

UE10 Algebra refresher

Course title - Intitulé du cours	UE10 Algebra refresher
Level / Semester - Niveau /semestre	M2 / S1
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	BLANCHET ADRIEN
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	15
TA Hours - Volume horaire TD	
TP Hours - Volume horaire TP	0
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	Anglais

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

email: Adrien.Blanchet@ut-capitole.fr

office: MF213

office hours: On Tuesday 2 PM - 3:30

Course's Objectives - Objectifs du cours :

This Algebra refresher course is dedicated to an overview of all the notions of Algebra which are requested to attend the Master in TSE. These notions are supposed to be known by the students. The lectures will consist in a quick reminder with only a few proof rather than a proper lecture. References to classical books will be provided during the lectures. Exercises will be provided to the students together with a few corrections in order to review the different methods which will be used in the sequel of the year.

Chapter 1: vector spaces

sub-vector spaces, basis, change of basis, kernel, image, rank-nullity theorem, linear applications with applications to the resolution of linear systems

Chapter 2: reduction of endomorphism

determinant, diagonalisation, Jordan's trigonalisation, Cayley-Hamilton's theorem, application to the power and exponential of a matrix

Chapter 3: Euclidean spaces

quadratic form, Gauss' reduction, scalar product, Cauchy-Schwarz inequality, orthogonal basis, orthogonal group

Chapter 4: Projection

projection on a sub-vector space, orthogonal projection, distance to a sub-vector space, separation theorem

Prerequisites - Pré requis :

All the notions stated above.

Practical information about the sessions - Modalités pratiques de gestion du cours :

No laptop, no tablets, no phone.

The students are supposed to be on time and to come regularly.

The above outline is the planned lecture but it can easily be changed to fit the students' requests. This will be discussed in class

Grading system - Modalités d'évaluation :

No grade.

Bibliography/references - Bibliographie/références :

Any lecture of linear algebra.

Contrats de distribution

Course title - Intitulé du cours	Contrats de distribution
Level / Semester - Niveau /semestre	M2 / Semestre 1
School - Composante	TSE
Teacher - Enseignant responsable	JAZOTTES_GERARD
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	12
TA Hours - Volume horaire TD	
TP Hours - Volume horaire TP	
Course Language - Langue du cours	Français
TA and/or TP Language - Langue des TD et/ou TP	

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

gerard.jazottes@ut-capitole.fr MC 412 Les étudiants peuvent être reçus tous les jours de la semaine, sur rendez-vous, en fonction des disponibilités. La prise de rendez-vous s'effectue à la sortie du cours ou par mail. Il est répondu aux questions à la sortie du cours ou sur rendez-vous.

Course's Objectives - Objectifs du cours :

Ce cours doit, en premier lieu, permettre aux étudiants, d'une part, de connaître les différents types de contrat de distribution utilisés par la pratique, notamment au travers de leurs principales caractéristiques, et, d'autre part, de comprendre comment chacune de ces catégories de contrat répond à une stratégie commerciale. Des mises en situation ou des cas concrets seront utilisés à cette fin. En second lieu, l'étudiant sera conduit à appréhender l'influence exercée par le droit de la concurrence, notamment européen, sur la rédaction de ces contrats. Cette analyse est menée à partir des clauses essentielles à chaque catégorie de contrat.

Prerequisites - Pré requis :

L'étudiant doit maîtriser le droit des contrats.

Practical information about the sessions - Modalités pratiques de gestion du cours :

Les ordinateurs sont acceptés en cours. Les étudiants sont invités à participer au cours au moyen de questions, de réactions suscitées par l'exposé de situations concrètes ou de recherche d'une argumentation en réponse à une question juridique. L'objectif étant de parvenir à une réponse ou à une solution à l'issue d'un échange. Les arrivées tardives sont, en principe, interdites, sauf motif valable.

Grading system - Modalités d'évaluation :

L'évaluation de l'acquisition des connaissances et compétences s'effectue au moyen d'une épreuve écrite d'une durée de 1 h 30.

Bibliography/references - Bibliographie/références :

Ouvrages : D.Ferrier et N.Ferrier, Droit de la distribution, LexisNexis, 2017 M.Malaurie-Vignal, Droit de la distribution, Sirey, 2017 L.Vogel, Traité de droit économique, Droit de la concurrence européen et français, T.I, Droit de la distribution, T. II, coll. LawLex, éd. Bruylant, 2015 Sites : Legifrance Autorité de la concurrence Cour de justice de l'Union européenne Commission européenne

Econometrics of Competition

Course title - Intitulé du cours	Econometrics of Competition
Level / Semester - Niveau /semestre	M2 / S1
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	BONNET CELINE
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	30
TA Hours - Volume horaire TD	
TP Hours - Volume horaire TP	0
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	Anglais

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

Céline Bonnet

celine.bonnet@tse-fr.eu

MS106

mode d'interaction : email pour prendre éventuellement un rendez-vous

Course's Objectives - Objectifs du cours :

This course is divided in two parts. The first part aims to give students an introduction to the empirical analysis of market power and competition policies by preparing them to understand econometric methods and to interpret results. The second part is devoted to practical exercises and an application in order to answer to a question of competition policy with data and econometric software.

