



**UNSW**  
AUSTRALIA

Never Stand Still

Engineering

**MANF9472**

**PRODUCTION PLANNING AND  
CONTROL**

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## 1.

### Contact details and consultation times for course convenor

Name: Dr Bernard Kornfeld (Industry Lecturer)  
Tel: 0407 600 268  
Email: [z8470414@unsw.edu.au](mailto:z8470414@unsw.edu.au)

Name: Prof Sami Kara (Course convenor)  
Office Location: 301A, Ainsworth Building  
Tel: (02) 9385 5757  
Email: [S.Kara@unsw.edu.au](mailto:S.Kara@unsw.edu.au)

Consultation concerning this course is available on Monday 1300 –1800 whenever the lecturer is not otherwise engaged.

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

Name: Ms Shiva Abdoli (Demonstrator)  
Office Location: 301, Ainsworth Building  
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Email: [s.abdoli@unsw.edu.au](mailto:s.abdoli@unsw.edu.au)

## 2.

### Credit Points

This is a 6 unit-of-credit (UoC) course, and involves 3 hours per week (h/w) of face-to-face contact.

The UNSW website states “The normal workload expectations of a student are approximately 25 hours per semester for each UoC, including class contact hours, other learning activities, preparation and time spent on all assessable work.”

For a standard 24 UoC in the semester, this means 600 hours, spread over an effective 15 weeks of the semester (thirteen weeks plus stuvac plus one effective exam week), or 40 hours per week, for an average student aiming for a credit grade. Various factors, such as your own ability, your target grade, etc., will influence the time needed in your case. Some students spend much more than 40 h/w, but you should aim for not less than 40 h/w on coursework for 24 UoC.

This means that you should aim to spend not less than about 10 h/w on this course, i.e. an additional 7 h/w of your own time. This should be spent in making sure that you understand the lecture material, completing the set assignments, further reading about the course material, and revising and learning for the examination.

There will be parallel teaching of MANF4615 – Production Planning & Control

### Contact hours

	<b>Day</b>	<b>Time</b>	<b>Location</b>
<b>Lectures</b>	Thursday	18:00-21:00	Ainsworth Bld, 102

### Summary 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 speeded up, and customer requirements are met in a timely manner.

### Aims of the course

This course aims firstly to give students a grounding in the basic issues confronting production managers today, and secondly to present a set of possible solution to those iss

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 concept 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

This course is intended to give you the skills to generate designs of vessels and propellers which will fulfil the requirements of the owner as well as the regulatory authorities. The content reflects my design experience in the drawing office as well as my practical experience on fishing vessels, and practical examples drawn from that experience are used throughout the lectures and demonstrations.

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 marine 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.



Just-in-Time (JIT)	22/9/16	Ainsworth Building 102 (K-J17-102)	Pull Systems, JIT philosophy, Kanban system	N/A	Lecture Slides and relevant chapter in the text book
<b>Mid-session Break</b>	29/9/16				
Production Scheduling	6/10/16	Ainsworth Building 102 (K-J17-102)	Scheduling techniques and applications 1	N/A	Lecture Slides and relevant chapter in the text book
Production Scheduling	13/10/16	Ainsworth Building 102 (K-J17-102)	Scheduling techniques and applications 2	N/A	Lecture Slides and relevant chapter in the text book
Production Activity Control	20/10/16	Ainsworth Building 102 (K-J17-102)	PPC implementation and control techniques	N/A	

Final exam	3 hours	40%	1, 2,3, and 4	All course content from weeks 1-13	Exam period, date TBC	After release of results
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Further information about the assignments will be provided on Moodle.

## Assignments

### *Presentation*

All submissions should have a standard School cover sheet which is available from this course's Moodle page.

All submissions are expected to be neat and clearly set out. Your results are the pinnacle of all your hard work. Presenting them clearly gives the marker the best chance of understanding your method; even if the numerical results are incorrect.

### *Submission*

Late submissions will be penalised 5 marks per calendar day (including weekends). An extension may only be granted in exceptional circumstances. Where an assessment task is worth less than 20% of the total course mark and you have a compelling reason for being unable to submit your work on time, you must seek approval for an extension from the course convenor **before the due date**. Special consideration for assessment tasks of 20% or greater must be processed through [student.unsw.edu.au/special-consideration](http://student.unsw.edu.au/special-consideration).

It is always worth submitting late assessment tasks when possible. Completion of the work, even late, may be taken into account in cases of special consideration.

## Examinations

You must be available for all tests and examinations. Final examinations fofoer mID 26 >>Bkptnd be t y,,g  
s, (h.5(or)5(k)-o)-17.4(o)10.576 pe2(,)-26(g )odseven l26(g )(r)-6( a)-6(us)-wngg ek-6.6(ie)10.6e2(,)- 1(en)1



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 School [intranet](#), and the information on UNSW's [Special Consideration page](#).

**Textbook:**



- x [Assessment Matters](#) (including guidelines for assignments, exams and special consideration)
- x [Academic Honesty and Plagiarism](#)
- x [Student Equity and Disabilities Unit](#)
- x [Health and Safety](#)
- x [Student Support Services](#)

*Prof. S. Kara*  
10-7-2016

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PE1: Knowledge  
and Skill Base

**Program Intended Learning Outcomes**

PE1.1 Comprehensive, theory-based understanding of J E6