ZEIT8261 Project Report - Cyber Security (Full Time) - 2024

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General Course Information

Course Code : ZEIT8261
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 : 12

Useful Links

Handbook Class Timetable

Course Details & Outcomes

Course Description

This course allows students to undertake a research project worth 12UOC total. Students are required to select a research problem, conduct literature review, define the problem with necessary assumptions for formulation and representation of the problem, select and/or develop

appropriate solution approaches, collect data and prepare them for model/problem solving, conduct experiments, analyse results and write a report.

Course Aims

Students are required to select a research problem, conduct literature review, define the problem with necessary assumptions for formulation and representation of the problem, select and/or develop appropriate solution approaches, collect data and prepare them for model/problem solving, conduct experiments, analyse results and write a report.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Demonstrate critical analysis of the state of the domain, drawing on current literature in Cyber Security.
CLO2 : Demonstrate engagement with the relevant disciplinary knowledge in its interdisciplinary context.
CLO3 : Apply Cyber Security methodologies to solve specific practical problems.
CLO4 : Appropriately evaluate solutions and communicate recommendations and other relevant information.

Course Learning Outcomes	Assessment Item
CLO1 : Demonstrate critical analysis of the state of the domain, drawing on current literature in Cyber Security.	• Topic selection and literature review • Project completion and report submission
CLO2 : Demonstrate engagement with the relevant disciplinary knowledge in its interdisciplinary context.	• Topic selection and literature review • Project completion and report submission
CLO3 : Apply Cyber Security methodologies to solve specific practical problems.	• Project completion and report submission
CLO4 : Appropriately evaluate solutions and communicate recommendations and other relevant information.	• Project completion and report submission

Learning and Teaching Technologies

Moodle - Learning Management System

Learning and Teaching in this course

The process of report preparation (and presentation) provides the student with experience

regarding the methods used in academic and industrial careers, and is also used for the assessment of the capability of the student.

The University expects *320 hours of student work* for this 12 UoC course. As a guide, it would not be unreasonable for the output of the research to be publishable, at least as a conference paper.

Other Professional Outcomes

The University expects *320 hours of student work* for this 12 UoC course. As a guide, it would not be unreasonable for the output of the research to be publishable, at least as a conference paper

Additional Course Information

Enrolment Process

ZEIT8260: *Project – Cyber Security (P/T)* Course Outline

To seek approval from the Program Coordinator (course convenor) the student should take the

following steps:

1. *Select a research topic*.

It might be from students' study experience during completed master courses or work-related research

problems.

2. *Write a draft research proposal* (3-4 pages)

discussing Research *Motivation*, *Problems* (gap), Research *Objectives* and *Questions*, a brief *Literature Review* (the most relevant scholarly articles), proposed *Methodology* (discussing the proposed approach to solve the problem including the type of data you need and how you will get them, techniques, etc.), *Expected Outcome*, and a general *Study Plan* for the duration of the course (both semesters). In other words, highlighting: What do you want to do? Why it is important? How should it be done?

3. *Find a supervisor.*

Contact any UNSW Canberra academic who is an expert in the proposed topic to discuss the project and get agreement for supervision. A list of full-time academics in the school. You may

contact the course convenor if in need assistance.

4. *Contact the Program Coordinator* to seek approval

When agreements between the student and the potential supervisor are achieved, the student can apply for the research proposal assessment by submitting the agreed research proposal and name of the supervisor to the Program Coordinator.

5. *Contact SAS* via SAS@adfa.edu.au to enrol in the course.

When approved, the student and supervisor are

notified about the outcome via SAS.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Topic selection and literature review	25%	Start Date: Not Applicable Due Date: Week 4: 18 March - 22 March
Project completion and report submission	75%	Start Date: Not Applicable Due Date: Week 11 of Semester 2

Assessment Details
Topic selection and literature review

Assessment Overview

Topic selection and literature review

Course Learning Outcomes

- CLO1 : Demonstrate critical analysis of the state of the domain, drawing on current literature in Cyber Security.
- CLO2 : Demonstrate engagement with the relevant disciplinary knowledge in its interdisciplinary context.

Detailed Assessment Description

The Research Proposal should be a concise and coherent summary of the proposed research (about 10 pages or 5000 words) and should clearly:

- Articulate central issues or research questions that students intend to address
- Outline the general area of study and its significance within which the research falls

- Through the literature review discuss the current state of knowledge and any recent debates on the topic

- Investigate the "gap" in the literature and justify the novelty of the proposed research

- State research methodology to uncover a research problem

- List of references (at least 8 scholarly articles) and a detailed study plan for the remainder of the course (S1 and S2).

<u>Assignment submission Turnitin type</u>

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

Project completion and report submission

<u>Assessment Overview</u>

Define problem, formulate problem, develop methodology, validate solutions, and write report

<u>Course Learning Outcomes</u>

- CLO1 : Demonstrate critical analysis of the state of the domain, drawing on current literature in Cyber Security.
- CLO2 : Demonstrate engagement with the relevant disciplinary knowledge in its interdisciplinary context.
- CLO3 : Apply Cyber Security methodologies to solve specific practical problems.
- CLO4 : Appropriately evaluate solutions and communicate recommendations and other relevant information.

<u>Detailed Assessment Description</u>

This is a complete outcome of the research activity that should address in detail the problems / issues raised in the proposal (or its agreed revision over the course of this study). It should be presented as a scholarly output suitable for submission to a conference or journal as per supervisor(s) agreement.

This course stretches across two semesters with an EC grade provided in the first semester, updated to equate to the second semester grade at the conclusion of the course. A high standard of progress and performance will create further opportunities for Professional Doctorate or PhD programs and other collaborative projects.

For unsatisfactory performance, a FL grade will be recorded, which will impact the overall program. Please refer to the rubric at the end of this document.

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

General Assessment Information

1. Submit a mature research proposal by Week 4.

2. Submit an Interim Progress Report by Week 13 of the first semester.

3. Submit a Final Report *by* Week 11 of the second semester.

Grading Basis

Standard

Course Schedule

Attendance Requirements

Your supervisor's role is to guide your research direction in the chosen research area as a mentor. The guidance and the knowledge for research that they can convey is a most valuable resource. A panel of academics familiar with your area, may also be formed (if deemed necessary) to guide you through your project with expert advice.

Course Resources

Prescribed Resources

No prescribed resources

Recommended Resources

Lawrence A. Machi and Brenda T. McEvoy (2012). The Literature Review: Six Steps to Success, Corwin.

Guthrie, Gerard (2010). Basic Research Methods, An Entry to Social Science Research, SAGEPublications Pvt. Ltd

W.Lawrence Neuman (2013). Social research Methods: Quaitative and Quantitative Approaches, Pearson New International Edition.

Course Evaluation and Development

Students will be asked to complete the myExperience survey towards the end of this 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. Student opinions really do make a difference. Refer to the Moodle site for this 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 Policy

https://www.gs.unsw.edu.au/policy/documents/stu dentcodepolicy.pdf

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Tim Lynar		15/114	+61 2 5114 5175	by appointment	Yes	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.

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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)