Outline of the first part

Section I: Simple indicators

- I.1. The relevant market (SSNIP test)
- I.2. Measure of market power (HHI, concentration ration)
- I.3. Measure of consumers' substitutions (Diversion Ratio, IPR, GUPPI, UPP)

Section II: Structural Econometrics

- II.1. Introduction and Definition

II.2. Measurement of market power with differentiated products

II.2.1 Neoclassical demand system (AIDS, Multistage Budgeting)

II.2.2 Random utility approach (logit, nested logit, random coefficient logit)

II.3. Competition analysis

II.3.1 Supply models (Oligopolistic competition, vertical relationships)

II.3.2 Tests between supply models

II.4. Merger/acquisition analysis

Prerequisites - Pré requis :

The students need basic knowledge of econometric methods and software.

Practical information about the sessions - Modalités pratiques de gestion du cours :

Laptops will be useful for practical exercises and the project.

Grading system - Modalités d'évaluation :

The grade of this class will be based on a project.

Bibliography/references - Bibliographie/références :

- Werden G. J., and L. M. Froeb (2006), "Unilateral Competitive Effects of Horizontal Mergers", Handbook of Antitrust Economics
- Reiss, P., and F. Wolak (2006), "Structural Econometric Modelling: Rationales and Examples from Industrial Organization", Handbook of Econometrics, Volume 6
- Bishop, S. And Walker, M. "The Economics of EC Competition Law", Sweet and Maxwell

Probability refresher

Course title - Intitulé du cours	Probability refresher
Level / Semester - Niveau /semestre	M2 / S1
School - Composante	TSE
Teacher - Enseignant responsable	VOLTCHKOVA_EKATERINA
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	15
TA Hours - Volume horaire TD	/
TP Hours - Volume horaire TP	/
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

ekaterina.voltchkova@tse-fr.eu office MF305

Course's Objectives - Objectifs du cours :

The purpose of this refresher course is to recall the basic notions and results of the probability theory used in probability, statistics, and econometrics courses of the M1 program.

Course content

1. Basic notions of probability: sample space, events, probability measure.
2. Examples of probability spaces, discrete probability space, combinatorial problems, counting rules.
3. Independence and conditional probability, theorem of the total probability, Bayes' theorem.
4. Random variables. Definitions and examples of discrete and absolutely continuous distributions such as Bernoulli, binomial, Poisson, uniform, exponential, normal.
5. Expectation, general moments, characteristic function.
6. Random vectors. Joint distribution, moments. Gaussian vectors.
7. Conditional distribution and expectation.

Prerequisites - Pré requis :

Basic mathematical calculus, including derivatives and integration.

Grading system - Modalités d'évaluation :

There is no grading for this refresher course.

Bibliography/references - Bibliographie/références :

Konrad Menzel: Introduction to statistical methods in economics(MIT Open Course Ware: <https://ocw.mit.edu/courses/economics/14-30-introduction-to-statistical-methods-in-economics-spring-2009/>),Robert B. Ash: Basic probability theory,or any other textbook on basic probability theory at your disposal.

Professional Development

Course title - Intitulé du cours	Professional Development
Level / Semester - Niveau /semestre	M2 / S1
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	BRIOT
Other teacher(s) - Autre(s) enseignant(s)	Sarah Haté
Other teacher(s) - Autre(s) enseignant(s)	Clare Boland
Other teacher(s) - Autre(s) enseignant(s)	Barbara Moore
Other teacher(s) - Autre(s) enseignant(s)	Delphine Bentolila
Other teacher(s) - Autre(s) enseignant(s)	Alexandra Artero
Lecture Hours - Volume Horaire CM	12
TA Hours - Volume horaire TD	0
TP Hours - Volume horaire TP	0
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	Anglais

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

lorna.briot@ut-capitole.fr - MA006

sarah.hate@ut-capitole.fr

clare.boland@ut-capitole.fr

barbara.moore@ut-capitole.fr

alexandra.artero@ut-capitole.fr

delphinebentolila@ut-capitole.fr

Please send an email directly to your teacher if you have any questions.

