project (i.e., second semester). In the event publication is not achieved, the submissions will be graded.

Assignment 2

Assessment Overview

Students are expected to spend approximately 40 hours in completion of this assignment (approximately five hours per question).

The aim of the assignment is to allow students to demonstrate your understanding of the requirements engineering process.

No more than 1,250–1,500 words are required for each question.

Course Learning Outcomes

- CLO4 : Undertake the planning associated with planning test and evaluation for a representative simulated project;

- CLO5 : Develop the artefacts associated with planning test and evaluation for a representative simulated project; and
- CLO6 : Develop the management artefacts associated with test and evaluation, including test conduct and reporting for a representative simulated project.

Detailed Assessment Description

The project is taken over two semesters. In the second semester, they will implement their research, usually as a case study and submit a research article internationally. The depth and requirements of the second assignment are based on the research submission requirements set by the chosen publication. A grade is awarded at the end of the project (i.e., second semester). In the event publication is not achieved, the submissions will be graded.

General Assessment Information

Grading Basis

Standard

Requirements to pass course

A grade is awarded at the end of the project (i.e., second semester). In the event publication is not achieved, the submissions will be graded. Because this subject is a research project submissions will be checked for plagiarism either through the supervisors using iThenticate or by the journal accepting the submission.

Course Schedule

Attendance Requirements

In the first semester, students are expected to meet at least fortnightly with the supervisors for up to an hour to show their research progress and develop submissions. In the second semester, these meetings may be reduced to select review and attendance at case study research activities.

Course Resources

Recommended Resources

Students should ideally do any test design in Quantum XL or an equivalent and any qualitative interview or survey coding in MAXQDA or an equivalent.

Course Evaluation and Development

Previous students have enjoyed the research freedom and focus of the project in their vocation.

They have built their network and achieved high impact presentation and journal articles. This subject is ideal for those students thinking of higher degree by research to see if they enjoy applied research.

Staff Details

| Position | Name | Email | Location | Phone | Availability | Equitable Learning Services Contact | Primary Contact |
|----------|--------------|-------|----------|-------|--------------|-------------------------------------|-----------------|
| | Keith Joiner | | | | | No | Yes |

Other Useful Information

Academic Information

Course Evaluation and Development

One of the key priorities in the 2025 Strategy for UNSW is a drive for academic excellence in education. One of the ways of determining how well UNSW is progressing towards this goal is by listening to our own students. Students will be asked to complete the myExperience survey towards the end of each course.

Students can also provide feedback during the semester via: direct contact with the lecturer, the “On-going Student Feedback” link in Moodle, Student-Staff Liaison Committee meetings in schools, informal feedback conducted by staff, and focus groups (where applicable). Student opinions really do make a difference. Refer to the Moodle site for your course to see how the feedback from previous students has contributed to the course development.

Important note: Students are reminded that any feedback provided should be constructive and professional and that they are bound by the Student Code of Conduct.

<https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf>

Equitable Learning Services (ELS)

Students living with neurodivergent, physical and/or mental health conditions or caring for someone with these conditions may be eligible for support through the Equitable Learning Services team. Equitable Learning Services is a free and confidential service that provides practical support to ensure your mental or physical health conditions do not adversely affect

your studies.

Our team of dedicated **Equitable Learning Facilitators** (ELFs) are here to assist you through this process. We offer a number of services to make your education at UNSW easier and more equitable.

Further information about ELS for currently enrolled students can be found at: <https://www.student.unsw.edu.au/equitable-learning>

Academic Honesty and Plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to this principle of academic integrity. All students are expected to adhere to UNSW's Student Code of Conduct.

Find relevant information at: [Student Code of Conduct \(unsw.edu.au\)](https://unsw.edu.au/student-code-of-conduct)

Plagiarism undermines academic integrity and is not tolerated at UNSW. It's defined as using the words or ideas of others and passing them off as your own, and can take many forms, from deliberate cheating to accidental copying from a source without acknowledgement.

