

SURV6460B: MPE Thesis B

Callaghan

Semester 1 - 2024



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

OVERVIEW

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| Course Description | Students will conduct an independent research study in the form of a literature review, an experimental or theoretical investigation, an engineering design problem etc. Results are communicated in the form of a seminar, poster and final report. |
| Academic Progress Requirements | Nil |
| Requisites | Students must have successfully completed or be concurrently enrolled in SURV6460A to enrol in this course. |
| Contact Hours | Callaghan Individual Supervision Face to Face On Campus 1 hour(s) per week(s) for 13 week(s) starting Week 1 |
| Unit Weighting Workload | 10 Students are required to spend on average 120-140 hours of effort (contact and non-contact) including assessments per 10 unit course. |
| Multi-Term Sequence Advice | This course is part of a multi-term sequence. Both Part A and Part B must be completed to meet the requirements of the sequence. Part A and Part B must be completed in consecutive terms. Students must complete Part A before completing Part B. Students must complete the sequence within a twelve month period. If students complete Part A but are unable to complete Part B within the timeframe, they must re-enrol in Part A. Part A cannot be completed as a standalone course, it will only count towards your program once you have successfully completed Part B. |

COURSE OUTLINE

CONTACTS

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|---------------------------|--|
| Course Coordinator | Callaghan A/Prof In-Young Yeo In-Young.Yeo@newcastle.edu.au (02) 4921 6055 Consultation: EA106 |
| Teaching Staff | Dr. Lloyd Pilgrim Prof. Shin-Chan Han Dr. Mehdi Khaki A/Prof. In-Young Yeo |
| School Office | School of Engineering EAG02 EA Building Callaghan Seng-admin@newcastle.edu.au 9.00am-1.00pm and 2.00pm-5.00pm (Monday to Friday) |

SYLLABUS

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| Course Content | This course is a self-directed project with a member of academic staff as supervisor. |
| Course Learning Outcomes | On successful completion of this course, students will be able to: <ol style="list-style-type: none">1. Use their initiative in an area of self-selected engineering interest2. Demonstrate initiative through the work performed3. Critically analyse the work performed previously by others4. Critically assess the achievements, limitations and further requirements of their own work5. Demonstrate an appreciation of the state-of-the-art in the selected area6. Demonstrate an advanced ability to communicate the objectives and outcomes of the work |
| Course Materials | Lecture Materials: <ul style="list-style-type: none">- All materials will be provided on the course web site. |

ASSESSMENTS

This course has 2 assessments. Each assessment is described in more detail in the sections below.

| | Assessment Name | Due Date | Involvement | Weighting | Learning Outcomes |
|---|-----------------|--|-------------|-----------|-------------------|
| 1 | MPE Thesis | Due before 5 pm on Friday of Week 13, Semester 1 | Individual | 80% | 1, 2, 3, 4, 5, 6 |
| 2 | Seminar | Week 12, Semester 1 | Individual | 20% | 6 |

Late Submissions The mark for an assessment item submitted after the designated time on the due date, without an approved extension of time, will be reduced by 10% of the possible maximum mark for that assessment item for each day or part day that the assessment item is late. Note: this applies equally to week and weekend days.

Assessment 1 - MPE Thesis

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|----------------------------|---|
| Assessment Type | Written Assignment |
| Purpose | Thesis |
| Description | The project provides a chance for the student to undertake some work of their own, with the assistance where necessary of an academic supervisor. Other members of staff may also provide help if needed. The project is assessed on both its material content and its presentation. The material content involves the volume and quality of the work completed by the student. |
| Weighting | 80% |
| Due Date | Due before 5 pm on Friday of Week 13, Semester 1 |
| Submission Method | Online Specific Location Assignment to be submitted to the administration office, Discipline of Civil, Surveying and Environmental engineering (Room EA112). Submission is to include two hard copy versions, and one on a USB (non-returnable). The digital copy of your report and Turnitin report should be uploaded to Canvas by due date. |
| Assessment Criteria | The Thesis mark will be further broken down as follows. Student Intellectual contribution to the project - 50% Amount of work performed by the student - 20% Report/Thesis presentation - 10% Two paper copies of the thesis, plus a copy on USB device are required to be submitted (USB will not be returned to student). The USB should be clearly labelled and structured so that it is easy to locate and read all the information stored on the USB. The USB is to contain all the complete thesis, including scans of all files, plans, maps, field notes, images, data computer results, etc. |
| Return Method | Not Returned |
| Feedback Provided | No Feedback - . |

