UNSW Course Outline

SUSD0010 Managing the Sustainable Built Environment - 2024

Published on the 06 Feb 2024

General Course Information

Course Code : SUSD0010
Year : 2024
Term : Term 1
Teaching Period : T1
Is a multi-term course? : No
Faculty : Faculty of Arts, Design and Architecture
Academic Unit : School of Built Environment
Delivery Mode : Multimodal
Delivery Format : Standard
Delivery Location : Kensington
Campus : Sydney
Study Level : Postgraduate
Units of Credit : 6

Useful Links

Handbook [Class Timetable](Class%20Timetable)

Course Details & Outcomes

Course Description

Managing the Sustainable Built Environment focuses on sustainable management of the built

environment. It covers strategic asset management from a sustainability/life cycle perspective and integration of sustainability criteria into project procurement, supply chain management, space planning / utilisation and the operational management and maintenance of buildings, facilities and infrastructure. You will critically examine a range of frameworks and tools to assess, report on and manage energy, water and waste, facilitate stakeholder engagement and address emerging greenhouse and energy compliance requirements.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Apply space planning principles to improve sustainability performance.
CLO2 : Develop a business case for a facility sustainability project.
CLO3 : Develop a sustainability management plan for a facility which addresses elements of the UN's Sustainable Development Goals.
CLO4 : Develop and integrate sustainability criteria into a facility management project brief and contract.
CLO5 : Evaluate tender submissions on facility management contracts against sustainability criteria.

Course Learning Outcomes	Assessment Item
CLO1 : Apply space planning principles to improve sustainability performance.	• Sustainability Report • Sustainability Projects
CLO2 : Develop a business case for a facility sustainability project.	• Sustainability Report • Sustainability Projects
CLO3 : Develop a sustainability management plan for a facility which addresses elements of the UN's Sustainable Development Goals.	• Sustainability Report • Sustainability Projects
CLO4 : Develop and integrate sustainability criteria into a facility management project brief and contract.	• Sustainability Report • Sustainability Projects
CLO5 : Evaluate tender submissions on facility management contracts against sustainability criteria.	• Sustainability Report • Sustainability Projects

Learning and Teaching Technologies

Moodle - Learning Management System | Microsoft Teams

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Sustainability Report Assessment Format: Individual	40%	Due Date: 05/04/2024 05:00 PM
Sustainability Projects Assessment Format: Group	60%	Due Date: Group presentations in Weeks 7 and 10, individual reports submitted by 5:00 pm Friday 3 May (Week 12)

Assessment Details

Sustainability Report

Assessment Overview

You will write a research article on a proposed topic related to the sustainable management of the built environment. Grading will be done against assessment criteria accompanied by written feedback.

Course Learning Outcomes

- CLO1 : Apply space planning principles to improve sustainability performance.
- CLO2 : Develop a business case for a facility sustainability project.
- CLO3 : Develop a sustainability management plan for a facility which addresses elements of the UN's Sustainable Development Goals.
- CLO4 : Develop and integrate sustainability criteria into a facility management project brief and contract.
- CLO5 : Evaluate tender submissions on facility management contracts against sustainability criteria.

Detailed Assessment Description

Your report must consider how to integrate the UN Sustainable Development Goals into a built environment sustainability management plan.

Assessment Length

4000 words

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Sustainability Projects

Assessment Overview

In small groups, you will research and present on selected topics relating to the management and operations of buildings/facilities/infrastructure from a sustainability perspective. Grading will be done against assessment criteria. Verbal feedback is provided in class and written feedback is provided online. Individual contributions will be assessed.

Course Learning Outcomes

- CLO1 : Apply space planning principles to improve sustainability performance.
- CLO2 : Develop a business case for a facility sustainability project.
- CLO3 : Develop a sustainability management plan for a facility which addresses elements of the UN's Sustainable Development Goals.
- CLO4 : Develop and integrate sustainability criteria into a facility management project brief and contract.
- CLO5 : Evaluate tender submissions on facility management contracts against sustainability criteria.

Detailed Assessment Description

Your group will evaluate the performance of an existing UNSW building from the perspective of the Australian Green Building Council's Green Star - Performance rating tool, consider potential strategies for improvement and critically reflect on the evaluation of sustainability performance in building operations.Deliverables will consist of group presentations and reports, with individual contributions clearly identified.

