307594

Engineering, Its Evolution, Development, Successes and Failures 100

Dr Garry Leadbeater

Engineering Foundation Year
Curtin Engineering

UNIT OUTLINE

Semester 2 2009

Curtin University of Technology

CRICOS (Perth - 00301J) (Sydney - 02637B)

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INTRODUCTION

Welcome to Curtin Engineering. The School of Engineering at Curtin aspires to be nationally and internationally recognised as a leader in Engineering education and research. We are dedicated to the enhancement of teaching and research and the pursuit of excellence and innovative applications of engineering technology as a contribution to the advancement of scientific knowledge, understanding and community relevance.

ESSENTIAL ADMINISTRATIVE INFORMATION

Unit Title	Engineering, Its Evolution, Development, Successes and Failures 100
Unit Study Package Number	307594
Unit Coordinator	Dr Garry Leadbeater
Teaching Area	Engineering Foundation Year
Credit Value	12.5
Mode(s) of study	Informational
Pre-requisites	None.
Co-Requisites	None.
Anti-requisites	None.
Additional requirements	None.
Core Unit	None.
Core Unit status	If you are taking this unit as a required (core) unit in your course of study, you may be terminated from your course of study if you fail this unit twice.
Result Type	This is a grade/mark unit.
Ancillary Fees and Charges	All fee information can be obtained through the Fees Centre. Visit http://www.fees.curtin.edu.au/index.cfm for details.
Unit Website	
Faculty or School Website	http://www.fac.eng.curtin.edu.au/home/index.cfm
Tuition Pattern	1. Hours Lecture, 1. Times Weekly 2. Hours Tutorial/Workshop – preparation of student projects

TEACHING STAFF

The lecturer or tutor for this unit and their contact details are below:

Your lecturer or tutor:	Dr Garry Leadbeater
Email:	g.leadbeater@curtin.edu.au
Phone:	9266 1088
Building:	204
Room:	319
Contact Hours:	TBA

Your lecturer or tutor:	Mr Saghi Azoulay
Email:	s.azoulay@curtin.edu.au
Phone:	
Building:	
Room:	
Contact Hours:	As necessary.

The teaching staff will assist you with your learning and any problems or difficulties you may be experiencing while undertaking this unit. They will also mark your assignments and provide feedback in relation to your progress in this unit.

UNIT COORDINATOR

Every unit also has a person who is responsible for the overall administration of that unit. This person is the Unit Coordinator. If you cannot contact the person who is teaching you (named above) or if you have further queries about this unit, you may wish to contact the Unit Coordinator for this unit. Their contact details are below:

Unit Coordinator:	Dr Garry Leadbeater
Email:	g.leadbeater@curtin.edu.au
Phone:	9266 1088
Building:	204
Room:	319
Contact Hours:	TBA

UNIT SYLLABUS

- Introduction
- Civil
- Mechanical
- Marine
- Electrical
- Chemical
- Software

LEARNING OUTCOMES

On successful completion of this unit you will be able to:

1. Understand the evolution of engineering
2. Explain, examine, analyse and understand aspects of engineering development
3. Present a cogent case for one area of development and its associated successes and/or failures.

LEARNING ACTIVITIES

1. Hours Lecture, 1. Times Weekly

2. Hours Tutorial/Workshop – preparation of student projects

STUDENT FEEDBACK

For Semester 1 and Semester 2 ***eVALUate*** is open for student feedback:

11 May - 21 June Semester 1
12 October - 22 November in Semester 2

For other study periods see
http://evaluate.curtin.edu.au/info/dates_2009.cfm

We welcome your feedback as one way to keep improving this unit. Later this semester, you will be encouraged to give unit feedback through ***eVALUate***, Curtin's online student feedback system (see http://evaluate.curtin.edu.au).

LEARNING RESOURCES

None.

TEXT BOOK

You will need to purchase the following textbook in order to complete this unit:

- None.

Recommended Texts:

You do not have to purchase the following textbooks but you may like to refer to them.

- Lancaster J. (1997). Engineering Catastrophes; Causes and Effects of Major Accidents. Cambridge, Abington Publishing.
- Rae J. and Volti R. (2001).The Engineer in History. New York. Peter Lang publishing
- Engineering Catastrophes; Causes and Effects of Major Accidents, J Lancaster, Abington Publishing
- Engineering Progress Through Trouble, R.R. Whyte, IMechE, 1975 (LTR Library Q620ENG)

ASSESSMENT DETAILS

Assessment Summary

The assessment for this unit consists of the following items.

Assessment Tasks	Week Due	Worth
Case Study (Group) Presentations (Oral)		30
Case Study (Group) Presentations (Poster)		30
Individual Project Report		30
Participation		10
TOTAL		**100%**

Assessment Task Details

Project work/case studies

Case Study (Group) Presentations

- Oral
- Poster

Portfolio report - overview 10 pages

Attendance

Supplementary and Deferred Assessments

Students granted a Supplementary or Deferred assessment will be notified via OCC. Supplementary and Deferred assessments will be held on Wednesday 17th, Thursday 18th and Friday 19th February 2010. Please also note that the failure to attend the examination/assessment on the day and time set will result in a fail for the unit. Under no circumstances will alternative arrangements be made to suit individuals.

Referencing Style

Curtin Engineering advises students that Curtin University supports the "Chicago Referencing Style" for written work and oral presentations. For a guide to this style please see

http://library.curtin.edu.au/referencing/index.html

However, students are permitted to use other recognised styles that appear in the Engineering literature. Note also that individual lecturers can stipulate that a particular style is used when it best matches the type of work in the assessment of the particular unit.

Awarding of Grades

To pass this unit you must:

- Achieve a grade/mark greater than or equal to 5/50.

STUDENTS' RIGHTS AND RESPONSIBILITIES

It is the responsibility of every student to be aware of all relevant legislation, policies and procedures relating to their rights and responsibilities as a student. These include:

- the Student Charter,
- the University's Guiding Ethical Principles,
- the University's policy and statements on plagiarism and academic integrity,
- copyright principles and responsibilities,
- the University's policies on appropriate use of software and computer facilities,
- students' responsibility to check enrolment,
- deadlines, appeals, and grievance resolution,
- student feedback,
- other policies and procedures
- electronic communication with students

See www.students.curtin.edu.au/administration/responsibilities.cfm for comprehensive information on all of the above.

ADDITIONAL INFORMATION

Telephone Contacts:

If you have a query relating to administrative matters such as:-

- requests for deferment of study
- difficulties with accessing online study materials
- obtaining assessment results

please contact your Unit Coordinator:

Unit Coordinator:	Dr Garry Leadbeater
Email:	g.leadbeater@curtin.edu.au
Phone:	9266 1088
Building:	204
Room:	319
Contact Hours:	TBA

UNIT STUDY CALENDAR

If you have a printed copy of this document, you may like to tear off this final page and keep the Study Calendar handy as you work through the unit.

Semester 2 2009

WK						
1.						
2.						
3.						
4.						
Tuition Free Week						
5.						
6.						
7.						
8.						
Tuition Free Week						
9.						
10.						
11.						
12.						
Study Week						
Examinations						
Examinations						

END OF UNIT OUTLINE