Course's Objectives - Objectifs du cours :

Building your LinkedIn profile ,assessing your personality type, your strengths and weaknesses and learning how to talk about your studies and experience is an immense challenge. The Professional development module offered to first and second year master students (in English or in French) consists of 8 sessions. The facilitator provides input, encourages oral interaction, and practical exercises to practice the skills involved to motivate and empower participants to confront the job market successfully and to find the perfect internship. The following will be covered in the module.

- LinkedIn Workshop
- Self-Discovery
- Internship Strategy
- Writing a CV
- Covering letters
- Interviews
- Networking

- Career Guidance

Prerequisites - Pré requis :

All students must consult the Professional Development Moodle page before attending and bring a cv to the second class on 14th September.

Practical information about the sessions - Modalités pratiques de gestion du cours :

Laptops and tablets may be used during some of the sessions, students will be informed when to bring them to class.

Participation is extremely important and will be taken into consideration for the final grade.

If students arrive late they will not be accepted and will be counted as absent.

Grading system - Modalités d'évaluation :

Professional Development is graded by a final evaluation.

Grading

- 50% - Easyrecrue Evaluation
- 25% - Professional Attitude / Participation and absences/ cv and cover letter
- 25% - Internship Strategy and Business Networking Preparation

Bibliography/references - Bibliographie/références :

All the following resources can be found on the Professional Development Moodle page :

- Cover letters
- Cv's
- E-reputation
- LinkedIn
- Internship Strategy
- Interviews
- Work Environment
- Networking
- Self perception
- Skills and career opportunities
- Testimonies

Session planning - Planification des séances :

Session 1 : LinkedIn and E-reputation workshop

Sessions 2 and 3: Introduction and Module Presentation / Easyrecrue / Describing oneself and one's skills / First draft of the cv / Communication Skills

Sessions 4 and 5: Debrief Easyrecrue / Professional Attitude / Expectations in the workplace / Internship Strategy/ Networking tips / Cover Letter

Session 6 and 7: Public Speaking Skills / Elevator Speech / Interview Skills / Evaluation Easyrecrue

Sessions 8 and 9: Business Networking Day Preparation / Final draft cv and cover letter/ Internship Strategy Feedback

UE1: Topics and Cases in Competition Policy 1

Course title - Intitulé du cours	UE1: Topics and Cases in Competition Policy 1
Level / Semester - Niveau /semestre	M2 / S1
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	LEFOUILI YASSINE
Other teacher(s) - Autre(s) enseignant(s)	Jorge Padilla
Other teacher(s) - Autre(s) enseignant(s)	Cani Fernandez
Other teacher(s) - Autre(s) enseignant(s)	James Venit
Other teacher(s) - Autre(s) enseignant(s)	William Kovacic
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	30
TA Hours - Volume horaire TD	
TP Hours - Volume horaire TP	0
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	Anglais

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

Students should send an email to Yassine Lefouili (yassine.lefouili@tse-fr.eu) if they have any questions or would like to set up an appointment.

Course's Objectives - Objectifs du cours :

This course aims at providing students with a thorough understanding of European competition law and policy in practice. Landmark cases and current hot topics in different areas of European competition policy will be covered.

Prerequisites - Pré requis :

Students need to have an M1-level knowledge of industrial organization and a basic knowledge of European competition law.

Grading system - Modalités d'évaluation :

Students will be assessed based on their participation in class and a final exam.

Bibliography/references - Bibliographie/références :

The main references are:

- David P. and Garcés E., Quantitative Techniques for Competition and Antitrust Analysis, Princeton University Press, 2010.
- Fumagalli, C., Motta, M., Calcagno, C., Exclusionary Practices: The Economics of Monopolisation and Abuse of Dominance, Cambridge University Press.
- Jones. A and Suffrin B., EU Competition Law: Text, Cases, and Materials, Oxford University Press, 2014.

- Lyons, B., *Cases in European Competition Policy: The Economic Analysis*, Cambridge University Press, 2009.
- Motta, M., *Competition Policy: Theory and Practice*, Cambridge University Press, 2004.
- Venit, J., "The Scope of EU Judicial Review in Merger Decisions," *European Competition Law Annual*, 2010, pp 113-130.

More references will be provided in class.

Economics of Internet

Course title - Intitulé du cours	Economics of Internet
Level / Semester - Niveau /semestre	M2 / S2
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	LEFOUILI - ERSHOV
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	30
TA Hours - Volume horaire TD	0
TP Hours - Volume horaire TP	0
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	Anglais

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

Daniel Ershov: office MF 420 - daniel.ershov@tse-fr.eu

Yassine Lefouili: office MF 419 - yassine.lefouili@tse-fr.eu

Please email for an appointment.

