ZEIT8239 Systems Engineering Project - 2024

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General Course Information

Course Code : ZEIT8239
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 *ZEIT8238 Systems Engineering Knowledge* (3 UoC), this project course involves a simulated design exercise that allows students to apply knowledge of systems engineering processes and management to real-life system development. Throughout

the exercise, students develop operational scenarios and the necessary life-cycle support for an example system. Students are required to discuss the role of systems engineering management in the development of an example system, including the role of review and audit, test and evaluation, and configuration management. Students identify the trade-off analyses (trade studies) that might be appropriate at the system level for the system in question, and finally are required to discuss the retirement aspects for the system that would need to be taken into account in early design activities.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : On successful completion, students will be able to assess strengths and weaknesses of accepted systems engineering methodologies and processes.
CLO2 : On successful completion, students will be able to develop major systems engineering plans and artefacts.
CLO3 : On successful completion, students will be able to develop appropriate systems engineering artefacts for an example project.

Course Learning Outcomes	Assessment Item
CLO1 : On successful completion, students will be able to assess strengths and weaknesses of accepted systems engineering methodologies and processes.	• Assignment 2
CLO2 : On successful completion, students will be able to develop major systems engineering plans and artefacts.	• Assignment 2
CLO3 : On successful completion, students will be able to develop appropriate systems engineering artefacts for an example project.	• Assignment 2

Learning and Teaching Technologies

Moodle - Learning Management System | Blackboard Collaborate

Learning and Teaching in this course

The course convenor will share the lecturing materials and assignment details with you.

Assessments

Assessment Structure

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

Assessment Details
Assignment 2

Assessment Overview

The two assignments provide you with an opportunity to demonstrate your ability to apply the knowledge and understanding you have gained throughout the course. The assignments require higher-order independent thinking beyond the ability to read, comprehend, and remember the information provided in the course text. They will help you draw together all the discrete areas studied in each chapter.

You are expected to undertake significant effort to complete your assignments (worth 70% of the course marks and approximately 90 hours of effort across the two assignments). Marks for the assignments will be allocated based on the effort you apply and the depth of understanding demonstrated.

Written feedback is provided against a marking/completion guide. Feedback from Assignment 2 allows for reflection and closure of the learning and teaching feedback loop.

Course Learning Outcomes

- CLO1 : On successful completion, students will be able to assess strengths and weaknesses of accepted systems engineering methodologies and processes.
- CLO2 : On successful completion, students will be able to develop major systems engineering plans and artefacts.
- CLO3 : On successful completion, students will be able to develop appropriate systems engineering artefacts for an example project.

Assessment information

The course convenor will share with you the lecturing materials and assignment details.

Assignment 1

Assessment Overview

The two assignments provide you with an opportunity to demonstrate your ability to apply the

knowledge and understanding you have gained throughout the course. The assignments require higher-order independent thinking beyond the ability to read, comprehend, and remember the information provided in the course text. They will help you draw together all the discrete areas studied in each chapter.

You are expected to undertake significant effort to complete your assignments (worth 70% of the course marks and approximately 90 hours of effort across the two assignments). Marks for the assignments will be allocated based on the effort you apply and the depth of understanding demonstrated.

Written feedback is provided against a marking/completion guide. Feedback from Assignment 1 allows for reflection and input into Assignment 1.

Detailed Assessment Description

The course convenor will share with you the lecturing materials and assignment details.

General Assessment Information

Grading Basis

Standard

Requirements to pass course

You are not required to pass any one piece of assessment; you simply need to achieve at least 50 marks out of a total 100 marks to pass this course.

An assignment completion/ marking guide is provided in the Moodle site to support development of your assignment responses. This outlines the general requirements and marking criteria, what is to be covered in each assignment and the weighting applied to each element of the assignment questions.

Course Schedule

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	HUADONG MO		R101, B20	0251145183	Huadong is usually available by email and during online consultation times via the Moodle Collaborate platform. I also welcome face-to-face discussion in my office during working hours by email appointment.	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 Equitible 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 Plagarism

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)

Plagiarism undermines academic integrity and is not tolerated at UNSW. It is 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 Leaning 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 Comminity, 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)