PHIL3910 - Technology and Human Values
Course Outline

Semester Semester 1 - 2009
Unit Weighting 10
Teaching Methods Lecture and Tutorial

Brief Course Description
Teaches the nature and systematic analysis of normative design decisions, in particular in engineering, in the context of a systems dynamic approach to modelling. It sets that study in a larger framework of analysis of Western commercial, political and social systems and their functioning, and of the professional ethics that flow from that.

Contact Hours
Lecture for 2 Hours per Week for the Full Term
Tutorial for 2 Hours per Fortnight for 6 Weeks
One tutorial for organisation in week two (for all students) followed by five two-hour fortnightly tutorials, PLUS a special session in week 7.

For particular dates and times refer to course guide available on Blackboard.

Learning Materials/Texts:
Lecture Notes: available from the Blackboard
J. Porritt, 2005, Capitalism as if the World Matters, London: Earthscan

Course Outline Issued and Correct as at: Week 1, Semester 1 - 2009
CTS Download Date: 19/02/09
Supplementary Readings:

In addition to the required text, supplementary recommended reading is provided on short loans for each segment of the course. Most are available via the Internet at Short Loans Online (http://library.newcastle.edu.au/press SHORT LOANS). The correspondences between readings and topics are listed on the Lecture abstracts posted on Blackboard. Whilst you are not required to read this material, many students will find it helpful to clarify points made in lectures, as well as for the preparation of assignments and exams. Full references follow:


Course Objectives
(1) to give students a knowledge of the nature and basic principles of normative design decisions, in particular in engineering, in the context of a systems dynamic approach to modelling.

(2) to impart to students the skills required for them to be able to engage in critical assessment of design practice and in design problem solving that meets larger societal expectations as well as those of good engineering design.

(3) to enable students to effectively communicate their understanding and to interact effectively so as to problem solve with diverse communal groups.

(4) to provide students a critical appreciation of the larger framework of Western commercial, political and social systems within which engineering practice operates, and of the professional ethics that flow from that.

Course Content
The course covers the nature of norms and their application, basic principles of dynamic systems and of the choice of systems models and analyses and their normative dimensions (e.g. complex system dynamics and its implications on system design as well as societal systems), analyses of major societal systems and their normative character and impacts, and an introduction to principled professional ethics.
### Assessment Items

<table>
<thead>
<tr>
<th>Assment Items</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essays / Written Assignments</td>
<td>Tutorial Assignment, (1500 words), 20%, is to help students start on normative, not just factual, analysis of engineering design problems, and will also sharpen critical and communication skills.</td>
</tr>
<tr>
<td>Essays / Written Assignments</td>
<td>Group Project (3,000-4,000 words), 20%, provides opportunity to develop and extended normative design analysis and consists of 4-6 students getting together to produce a coherent account on one topic. This will demonstrate the application of both knowledge and skills, and provides experience in performing multi-tasking group work.</td>
</tr>
<tr>
<td>Examination: Formal</td>
<td>Examination, (2 hours), 50%, evaluates the depth and systematicity of student understanding of basic principles and how to apply them.</td>
</tr>
<tr>
<td>Group/tutorial participation and contribution</td>
<td>Tutorial Participation, 10%, allows assessment and feedback on developing knowledge of subject and on developing critical capacity to analyse and argue issues in the subject. Attendance will be taken and tutors will assess contribution to discussion.</td>
</tr>
</tbody>
</table>

