

# Course Outline

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# 1. Staff contact details

Contact details and consultation times for course convenor

Name: Prof Sami Kara

Office location: Room: 301A Ainsworth Building,

Tel: (02) 9385 5757

Email: [S.Kara@unsw.edu.au](mailto:S.Kara@unsw.edu.au)

Moodle: <https://moodle.telt.unsw.edu.au/login/index.php>

Moodle discussion should be used for all course related communication. For others, email should be used as an alternative.

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

Name: Ms Shiva Abdoli (Demonstrator)

Office Location: Room 301, Ainsworth Building

Tel: (02) 9385 6851

Email: [s.abdoli@unsw.edu.au](mailto:s.abdoli@unsw.edu.au)

Please see the course [Moodle](#).

## 2. Important links

- [Moodle](#)
- [UNSW Mechanical and Manufacturing Engineering](#)
- [Course Outlines](#)
- [Student intranet](#)
- [UNSW Mechanical and Manufacturing Engineering Facebook](#)
- [UNSW Handbook](#)

## 3. Course details

Credit Points

This is a 6 unit-of-

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.

Contact hours

	Day	Time	Location
Lectures	Tuesday	6pm-8pm	Tyree Energy Technology G16 (K-H6-G16)
Demonstrations	Tuesday	8pm – 9pm	Tyree Energy Technology G16 (K-H6-G16)

Please refer to your class timetable for the learning activities you are enrolled in and attend only those classes.

Summary and Aims of the course

This subject is primarily concerned with the efficient and effective management of materials flow through manufacturing organisations in such a way that wastage (particularly in the form of excess inventory) is reduced, materials throughput time is sped up, and customer requirements are met in a timely manner.

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

Learning Outcome		EA Stage 1 Competencies
1.	Understand the strategic implications of the Production Planning and Control (PPC)	PE1.1
2.	Understand the concepts demand management, forecasting and the link between demand management and MPS	PE1.1, PE2.2
3.	Understand the main PPC systems and appreciate the importance of capacity planning	PE1.1, PE2.2
4.	Understand the importance of controlling production activities	PE1.1, PE2.2

## 4. Teaching strategies

This course is included to give you the skills to appreciate and carry out the production planning in a manufacturing environment. The content reflects my experience as a lecturer as well as my practical experience as a production manager in manufacturing environment, and practical examples drawn from that experience are used throughout the lectures and tutorials.

Effective learning is supported when you are actively engaged in the learning process and by a climate of enquiry, and these are both an integral part of the lectures and demonstrations.

You become more engaged in the learning process if you can see the relevance of your studies to professional, disciplinary and/or personal contexts, and the relevance is shown in the lectures and assignments by way of examples drawn from industry.

Dialogue is encouraged between you, others in the class and the lecturers. Diversity of experiences is acknowledged, as some students in each class have prior industry experience. Your experiences are drawn on to illustrate various aspects, and this helps to increase motivation and engagement.

It is expected that assignments will be marked and handed back in the week following submission. You will have feedback and discussion while fresh in your mind to improve the learning experience.

## 5. Course schedule

Week	Topic	Location	Suggested Readings
1	Manufacturing Planning and Control	Tyree Energy Technology G16 (K-H6-G16)	Lecture Slides and relevant chapter in the text book
2	Demand Management and Forecasting Techniques	Tyree Energy Technology G16 (K-H6-G16)	Lecture Slides and relevant chapter in the text book
3	Sales and Operations Planning	Tyree Energy Technology G16 (K-H6-G16)	Lecture Slides and relevant chapter in the text book
4	Enterprise Resource Planning	Tyree Energy Technology G16 (K-H6-G16)	Lecture Slides and relevant chapter in the text book
5	Inventory Management	Tyree Energy Technology G16 (K-H6-G16)	Lecture Slides and relevant chapter in the text book
6	Master Production Scheduling (MPS)	Tyree Energy Technology G16 (K-H6-G16)	Lecture Slides and relevant chapter in the text book

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## 6. Assessment

### Assessment overview

Assessment	Length	Weight	Learning outcomes assessed	Assessment criteria	Due date and submission requirements	Deadline for absolute fail	Marks returned
Individual assignment 1	2000 words maximum	20%	1 and 2 maximum	Lecture material	20% m	a	t

### *Submission*

Work submitted late without an approved extension by the course coordinator or delegated authority is subject to a late penalty of 20 per cent (20%) of the maximum mark possible for that assessment item, per calendar day.

The late penalty is applied per calendar day (including weekends and public holidays) that the assessment is overdue. There is no pro-rata of the late penalty for submissions made part way through a day.

Work submitted after the 'deadline for absolute fail' is not accepted and a mark of zero will be awarded for that assessment item.



Centre prior to the examination. Calculators not bearing an “Approved” sticker will not be allowed into the examination room.

Special consideration and supplementary assessment

For details of applying for special consideration and conditions for the award of supplementary assessment, see the information on UNSW's [Special Consideration page](#).

## 7. Expected resources for students

Textbook

Vollman, T. E., Berry, W., L., Whybark, D. C., Jacobs, F. R.,

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 sources in preparing all assessment tasks.

If plagiarism is found in your work when you are in first year, your lecturer will offer you assistance to improve your academic skills. They may ask you to look at some online resources, attend the Learning Centre, or sometimes resubmit your work with the problem fixed. However more serious instances in first year, such as stealing another student's work or paying someone to do your work, may be investigated under the Student Misconduct Procedures.

Repeated plagiarism (even in first year), plagiarism after first year, or serious instances, may also be investigated

