



MANF9420

**OPERATIONS AND SUPPLY CHAIN
MANAGEMENT IN ENGINEERING**



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~~I. Staff Contact Details~~

Contact details and consultation times for course convenor

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Contact details and consultation times for additional lecturers/demonstrators/lab staff

Ms Sandra Cowan and Rasel Mahamud (Demonstrators)
School of Mechanical and Manufacturing Engineering, UNSW

Course details

Credit Points:

This is a 6 unit-of-credit (UoC) course, and involves <insert hours> hours per week (h/w) of face-to-face contact.

approximately 25 hours per semester for each UoC, including class contact hours, other learning activities, preparation and time spent on all assessable work. Thus, for a full-time enrolled student, the normal workload, averaged across the 16 weeks of teaching, study and examination periods, is about 37.5 hours per week.

This means that you should aim to spend about 9 h/w on this course. The additional time should be spent in making sure that you understand the lecture material, completing the set assignments, further reading, and revising for any examinations.

There is NO parallel teaching in this course.

Contact Hours

| | Day | Time | Location |
|----------------|--------|-------------|----------|
| Lectures | Monday | 18:00-20:00 | Mech102 |
| Demonstrations | Monday | 20:00-21:00 | Mech102 |

After successfully completing this course, you should be able to:

| Learning Outcome | | EA Stage 1 Competencies |
|-------------------------|---|--------------------------------|
| 1. | Analyse concepts such as the development of supply chain, integration and distribution strategies and interrelationships and value in highly responsive and flexible supply chains. | PE1.1, PE1.3, PE1.6 |
| 2. | Critically evaluate the key theories, concepts, tools and techniques in the fields of supply chain management and operations. | PE1.1, PE1.3, PE1.6 |
| 3. | Explain, analyse and discuss the concepts and methods of network planning, strategic inventory and global sourcing models and strategies. | PE1.1, PE1.3, PE1.6 |
| 4. | Further enhance problem-solving, inter-personal and critical thinking capabilities | PE3.2, PE3.3, PE3.4, PE3.6 |

3. Teaching strategies

Lectures and problem solving sessions are designed to cover the core knowledge areas of the course to help you develop range of skills towards several Graduate Attributes set in section above by creating an environment where information sharing, discussions, group work, communication, task completions will take place. Since each of you may have come from a different professional and academic background, your experiences are drawn on to illustrate various aspects of cases covered, and this helps to increase motivation and engagement. Lectures and problem solving sessions do not simply reiterate the texts, but build on the real life applications using examples and cases taken directly from industry to show how the theory is applied in practice and the details of when, where and how it should be applied.

You will be provided with a feedback and discussion on the assignments so that concepts

assignments and class exercises which will be assigned as individual and/or teamwork aim to encourage review, stimulate additional thought, promote discussion and facilitate further enhancement of concepts covered.

5. Assessment

| Assessment task | Weight | Learning outcomes assessed | Due date, time, and submission requirements |
|-----------------------------|---------------|-----------------------------------|--|
| Individual Project | 30% | 1, 2, 3, 4 | Week 5: Project released Week 8: Submission of max 500 words progress report (electronically) Week 12: Submission of final report (electronically) |
| Team based case discussions | 25% | 1, 2, 3, 4 | Throughout the semester |

Special Consideration and Supplementary Assessment

8. Academic honesty and plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW students have a responsibility to adhere to this principle of academic integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW. *Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own.*

Plagiarism is a type of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. UNSW has produced a website with a wealth of resources to support students to understand and avoid plagiarism: <https://student.unsw.edu.au/plagiarism> The Learning Centre assists students with understanding academic integrity and how not to plagiarise. They also hold workshops and can help students one-on-one.

You are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and the proper referencing of

9. Administrative Matters

You are expected to have read and be familiar with *Administrative Matters*, available on the School website: https://www.engineering.unsw.edu.au/mechanical-engineering/sites/mech/files/u41/S2-2015-Administrative-Matters_20150721.pdf

This document contains important information on student responsibilities and support, including special consideration, assessment, health and safety, and student equity and diversity.

Maruf Hasan
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