

GSOE9820 T1 2021 Project Briefs

Notes:

1. In this file you find two project briefs as alternatives that you can pick one.
2. This will be the project that you in a group conduct your assignment one which consists of three parts.
3. There is a quiz in Moodle under the section of Assignment one. There you can show your interest regarding project selection.
4. You have time until Thursday 13:00, Feb 18th to select one project otherwise you will be assigned one automatically.
5. The lecturing team will allocate students to groups of five (according to the declared interest of project selection)

Project 1: UNSW Makerspace #6

Procurement/ engineering/ construction/ commissioning/ testing

Maker Spaces are workshops made available for UNSW students to work on projects of their choosing. Currently there are five UNSW makerspaces in Sydney, spread across two campuses. The social and professional networks that have built up around these spaces are crucial in providing training, support, mentoring and safety oversight to students using the physical workshop spaces and facilities. Success of the makerspace program relies on all these aspects working together. The vision of the UNSW Makerspaces is 'To give every student a hands-on making experience' and 'We want to encourage students to experience and learn new technologies, and use this knowledge to tinker, prototype and fabricate their ideas.'

Design a project that will deliver a new makerspace in an existing building at UNSW. The project will go ahead if it demonstrates alignment with the UNSW 2025 Strategy and with the Makerspace vision. The scope of your project should include not only the physical refurbishment, procurement and construction work to create the makerspace itself, but also the design of the space, opportunities for stakeholder engagement and feedback during this process, any further work required to commission and operate it, and consideration of how to facilitate a vibrant student community in the new facilities.

Budget: \$800,000 (Fixed)

Duration: Vary

Scope: Optimize

Project 2: Digital Campus

Services/ change management/ software/ development

UNSW timetabling publishes a publicly accessible website of the schedule and location for all UNSW courses. At the same time, there are many events on campus created by different student societies, research groups, schools - even individuals. Sometimes the events need to find an audience; or sometimes the organisers are looking for direct participants, such as for student feedback fora, or recruiting participants for research questionnaires. These days many events take place virtually, and these are of equal value to the student experience and need higher visibility and attendance.

With the shift of much of the student experience off-campus in the last year, it has become harder and harder for members of the UNSW community to be aware of events and opportunities that they would like to participate in.

Moreover, the student experience for students who have been forced to become remote learners – sometimes even overseas – by these changes has been impacted for the worse, because they are physically separated from their peers and from their teachers, and the many activities taking place.

You are a group volunteers who are motivated to make a lasting, positive difference to these aspects of the UNSW community, in all its forms. Plan a project that will deliver a piece of software that provides a solution to some aspect of the aforementioned challenges of current UNSW student life. A UNSW based sponsor would like to spend approximately 100,000 dollars on this. You may make use of some non-paid resources (like yourselves!), if this can be successfully integrated into your plan.

The project must demonstrate alignment with the UNSW 2025 Strategy. Because students are impacted by the situation right now, the project needs to be delivered as fast as possible. Consideration needs to be given to the engagement efforts that will be required to make students and staff aware of your solution, and to encourage them to start using it. You should consider what type(s) of information you will need to access from existing university systems.

Budget: Approx. \$100,000 (vary)

Duration: Fixed 12 weeks

Scope: Optimize