### Assumed Knowledge

60 units of successfully completed subjects

### Callaghan Campus Timetable

**PHIL3910 TECHNOLOGY AND HUMAN VALUES**

With PHIL6910. Enquiries: School of Humanities and Social Science

**Semester 1 - 2009**

<table>
<thead>
<tr>
<th>Tutorial</th>
<th>Day</th>
<th>Time</th>
<th>Class</th>
<th>Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wednesday</td>
<td>11:00 - 13:00</td>
<td>[ES209]</td>
<td>3, 5, 9, 11 &amp; 13 only. Elec. &amp; Comp. Students.</td>
</tr>
<tr>
<td>or</td>
<td>Wednesday</td>
<td>11:00 - 13:00</td>
<td>[ES209]</td>
<td>4, 6, 8, 10 &amp; 12 only. Elec. &amp; Comp. Students.</td>
</tr>
<tr>
<td>or</td>
<td>Wednesday</td>
<td>14:00 - 16:00</td>
<td>[EF20]</td>
<td>3, 5, 9, 11 &amp; 13 only. Environ &amp; Civil Studen</td>
</tr>
<tr>
<td>or</td>
<td>Wednesday</td>
<td>14:00 - 16:00</td>
<td>[EF20]</td>
<td>4, 6, 8, 10 &amp; 12 only. Telecom. Software &amp; Civil</td>
</tr>
<tr>
<td>or</td>
<td>Wednesday</td>
<td>11:00 - 13:00</td>
<td>[EF20]</td>
<td>3, 5, 9, 11 &amp; 13 only. Civil &amp; Chem Engg Stud</td>
</tr>
<tr>
<td>or</td>
<td>Wednesday</td>
<td>11:00 - 13:00</td>
<td>[EF20]</td>
<td>4, 6, 8, 10 &amp; 12 only. Civil Eng Students</td>
</tr>
<tr>
<td>or</td>
<td>Thursday</td>
<td>14:00 - 16:00</td>
<td>[ES209]</td>
<td>3, 5, 9, 11 &amp; 13 only. Civil Engg Students.</td>
</tr>
<tr>
<td>or</td>
<td>Thursday</td>
<td>14:00 - 16:00</td>
<td>[ES209]</td>
<td>4, 6, 8, 10 &amp; 12 only. Civil Eng Students.</td>
</tr>
<tr>
<td>or</td>
<td>Wednesday</td>
<td>14:00 - 16:00</td>
<td>[ES209]</td>
<td>3, 5, 9, 11 &amp; 13 only. Mech Engg &amp; Mechatronic</td>
</tr>
<tr>
<td>or</td>
<td>Wednesday</td>
<td>14:00 - 16:00</td>
<td>[ES206]</td>
<td>4, 6, 8, 10 &amp; 12 only. Mech Engg &amp; Mechatronic S</td>
</tr>
<tr>
<td>or</td>
<td>Wednesday</td>
<td>9:00 - 11:00</td>
<td>[ES209]</td>
<td>3, 5, 9, 11</td>
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</tbody>
</table>
and Tutorial Wednesday 9:00 - 11:00 [ES209] Weeks 2 & 7 only
or Wednesday 11:00 - 13:00 [ES305] Weeks 2 & 7 only
or Wednesday 14:00 - 16:00 [SRLT1] Weeks 2 & 7 only
and Lecture Wednesday 18:00 - 20:00 [BASDEN] Weeks 2 & 7 only

IMPORTANT UNIVERSITY INFORMATION

ACADEMIC INTEGRITY

Academic integrity, honesty, and a respect for knowledge, truth and ethical practices are fundamental to the business of the University. These principles are at the core of all academic endeavour in teaching, learning and research. Dishonest practices contravene academic values, compromise the integrity of research and devalue the quality of learning. To preserve the quality of learning for the individual and others, the University may impose severe sanctions on activities that undermine academic integrity. There are two major categories of academic dishonesty:

Academic fraud is a form of academic dishonesty that involves making a false representation to gain an unjust advantage. Without limiting the generality of this definition, it can include:

a) falsification of data;

b) using a substitute person to undertake, in full or part, an examination or other assessment item;

c) reusing one's own work, or part thereof, that has been submitted previously and counted towards another course (without permission);

d) making contact or colluding with another person, contrary to instructions, during an examination or other assessment item;

e) bringing material or device(s) into an examination or other assessment item other than such as may be specified for that assessment item; and

f) making use of computer software or other material and device(s) during an examination or other assessment item other than such as may be specified for that assessment item.

g) contract cheating or having another writer compete for tender to produce an essay or assignment and then submitting the work as one's own.