Assessment Length

15 minute work in progress group presentations + 20 minute final group presentations + 3000 word individual reports

Assignment submission Turnitin type

This is not a Turnitin assignment

General Assessment Information

Grading Basis

Standard

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 12 February - 18 February	Lecture	Introduction and context: Sustainable Development Goals, corporate sustainability, ESG reporting Introduction to the building life cycle: construction, maintenance and maintainability, refurbishment and demolition
Week 2 : 19 February - 25 February	Lecture	Strategic asset management as a framework for sustainability: moving from capital investment to maintenance and operations
Week 3 : 26 February - 3 March	Lecture	Effective space planning and space utilisation, layout optimisation, flexibility / adaptability, productivity and sustainability Maintainability, renovation and adaptive reuse, resource recovery and recycling
	Tutorial	Q&A and discussion on content of W1, W2 and W3 lectures Brief presentations (no more than 10 minutes each) on your individual project proposals, these presentations are not marked, but provide the basis for discussion, critique and peer review Assignment to groups, selection of case study buildings and initial group work
Week 4 : 4 March - 10 March	Lecture	Energy, water and waste management assessment, auditing and planning
Week 5 : 11 March - 17 March	Lecture	Introduction to Green Star – Performance: Background: megatrends, net zero targets, stranded asset risk, finance seeking out opportunities to upgrade buildings, investor expectations etc How Performance is both a response and a mechanism to demonstrate compliance with the shifting built environment landscape
	Tutorial	Group work on selected buildings: preparation for Green Star – Performance evaluation
Week 6 : 18 March - 24 March	Lecture	Building services and management systems, commissioning and tuning Buildings and occupant health
Week 7 : 25 March - 31 March	Lecture	Sustainable procurement: brief writing, contract specifications, tender evaluation, supply chain management
	Tutorial	Q&A and discussion on content of W4, W6 and W7 lectures Brief presentations (no more than 10 minutes each) of work in progress on your individual projects (feedback only, not marked) 15 minute group presentations of work in progress on your group projects
Week 8 : 1 April - 7 April	Lecture	Sustainability legislation, compliance and incentives Green leasing: legal frameworks, mutual obligations and benefits
Week 9 : 8 April - 14 April	Lecture	Urban grey and green infrastructure life cycles and management Ecosystem services and nature positive
Week 10 : 15 April - 21 April	Lecture	Summary and recapitulation of the course Exploration of future trends
	Tutorial	Green Star - Performance: final group work presentations (up to 20 minutes per group) including building evaluations and potential improvement strategies, critique, reflection and discussion

Attendance Requirements

You are expected to be regular and punctual in attendance at all classes for the School of Built Environment courses in which you are enrolled. If and where individual courses have specific attendance requirements, these will be stated in the course outline.

If you do not attend, engage, or participate in scheduled class activities, including lectures, tutorials, studios, labs, etc, you run the risk of failing a course.

If illness or unexpected and beyond your control circumstances prevent you from completing a task on time, or substantially disturb your assessment performance, you should apply for [Special Consideration](), as soon as practicable, accompanied by appropriate documentation.

No special consideration will be provided if you miss out on essential course information and materials, or if you miss assessment tasks and deadlines due to unexplained absences or an unapproved lack of attendance.

You may be advised by the Course Convenor to withdraw from the course if significant learning activities are missed.

Course Resources

Course Evaluation and Development

We encourage and support students to maintain regular contact with the course convenor to provide informal feedback throughout the course. For specific issues or detailed feedback, please arrange a meeting with the course convenor via email.

In this course there is an option for students to provide anonymous feedback via the course's Moodle page, which is directly sent to the convenor. As a final step, students are invited to share their insights and experiences by completing the MyExperience survey. The feedback gathered each year is integral to the continuous enhancement and development of the course.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Paul Osmond		Room 3009, Anita B. Lawrence Centre, West Wing		Please email to arrange time	No	Yes

Other Useful Information

Academic Information

Due to evolving advice by NSW Health, students must check for updated information regarding online learning for all Arts, Design and Architecture courses this term (via Moodle or course information provided).