For more information, please refer to the following:

<https://student.unsw.edu.au/plagiarism>

Submission of Assessment Tasks

Special Consideration

Special Consideration is the process for assessing and addressing the impact on students of short-term events, that are beyond the control of the student, and that affect performance in a specific assessment task or tasks.

Applications for Special Consideration will be accepted in the following circumstances only:

- Where academic work has been hampered to a substantial degree by illness or other cause;
- The circumstances are unexpected and beyond the student's control;
- The circumstances could not have reasonably been anticipated, avoided or guarded against by the student; and either:
 - (i) they occurred during a critical study period and was 3 consecutive days or more

duration, or a total of 5 days within the critical study period; or

(ii) they prevented the ability to complete, attend or submit an assessment task for a specific date (e.g. final exam, in class test/quiz, in class presentation)

Applications for Special Consideration must be made as soon as practicable after the problem occurs and at the latest within three working days of the assessment or the period covered by the supporting documentation.

By sitting or submitting the assessment task the student is declaring that they are fit to do so and cannot later apply for Special Consideration (UNSW 'fit to sit or submit' requirement).

Sitting, accessing or submitting an assessment task on the scheduled assessment date, after applying for special consideration, renders the special consideration application void.

Find more information about special consideration at: <https://www.student.unsw.edu.au/special-consideration/guide>

Or apply for special consideration through your [MyUNSW portal](#).

Late Submission of assessment tasks (other than examinations)

UNSW has a standard late submission penalty of:

- 5% per day,
- capped at five days (120 hours) from the assessment deadline, after which a student cannot submit an assessment, and
- no permitted variation.

Students are expected to manage their time to meet deadlines and to request extensions as early as possible before the deadline.

Electronic submission of assessment

Except where the nature of an assessment task precludes its electronic submission, all assessments must be submitted to an electronic repository, approved by UNSW or the Faculty, for archiving and subsequent marking and analysis.

Release of final mark

All marks obtained for assessment items during the session are provisional. The final mark as

published by the university following the assessment review group meeting is the only official mark.

School-specific Information

The Learning Management System

Moodle is the Learning Management System used at UNSW Canberra. All courses have a Moodle site which will become available to students at least one week before the start of semester.

Please find all help and documentation (including Blackboard Collaborate) at the Moodle Support page.

UNSW Moodle supports the following web browsers:

- Google Chrome 50+
- Safari 10+

Internet Explorer is not recommended. Addons and Toolbars can affect any browser's performance.

Operating systems recommended are:

- Windows 10,
- Mac OSX Sierra,
- iPad iOS10

Further details:

[Moodle System Requirements](#)

[Moodle Log In](#)

If you need further assistance with Moodle:

For enrolment and login issues please contact:

IT Service Centre

Email: itservicecentre@unsw.edu.au

Phone: (02) 9385-1333

International: +61 2 9385 1333

For all other Moodle issues please contact:

External TELT Support

Email: externalteltsupport@unsw.edu.au

Phone: (02) 9385-3331

International: +61 2 938 53331

Opening hours:

Monday – Friday 7:30am – 9:30 pm

Saturday & Sunday 8:30 am – 4:30pm

Study at UNSW Canberra

Study at UNSW Canberra has lots of useful information regarding:

- Where to get help
- Administrative matters
- Getting your passwords set up
- How to log on to Moodle
- Accessing the Library and other areas.

UNSW Canberra Student Hub

For News and Notices, Student Services and Support, Campus Community, Quick Links,

Important Dates and Upcoming Events

School Contact Information

Deputy Head of School (Education): Dr Erandi Hene Kankanamge

E: e.henekankanamge@adfa.edu.au

T: 02 5114 5157

Syscom Admin Support: syscom@unsw.edu.au

T: 02 5114 5284

Syscom Admin Office: Building 15, Level 1, Room 101 (open 10am to 3pm, Mon to Fri)