Plagiarism is the presentation of the thoughts or works of another as one's own. University policy prohibits students plagiarising any material under any circumstances. Without limiting the generality of this definition, it may include:

a) copying or paraphrasing material from any source without due acknowledgment;

b) using another person's ideas without due acknowledgment;

c) collusion or working with others without permission, and presenting the resulting work as though it were completed independently.

Turnitin is an electronic text matching system. During assessing any assessment item the University may -

- Reproduce this assessment item and provide a copy to another member of the University; and/or

- Communicate a copy of this assessment item to a text matching service (which may then retain a copy of the item on its database for the purpose of future checking).

- Submit the assessment item to other forms of plagiarism checking.
RE-MARKS AND MODERATIONS

Students can access the University’s policy at: http://www.newcastle.edu.au/policylibrary/000769.html

MARKS AND GRADES RELEASED DURING TERM

All marks and grades released during term are indicative only until formally approved by the Head of School.

SPECIAL CIRCUMSTANCES AFFECTING ASSESSMENT ITEMS

Extension of Time for Assessment Items, Deferred Assessment and Special Consideration for Assessment Items or Formal Written Examinations items must be submitted by the due date in the Course Outline unless the Course Coordinator approves an extension. Unapproved late submissions will be penalised in line with the University policy specified in Late Penalty above.

Requests for Extensions of Time must be lodged no later than the due date of the item. This applies to students:

- applying for an extension of time for submission of an assessment item on the basis of medical, compassionate, hardship/trauma or unavoidable commitment; or

- whose attendance at or performance in an assessment item or formal written examination has been or will be affected by medical, compassionate, hardship/trauma or unavoidable commitment.

Students must report the circumstances, with supporting documentation, as outlined in the Special Circumstances Affecting Assessment Items Procedure at: http://www.newcastle.edu.au/policylibrary/000641.html

Note: different procedures apply for minor and major assessment tasks.

Students should be aware of the following important deadlines:

- Special Consideration Requests must be lodged no later than 3 working days after the due date of submission or examination.

- Rescheduling Exam requests must be received no later than 10 working days prior the first date of the examination period.

Late applications may not be accepted.

STUDENTS WITH A DISABILITY OR CHRONIC ILLNESS

University is committed to providing a range of support services for students with a disability or chronic illness. If you have a disability or chronic illness which you feel may impact on your studies please feel free to discuss your support needs with your lecturer or course coordinator.

Disability Support may also be provided by the Student Support Service (Disability). Students must be registered to receive this type of support. To register contact the Disability Liaison Officer on 02 4921 5766, email at: student-disability@newcastle.edu.au . As some forms of support can take a few weeks to implement it is extremely important that you discuss your needs with your lecturer, course coordinator or Student Support Service staff at the beginning of each semester. For more information on confidentiality and documentation visit the Student Support Service (Disability) website: www.newcastle.edu.au/services/disability .

CHANGING YOUR ENROLMENT

Students enrolled after the census dates listed below are liable for the full cost of their student contribution or fees for that term.

<table>
<thead>
<tr>
<th>For Semester 1 courses: 31 March 2009</th>
<th>Block Census Dates</th>
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</thead>
<tbody>
<tr>
<td>For Semester 2 courses: 31 August 2009</td>
<td>Block 1: 16 January 2009</td>
</tr>
<tr>
<td>For Trimester 1 courses: 18 February 2009</td>
<td>Block 2: 13 March 2009</td>
</tr>
<tr>
<td>For Trimester 2 courses: 9 June 2009</td>
<td>Block 3: 15 May 2009</td>
</tr>
<tr>
<td>For Trimester 2 courses: 9 June 2009</td>
<td>Block 4: 10 July 2009</td>
</tr>
<tr>
<td>For Trimester 3 courses: 22 September 2009</td>
<td>Block 5: 11 September 2009</td>
</tr>
</tbody>
</table>
Singapore Census Dates
For Trimester 1 Singapore courses: 27 January 2009
For Trimester 2 Singapore courses: 26 May 2009
For Trimester 3 Singapore courses: 22 September 2009

Block 6: 16 November 2009

Students may withdraw from a course without academic penalty on or before the last day of term. Any withdrawal from a course after the last day of term will result in a fail grade.

