



Mechanical and Manufacturing Engineering

# Course Outline

Semester 2 201

MTRN4030

## OPTIMISATION METHODS FOR ENGINEERING SYSTEMS

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# 1. Staff contact details

Contact details and consultation times for course convenor

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My Office Hours : [T.60 T.60 T.60 T.60](#)

Contact hours

	Day	Time	Location
Lectures	Wed		

## Appendix

Learning Outcome		EA Stage 1 Competencies
1.	Identify the components of a business plan.	PE1.1, PE1.2
2.	Understand the importance of a business plan.	PE1.1, PE1.2
3.	Apply the knowledge of business plan components to develop a business plan.	PE2.1, PE2.2
4.	Develop a business plan for a specific business.	PE2.1, PE2.2

## 4. Teaching strategies

Learning objectives are defined in the syllabus. The teaching strategy is to use a combination of direct instruction and self-directed learning.

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Learning objectives are defined in the syllabus. The teaching strategy is to use a combination of direct instruction and self-directed learning.

## 5. Course schedule

Week	Topic	Location	Suggested Readings
1			

Week	Topic	Location	Suggested Readings
2	<p>Monday  : 10:00  Riverside  , 10:00  10:00</p>	<p>UNSW B  St 232  (K-E12-232)</p>	<p>L</p>
3	<p>Case  1: 10:00</p>		

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Date	Topic	Location	Demonstration/ Lab Content	Suggested Readings
Wk2	M e t h o d s	A B 203 (K-J17-203)	M e t h o d s	L e a r n i n g
Wk3	M e t h o d s	A B 203 (K-J17-203)	O p e n i n g	L e a r n i n g
Wk4	C a s e s – A1	A B 203 (K-J17-203)	U n d e r s t a n d i n g	L e a r n i n g
Wk5	C a s e s – A2	A B 203 (K-J17-203)	S p e c i f i c a t i o n s	L e a r n i n g

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Date	Topic	Location	Demonstration/ Lab Content	Suggested Readings
Wed 10	Math – 1	Ab Bg 203 (K-J17- 203)	Hgn Bp gn	Lp tb
Wed 11	Math – 2	Ab Bg 203 (K-J17- 203)	Wgn tp Ptb	Lp tb
Wed 12	Math – 3	Ab Bg 203 (K-J17- 203)	Wgn tp Ptb	Lp tb
Wed 13	Rev	Ab Bg 203 (K-J17- 203)	Rev p ie	Lp tb



## 6. Assessment

### Assessment overview

Assessment	Length	Weight	Learning outcomes assessed	Assessment
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~~Forms~~

En b c b

*Calculators*

Other Resources

If you are unable to access  
UNSW Lib

UNSW Lib [/vsa](#)  
MEd [/vsa](#)

## . Course evaluation and development

Feedback  
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## 🔗 . Academic honesty and plagiarism

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## II. Appendix A: Engineers Australia (EA) Competencies

### Stage 1 Competencies for Professional Engineers

	Program Intended Learning Outcomes
PE1: Knowledge and Skill Base	PE1.1 Communication
	PE1.2 Design
	PE1.3 Information Management
	PE1.4 Professional Practice
	PE1.5 Knowledge
	PE1.6 Understanding
PE2: Engineering Application Ability	PE2.1 Analysis
	PE2.2 Fabrication
	PE2.3 Application
	PE2.4 Application
PE3: Professional and Personal Attributes	PE3.1 Ethics
	PE3.2 Environmental Sustainability
	PE3.3 Communication
	PE3.4 Professionalism
	PE3.5 Objectivity
	PE3.6 Teamwork