TE WHARE WĀNANGA O TE ŪPOKO O TE IKA A MĀUI



School Of Economics and Finance

ECON 422 INDUSTRIAL ORGANISATION

Trimester 1, 2016

COURSE OUTLINE

Prescription

This course strives to explain the puzzling behaviour of firms. It examines topics like durability, product differentiation, price discrimination, vertical control, static and dynamic imperfect competition, pre-commitment in strategic interaction, limit pricing, and product innovation.

Course Learning Objectives

Course Objectives: by the end of this course students should be able to		
C1	Comprehend the ideas and methodology of industrial organization	
C2	Analyze models of product differentiation and product choice	
C3	Understand the theory of strategic investments	
C4	Get insight into the topics of collusion and price wars	
C5	Explain the consequences of network externalities and switching	
	costs	
C6	Analyze models of competition with imperfect information	
C7	Discuss the effect of innovation on entry, competition and	
	government policies	
C8	Identify the reasons for price discrimination and bundling	
C9	Understand the implications of time consistency for market power	
C10	Solve basic auction models	

Course Content

Lecture 1: Introduction. Quantity games and price games; homogeneous and heterogeneous products; the role of commitment; strategic complements versus strategic substitutes.

Lecture 2: Differentiation. Horizontal differentiation; linear city models; preference-for-variety models; vertical differentiation; welfare implications.

Lecture 3: Product Choice. Location choice with regulated prices; models with unregulated prices: linear and quadratic transportation costs; circular city models.

Lecture 4: Strategic Investment. Taxonomy of business practices; deterrence of entry; accommodation of entry; application: the Dixit – Spence model of entry deterrence.

Lecture 5: Collusion and Price Wars. Facilitating practices; collusion and dynamic competition; price wars, collusion with uncertain demand

Lecture 6: Network externalities and switching costs. Network externalities and compatibility; switching costs and clienteles; Varian's model of sales

Lecture 7: Competition with Imperfect Information. Accommodation and tacit collusion; limit pricing and the entry model of Milgrom and Roberts: characterization of the separating and the pooling equilibria.

Lecture 8: Innovation. The value of innovation; patent races; innovation and entry; optimal patent policies.

Lecture 9: Price discrimination and Bundling. Two part tariffs; second degree price discrimination; commodity bundling: mixed bundling and the leverage theory.

Lecture 10: Dynamic Consistency and Market Power. Durable goods monopolies; perfect rational expectation equilibria; habit formation

Lecture 11: Auctions. First price sealed bid auctions; second price auctions; the revenue equivalence theorem; optimal auctions; the winner's curse.

Lecture 12: Review.

Trimester Dates

Teaching Period: Monday 29th February – Friday 3rd June

Study Period: Monday 6th June – Thursday 9th June Examination Period: Friday 10th June – Wednesday 29th June (inclusive)

Withdrawal from Course

- 1. Your fees will be refunded if you withdraw from this course on or before Friday 11th March 2016.
- 2. The standard last date for withdrawal from this course is Friday 13th May 2016. After this date, students forced to withdraw by circumstances beyond their control must apply for permission on an '*Application for Associate Dean's Permission to Withdraw Late'* including supporting documentation. The application form is available from either of the Faculty's Student Customer Service Desks or <u>online</u>.

Names and Contact Details

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Class Times and Room Numbers

Lectures: Wednesday 12:40 – 14:30 in RWW128.

Course Delivery

The course will be delivered in weekly two-hour lectures.

Office: Email:

Phone:

Readings

The main text is: Jean Tirole, The Theory of Industrial Organization, MIT Press, 1988

Mandatory course requirements

In addition to obtaining an overall course mark of 50 or better, students must submit at least one assignment and take the final exam.

If you believe that exceptional circumstances may prevent you from meeting the mandatory course requirements, contact the Course Coordinator for advice as soon as possible.

If you cannot complete an assignment or sit a test or examination, refer to www.victoria.ac.nz/home/study/exams-and-assessments/aegrotat

Expected Workload

Two hours of lectures and four hours of preparation per week during the trimester; five hours for each of the assignments; 20 hours of preparation during the study week

Assessment

The Assessment Handbook will apply to all VUW courses: see http://www.victoria.ac.nz/documents/policy/staff-policy/assessment-handbook.pdf.

The final grade in this course will be calculated using the results of two assignments and a final examination.

Assignment 1: Due at end of week 6.	Weight: 20%
Assignment 2: Due at end of week 12.	Weight: 20%
Final exam: Three hours, date to be advised.	Weight: 60%

Examinations

Students who enrol in courses with examinations are obliged to attend an examination at the University at any time during the formal examination period. The final examination for this course will be scheduled at some time during the following period:

Friday 10th June – Wednesday 29th June (inclusive)

Penalties

Late assignments will not be marked.

Use of Turnitin

Student work provided for assessment in this course may be checked for academic integrity by the electronic search engine <u>http://www.turnitin.com</u>. Turnitin is an on-line plagiarism prevention tool which compares submitted work with a very large database of existing material. At the discretion of the Head of School, handwritten work may be copy-typed by the School and submitted to Turnitin. A copy of submitted materials will be retained on behalf of the University for detection of future plagiarism, but access to the full text of submissions will not be made available to any other party.

Materials and Equipment

Detailed lecture notes will be posted on blackboard. The students are allowed to use electronic calculators in tests.

Student feedback

Student feedback on University courses may be found at www.cad.vuw.ac.nz/feedback/feedback display.php.

Class Representative

A class representative will be elected in the first class, and that person's name and contact details made available to VUWSA, the course coordinator and the class. The class representative provides a communication channel to liaise with the course coordinator on behalf of students.

Communication of Additional Information

Additional information will be posted on Blackboard.

Link to general information

For general information about course-related matters, go to <u>http://www.victoria.ac.nz/vbs/studenthelp/general-course-information</u>

Note to Students

Your assessed work may also be used for quality assurance purposes, such as to assess the level of achievement of learning objectives as required for accreditation and academic audit. The findings may be used to inform changes aimed at improving the quality of VBS programmes. All material used for such processes will be treated as confidential, and the outcome will not affect your grade for the course.