**Students cannot enrol in a new course after the second week of term**, except under exceptional circumstances. Any application to add a course after the second week of term must be on the appropriate form, and should be discussed with staff in the Student Hubs or with your Program Executive at PSB if you are a Singapore student.

To check or change your enrolment online go to myHub: [https://myhub.newcastle.edu.au](https://myhub.newcastle.edu.au)

**STUDENT INFORMATION & CONTACTS**

Various services are offered by the Student Support Unit:

The Student Hubs are a one-stop shop for the delivery of student related services and are the first point of contact for students studying in Australia. Student Hubs are located at:

**Callaghan Campus**
Shortland Hub: Level 3, Shortland Building
Hunter Hub: Level 2, Student Services Centre

**City Precinct**
City Hub & Information Common, University House

**Central Coast Campus (Ourimbah)**
Student Hub: Opposite the Main Cafeteria

**Port Macquarie students**
contact your program officer or
[EnquiryCentre@newcastle.edu.au](mailto:EnquiryCentre@newcastle.edu.au)
Phone 4921 5000

**Singapore students**
contact your PSB Program Executive

**OTHER CONTACT INFORMATION**

**Faculty Websites**

**Rules Governing Undergraduate Academic Awards**

**Rules Governing Postgraduate Academic Awards**

**Rules Governing Professional Doctorate Awards**

**General enquiries**
**Callaghan, City and Port Macquarie**
Phone: 02 4921 5000
Email: [EnquiryCentre@newcastle.edu.au](mailto:EnquiryCentre@newcastle.edu.au)

**Ourimbah**
Phone: 02 4348 4030
Email: [EnquiryCentre@newcastle.edu.au](mailto:EnquiryCentre@newcastle.edu.au)

**The Dean of Students**
Resolution Precinct
Phone: 02 4921 5806;
Fax: 02 4921 7151
Email: [resolutionprecinct@newcastle.edu.au](mailto:resolutionprecinct@newcastle.edu.au)

**Deputy Dean of Students (Ourimbah)**
Phone: 02 4348 4123;
Fax: 02 4348 4145
Email: [resolutionprecinct@newcastle.edu.au](mailto:resolutionprecinct@newcastle.edu.au)

This course outline will not be altered after the second week of the term except under extenuating circumstances with Head of School approval. Students will be notified in advance of the change.

--------------------------------------------------------
End of CTS Entry
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Mandatory Program Component

This course is a mandatory program component. Refer - http://www.newcastle.edu.au/policylibrary:000647.html (section 2).

Online Tutorial Registration:

Students are required to enrol in the Lecture and a specific Tutorial time for this course via the Online Registration system. Refer - http://studinfo1.newcastle.edu.au/rego/stud_choose_login.cfm

NB: Registrations close at the end of week 2 of semester.

Studentmail and Blackboard: Refer - www.blackboard.newcastle.edu.au/

This course uses Blackboard and studentmail to contact students, so you are advised to keep your email accounts within the quota to ensure you receive essential messages. To receive an expedited response to queries, post questions on the Blackboard discussion forum if there is one, or if emailing staff directly use the course code in the subject line of your email. Students are advised to check their studentmail and the course Blackboard site on a weekly basis.

Important Additional Information

Details about the following topics are available on your course Blackboard site (where relevant). Refer - www.blackboard.newcastle.edu.au/

- Written Assignment Presentation and Submission Details
- Online copy submission to Turnitin
- Penalties for Late Assignments
- Special Circumstances
- No Assignment Re-submission
- Re-marks & Moderations
- Return of Assignments
- Preferred Referencing Style
- Student Representatives
- Student Communication
- Essential Online Information for Students