



School of Civil and Environmental Engineering

Term 2, 2020

CVEN4051

THESIS B (SAGE Stream)

COURSE DETAILS

Units of Credit	6	
Contact hours	4 hours per week	
Class	Monday, 13:00 – 15:00	Online
Workshop	Monday, 15:00 – 17:00	Online
Course Coordinator	Robert Holdom	
SAGE Stream Coordinator and Lecturer	Jinling Wang email: jinling.wang@unsw.edu.au office: CE413 phone: x54203	

INFORMATION ABOUT THE COURSE

This course is the second of two parts and is undertaken after the completion of CVEN4050 Thesis A, usually in the proceeding Term. The Thesis involves formulating the designs for and solution to open-ended civil and/or environmental, or **surveying and geospatial engineering** (SAGE) problems. The problems will be drawn from industry and will be multi-disciplinary involving application of material learnt throughout the undergraduate program and will require creative thought. The course will include the preparation of relevant professional documents. Part B involves the satisfactory preparation and submission an individual thesis addressing the well-justified project plan.

In Term 2, 2020, the Thesis B theme topic in the surveying and geospatial engineering stream will be: “**Smart Sensing and Geospatial Mapping for Construction Automation**”, while any suggested topics from students may also be considered. In Term 2, 2020, special measures should be taken to follow the social distancing rules in all the activities in this course.

HANDBOOK DESCRIPTION

See link to virtual handbook:

<https://www.handbook.unsw.edu.au/undergraduate/courses/2020/CVEN4051>

OBJECTIVES

The objectives of this course - Thesis B (SAGE stream) -

of smart sensors for positioning and mapping technologies for construction automation or other engineering applications.

The aim is to involve you in management aspects of field work, for positioning, 3D reality capture, and mapping

COURSE PROGRAM

(The time slots for field work, data collection and experiments as well as any other changes will be notified in the class and at the course website).

Term 2, 2020

Week No.	Starting Date	Monday: 1:00pm-3:00pm Lecture Topics	Monday: 3:00pm-5:00pm Workshops	Assignment Due
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ASSESSMENT

Assessment for this course includes:

Assessment Items	Length	Weight	Learning outcomes (LO) assessed	Due date*	Deadline for absolute fail*	Marks returned
Literature Review Report (Individual)	6-8 pages	15%	LO: 1, 4, 5			