Assessment 2 - Seminar

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|----------------------------|--|
| Assessment Type | Presentation |
| Purpose | Oral Presentation |
| Description | Each Student is required to present a seminar on their project. The time allowed for the student presentation will be announced when the timetable of student seminars is finalised. The seminars are usually approximately 15 minutes each, and delivered to an audience of industry professionals, students and academics. |
| Weighting | 20% |
| Due Date | Week 12, Semester 1 |
| Submission Method | Specific Location Oral presentation |
| Assessment Criteria | Presentations will be assessed by a number of academic staff on the day. Presentations will be assessed on content, organisation, appropriateness for audience, clarity of presentation, |

Return Method and meeting the allocated time period.
Feedback Provided Not Returned
In Person - .

ADDITIONAL INFORMATION

Grading Scheme

This course is graded as follows:

| Range of Marks | Grade | Description |
|----------------|-----------------------|--|
| 85-100 | High Distinction (HD) | Outstanding standard indicating comprehensive knowledge and understanding of the relevant materials; demonstration of an outstanding level of academic achievement; mastery of skills*; and achievement of all assessment objectives. |
| 75-84 | Distinction (D) | Excellent standard indicating a very high level of knowledge and understanding of the relevant materials; demonstration of a very high level of academic ability; sound development of skills*; and achievement of all assessment objectives. |
| 65-74 | Credit (C) | Good standard indicating a high level of knowledge and understanding of the relevant materials; demonstration of a high level of academic achievement; reasonable development of skills*; and achievement of all learning outcomes. |
| 50-64 | Pass (P) | Satisfactory standard indicating an adequate knowledge and understanding of the relevant materials; demonstration of an adequate level of academic achievement; satisfactory development of skills*; and achievement of all learning outcomes. |
| 0-49 | Fail (FF) | Failure to satisfactorily achieve learning outcomes. If all compulsory course components are not completed the mark will be zero. A fail grade may also be awarded following disciplinary action. |

*Skills are those identified for the purposes of assessment task(s).

Communication Methods

Communication methods used in this course include:

- Canvas Course Site: Students will receive communications via the posting of content or announcements on the Canvas course site.
- Email: Students will receive communications via their student email account.
- Face to Face: Communication will be provided via face to face meetings or supervision.

Course Evaluation

Each year feedback is sought from students and other stakeholders about the courses offered in the University for the purposes of identifying areas of excellence and potential improvement.

Oral Interviews (Vivas)

As part of the evaluation process of any assessment item in this course an oral examination (viva) may be conducted. The purpose of the oral examination is to verify the authorship of the material submitted in response to the assessment task. The oral examination will be conducted in accordance with the principles set out in the [Oral Examination \(viva\) Procedure](#). In cases where the oral examination reveals the assessment item may not be the student's own work the case will be dealt with under the [Student Conduct Rule](#).

Academic Misconduct

All students are required to meet the academic integrity standards of the University. These standards reinforce the importance of integrity and honesty in an academic environment. Academic Integrity policies apply to all students of the University in all modes of study and in all locations. For the Student Academic Integrity Policy, refer to <https://policies.newcastle.edu.au/document/view-current.php?id=35>.

Adverse Circumstances

The University acknowledges the right of students to seek consideration for the impact of allowable adverse circumstances that may affect their performance in assessment item(s). Applications for special consideration due to adverse circumstances will be made using the

online Adverse Circumstances system where:

1. the assessment item is a major assessment item; or
2. the assessment item is a minor assessment item and the Course Co-ordinator has specified in the Course Outline that students may apply the online Adverse Circumstances system;
3. you are requesting a change of placement; or
4. the course has a compulsory attendance requirement.

Before applying you must refer to the Adverse Circumstance Affecting Assessment Items Procedure available at:

<https://policies.newcastle.edu.au/document/view-current.php?id=236>

Important Policy Information

The Help button in the Canvas Navigation menu contains helpful information for using the Learning Management System. Students should familiarise themselves with the policies and procedures at <https://www.newcastle.edu.au/current-students/respect-at-uni/policies-and-procedures> that support a safe and respectful environment at the University.

This course outline was approved by the Head of School on the 25/01/2024. No alteration of this course outline is permitted without Head of School approval. If a change is approved, students will be notified and an amended course outline will be provided in the same manner as the original.

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