Please see: https://www.unsw.edu.au/arts-design-architecture/student-life/resources-support/protocols-guidelines for essential student information relating to:

- UNSW and Faculty policies and procedures;
- Student Support Services;
- Dean's List;
- review of results;
- credit transfer;
- cross-institutional study and exchange;
- examination information;
- enrolment information;
- Special Consideration in the event of illness or misadventure;
- student equity and disability;

And other essential academic information.

Academic Honesty and Plagiarism

Plagiarism is using the words or ideas of others and presenting them as your own. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement.

UNSW groups plagiarism into the following categories:

- Copying: Using the same or very similar words to the original text or idea without acknowledging the source or using quotation marks. This includes copying materials, ideas or concepts from a book, article, report or other written document, presentation, composition, artwork, design, drawing, circuitry, computer program or software, website, internet, other electronic resource, or another person's assignment without appropriate acknowledgement.
- Inappropriate paraphrasing: Changing a few words and phrases while mostly retaining the original information, structure and/or progression of ideas of the original without acknowledgement. This also applies in presentations where someone paraphrases another's ideas or words without credit and to piecing together quotes and paraphrases into a new whole, without appropriate referencing.
- Collusion: Working with others but passing off the work as a person's individual work. Collusion also includes providing your work to another student for the purpose of them plagiarising, paying another person to perform an academic task, stealing or acquiring another person's academic work and copying it, offering to complete another person's work or seeking payment for completing academic work.
- Inappropriate citation: Citing sources which have not been read, without acknowledging the "secondary" source from which knowledge of them has been obtained.
- Duplication ("self-plagiarism"): Submitting your own work, in whole or in part, where it has previously been prepared or submitted for another assessment or course at UNSW or another university.

The UNSW Academic Skills support offers resources and individual consultations. Students are also reminded that careful time management is an important part of study. One of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and proper referencing of sources in preparing all assessment items. UNSW Library has the ELISE tool available to assist you with your study at UNSW. ELISE is designed to introduce new students to studying at UNSW, but it can also be a great refresher during your study.

Completing the ELISE tutorial and quiz will enable you to:

- analyse topics, plan responses and organise research for academic writing and other assessment tasks
- effectively and efficiently find appropriate information sources and evaluate relevance to your needs
- use and manage information effectively to accomplish a specific purpose
- better manage your time
- understand your rights and responsibilities as a student at UNSW
- be aware of plagiarism, copyright, UNSW Student Code of Conduct and Acceptable Use of UNSW ICT Resources Policy
- be aware of the standards of behaviour expected of everyone in the UNSW community
- locate services and information about UNSW and UNSW Library

Use of AI for assessments

As AI applications continue to develop, and technology rapidly progresses around us, we remain committed to our values around academic integrity at UNSW. Where the use of AI tools, such as ChatGPT, has been permitted by your course convener, they must be properly credited and your submissions must be substantially your own work.

In cases where the use of AI has been prohibited, please respect this and be aware that where unauthorised use is detected, penalties will apply.

[Use of AI for assessments | UNSW Current Students](#)

Submission of Assessment Tasks

Turnitin Submission

If you encounter a problem when attempting to submit your assignment through Turnitin, please telephone External Support on 9385 3331 or email them on externalteltsupport@unsw.edu.au

Support hours are 8:00am – 10:00pm on weekdays and 9:00am – 5:00pm on weekends (365 days a year). If you are unable to submit your assignment due to a fault with Turnitin, you may apply for an extension, but you must retain your ticket number from External Support (along with any other relevant documents) to include as evidence to support your extension application. If you email External Support, you will automatically receive a ticket number, but if you telephone, you will need to specifically ask for one. Turnitin also provides updates on their system status on Twitter.

Generally, assessment tasks must be submitted electronically via either Turnitin or a Moodle assignment. In instances where this is not possible, alternative submission details will be stated on your course's Moodle site. For information on how to submit assignments online via Moodle: https://student.unsw.edu.au/how-submit-assignment-moodle

Late Submission Penalty

UNSW has a standard late submission penalty of:

- 5% per calendar day,
- for all assessments where a penalty applies,
- capped at five calendar 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 Special Consideration as early as possible before the deadline. Support with Time Management is available here.

School Contact Information

beadmin@unsw.edu.au