



Course Outline

THINKING SKILLS
SEMESTER 2 2013

Never Stop Still

Enrich your mind with the power of the mind

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1. Staff Contact Details

Contact Hours

Lectures/Tutorials	Day	Time	Location
	Monday	2pm - 5pm (Mr Lyons 2-3pm, Mr Sproge 3- 5pm)	OMB 150 (weeks 1-13)
	Thursday	9am – 12noon (Mr Lyons 9- 10am, Dr Chowdhury 10- 12noon)	UNSW Business School (E12) 232 (weeks 1-13)

Learning Outcome		EA Stage 1 Competencies
1.	Decide on the most-appropriate form of mechanical propulsion for a new vessel which will meet the contractual requirements, and specify the transmission system and auxiliary machinery.	PE1.1 – PE1.3, PE1.5, PE2.1 – 2.3
2.	Analyse the manoeuvring characteristics of the vessel's hullform, compare that to achievable standards, and specify the steering gear required.	PE1.1 – PE1.3, PE1.5, PE2.1 – 2.3
3.	Decide on an appropriate type of specification for the construction of the vessel, draft the specification, and specify the drawings and other documentation required for procurement of the vessel.	PE1.1 – PE1.3, PE1.5, PE2.1 – 2.3
4.	Analyse the propulsion power required by way of the resistance or bollard-pull characteristics.	PE1.1 – PE1.3, PE1.5, PE2.1 – 2.3

3. Teaching strategies

Lectures in the course are designed to cover the terminology and core concepts and

4. Course schedule

The lectures in this course are given as follows:

Part A Machinery Monday 1500–1700 OMB150

All lectures in this part are given by Mr Richard Sproge.

Week	Topic
1	Selection criteria for main propulsion and other systems
2.	Steam plant
3	Diesel plant
4	Gas turbine plant, turbo and diesel-electric combinations
5	Shafting
6	Gearing and power take-offs
7	Electricity generation and distribution
8	Pumps, piping and compressors
9	Fuel-handling and treatment systems
10	Filters and purifiers
11	Heat exchangers, distillation plant and hotel services

Submission

Assignments are due on the scheduled day of the class in the week nominated on the following page, by 5pm. Those assignments for Mr Lyons are to be submitted via Moodle, while the remainder are to be submitted in hard copy to Mr Sproge or Dr Chowdhury.

Late submission of assignments attracts a penalty o

Part A Machinery

No.	Assignment	Due	Mark	Learning outcomes assessed
1	Terminology	Mon 24 th Aug	10	1
2	Gas turbine fuel and air	Mon 7 th Sept	10	1
3	Main machinery recommendation	Mon 21 st Sept	10	1
4	SOLAS requirements	Mon 12 th Oct	10	1
	TOTAL		40	

Part B Maneuverability

Special Consideration and Supplementary Assessment

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

6. Expected Resources for students

Textbooks

Notes are posted on Moodle for Parts A, B, C and D.

Part C

In addition to the notes on Moodle, the contracts section of Part C requires the following:

AGPS, Uniform Shipping Laws Code, Subsection 5L Steel Structure (available in the UNSW Library or downloadable from the AMSA website www.amsa.gov.au)

Standards Australia, AS4132.1 Design Loads, AS 4132.2 Aluminium Structure, and AS4132.3 FRP Structure are available online via the UNSW Library website, <http://info.library.unsw.edu.au/welcome.html>, under Databases and SearchFirst, for which you will need to have your Unipass number.



Additional materials provided in Moodle

This course has a site on UNSW Moodle which includes:

- copies of assignments
- previous examination papers in this course;
- some answers to the numerical questions in Parts B, C and D; and
- a discussion forum.

The discussion forum is intended for you to use with other enrolled students.

Recommended internet sites

Part A

There

Part D

There are also many websites giving lectures, papers and data on resistance prediction,

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 under the Student Misconduct Procedures. The penalties under the procedures can include a reduction in marks, failing a course or for the most serious matters

