



The University of Southern Queensland

## Course specification

The current and official versions of the course specifications are available on the web at <http://www.usq.edu.au/coursespecification/current>.  
Please consult the web for updates that may occur during the year.

### Description: Technological Impact and its Management

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
ENG	8101	86883	1, 2009	ONC	1.00	Toowoomba

<b>Academic group:</b>	FOENS
<b>Academic org:</b>	FOENSV
<b>Student contribution band:</b>	2
<b>ASCED code:</b>	039999

### STAFFING

Examiner: Bob Fulcher

Moderator: Ron Ayers

### RATIONALE

The world of today is one in which there is dynamic change in the creation and development of technology. It is necessary for managers of technology to understand the impact of technological development and the ways in which it can affect the society in which we live and the controls necessary to achieve a positive impact on mankind.

### SYNOPSIS

This course seeks to review current technological development and to evaluate its impact on the world on we live in. The relationship between modern society and technological development is examined and the role of technological development on wealth creation and business is presented. The overall social need to manage such development is assessed as well as Technology creation, transfer and exploitation.

### OBJECTIVES

The course objectives define the student learning outcomes for a course. The assessment item(s) that may be used to assess student achievement of an objective are shown in parenthesis. On completion of this course, students should be able to:

1. understand the role of technology in modern society; (Assignment 1 & Examination)
2. understand the process of innovation and its social context; (Assignment 1 & Examination)
3. assess the impact of technological development on society and the physical environment; (Assignment 1 & Examination)
4. assess the relationship between wealth creation and technological development; (Assignment 1 & Examination)
5. explain the process by which society manages technological development and the role managers of technology play in this process. (Assignment 1 & Examination)

## TOPICS

	Description	Weighting (%)
1.	Science, Technology and Progress	10.00
2.	Technology and Society	20.00
3.	Economic Development and Technology	10.00
4.	Technology and The Environment	15.00
5.	Management of Technology	10.00
6.	Technological Innovation	15.00
7.	Technology and Business	20.00

## TEXT and MATERIALS required to be PURCHASED or ACCESSED

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

*ENG8101 Technological impact and its management: external study package*, University of Southern Queensland, Toowoomba.

Students must have Internet access.  
(Students must have Internet access.)

Khalil, T 2000, *Management of technology: the key to competitiveness and wealth creation*, McGraw-Hill,

## REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

Various web sites will be cited in the more dynamic components of this course.

Beder, S 1996, *The nature of sustainable development*, 2nd edn, Scribe Publications, Newham, Victoria.

Beder, S 1998, *The new engineer*, MacMillan Education, Australia.

Dorf, RC 2001, *Technology, humans and society: towards a sustainable world*, Academic Press, San Diego.

Johnston, S, Gostelow, P & Jones, E 1999, *Engineering and society: an Australian perspective*, 2nd edn, Harper Educational, Pymble.

## STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Assessments	42.00
Directed Study	24.00
Examinations	2.00
Lectures	26.00
Private Study	71.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ASSIGNMENT 1	500.00	50.00	27 Apr 2009
2 HOUR CLOSED EXAMINATION	500.00	50.00	END S1 (see note 1)

### NOTES

1. Student Administration will advise students of the dates of their examinations during the semester.

## IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:  
It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.
- 2 Requirements for students to complete each assessment item satisfactorily:  
To satisfactorily complete an assessment item a student must achieve at least 50% of the marks or a grade of at least C-. Students do not have to satisfactorily complete each assessment item to be awarded a passing grade in this course. Refer to Statement 4 below for the requirements to receive a passing grade in this course.
- 3 Penalties for late submission of required work:  
If students submit assignments after the due date without extenuating circumstances then a penalty of 5% of the assigned mark may apply for each working day late up to a maximum of ten working days at which time a mark of zero can be recorded for that assignment.
- 4 Requirements for student to be awarded a passing grade in the course:  
To be assured of receiving a passing grade in a course a student must obtain at least 50% of the total weighted marks for the course.
- 5 Method used to combine assessment results to attain final grade:  
The final grades for students will be assigned on the basis of the weighted aggregate of the marks (or grades) obtained for each of the summative assessment items in the course.
- 6 Examination information:  
In a Closed Examination, candidates are allowed to bring only writing and drawing instruments into the examination.

- 7 Examination period when Deferred/Supplementary examinations will be held:  
Any Deferred or Supplementary examinations for this course will be held during the examination period at the end of the semester of the next offering of this course.
- 8 University Regulations:  
Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL <http://www.usq.edu.au/corporateservices/calendar/part5.htm> or in the current USQ Handbook.

## **ASSESSMENT NOTES**

- 1 The due date for an assignment is the date by which a student must despatch the assignment to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the Examiner.
- 2 Students must retain a copy of each item submitted for assessment. This must be produced within five days if required by the Examiner.
- 3 In accordance with University's Assignment Extension Policy (Regulation 5.6.1), the examiner of a course may grant an extension of the due date of an assignment in extenuating circumstances.
- 4 The Faculty will normally only accept assessments that have been written, typed or printed on paper-based media.
- 5 The Faculty will NOT accept submission of assignments by facsimile.
- 6 Students who do not have regular access to postal services or who are otherwise disadvantaged by these regulations may be given special consideration. They should contact the examiner of the course to negotiate such special arrangements.
- 7 In the event that a due date for an assignment falls on a local public holiday in their area, such as a Show holiday, the due date for the assignment will be the next day. Students are to note on the assignment cover the date of the public holiday for the Examiner's convenience.

## **OTHER REQUIREMENTS**

- 1 Students will require access to e-mail and internet access to USQConnect for this course.
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