Course's Objectives - Objectifs du cours :

The lectures run by Yassine Lefouili will deal with the economics of network effects, internet media platforms and online privacy and security. Economic models will be used to understand (some of) the pricing strategies and privacy policies adopted by digital services. The desirability and impact of a number of regulations will also be discussed. The lectures run by Daniel Ershov will examine empirical evidence of how the internet and digitization affected markets and economic activity: what it is changing but also what remains unchanged. The lectures will also touch on issues of competition policy as they relate to recent anti-trust activity in digital markets. At the end of the lectures, students should understand the economic models underpinning competition, market power and regulation in online markets. Students will also be aware of the main streams and important papers in the large literature examining online markets and digital technology. Students will be exposed to reduced form (i.e., difference-in-differences) and structural (i.e., discrete choice logit) empirical methods of data analysis. At the end of the lectures, students should be able to apply both sets of tools to real world data.

Prerequisites - Pré requis :

M1-level micro, IO and econometrics courses.

Grading system - Modalités d'évaluation :

Grading will be based on two assignments and a final exam.

Bibliography/references - Bibliographie/références :

Part I (Yassine Lefouili)

Lecture 1: Intro + Network Effects

Auriol, E., & Benaim, M. (2000). Standardization in decentralized economies. *American Economic Review*, 90(3), 550-570. Bloch, F. & Quérou, N., 2013. Pricing in social networks. *Games and Economic Behavior*, 80, pp.243-261. ***Fainmesser, I.P. and Galeotti, A., 2015. Pricing network effects. *The Review of Economic Studies*, 83(1), pp.165-198. ***Fudenberg, D., & Tirole, J. (2000). Pricing a network good to deter entry. *The Journal of Industrial Economics*, 48(4), 373-390. ***Katz, M. L., & Shapiro, C. (1985). Network externalities, competition, and compatibility. *American Economic Review*, 75(3), 424-440. ***Levin, J.D. (2011). *The Economics of Internet markets*. NBER Working Paper 16852.

Lectures 2 and 3: Media Platforms and Online Advertising

***Ambrus, A., Calvano, E., & Reisinger, M. (2016). Either or both competition: A "two-sided" theory of advertising with overlapping viewerships. *American Economic Journal: Microeconomics*, 8(3), 189-222. ***Anderson, S. P., & Coate, S. (2005). Market provision of broadcasting: A welfare analysis. *The Review of Economic Studies*, 72(4), 947-972. Anderson, S. P., Foros, Ø., & Kind, H. J. (2018). Competition for advertisers and for viewers in media markets. *The Economic Journal*, 128(608), 34-54. ***Crampes, C., Haritchabalet, C., & Jullien, B. (2009). Advertising, competition, and entry in media industries. *The Journal of Industrial Economics*, 57(1), 7-31. ***Peitz, M., & Valletti, T. M. (2008). Content and advertising in the media: Pay-tv versus free-to-air. *International Journal of Industrial Organization*, 26(4), 949-965. Correia-da-Silva, J., Jullien, B., Lefouili, Y., and Pinho, J. (2018). Mergers between multi-sided platforms: Insights from Cournot competition. *Journal of Economics and Management Strategy*, forthcoming. ***Dewenter, R., Haucap, J., & Wenzel, T. (2011). Semi-collusion in media markets. *International Review of Law and Economics*, 31(2), 92-98. ***Evans, D. S., & Schmalensee, R. (2013). *The antitrust analysis of multi-sided platform businesses*. NBER Working Paper 18783.

Lectures 4 and 5: Data, privacy and market power

***Acquisti, A., Taylor, C., & Wagman, L. (2016). The economics of privacy. *Journal of Economic Literature*, 54(2), 442-92. Belleflamme, P., Lam, W. M. W., & Vergote, W. (2017). Price Discrimination and Dispersion under Asymmetric Profiling of Consumers. AMSE Working Paper. ***Bergemann, D., & Bonatti, A. (2015). Selling cookies. *American Economic Journal: Microeconomics*, 7(3), 259-94. Bergemann, D., Bonatti, A., & Smolin A., (2018). The Design and Price of Information. *American Economic Review*, forthcoming. ***Choi, J. P., Jeon, D. S., & Kim, B. C. (2018). Privacy and personal data collection with information externalities. ***Jullien, B., Lefouili, Y., & Riordan, M.H. (2018). Privacy protection and consumer retention. Working paper. ***Lefouili, Y., & Toh, Y. L. (2018). Privacy regulation and quality investment. TSE Working Paper 17-795. ***Montes, R., Sand-Zantman, W., & T. Valletti (2018). The value of personal information in online markets with endogenous privacy. *Management Science*, forthcoming. Prufer, J., & Schottmüller, C. (2017). Competing with big data. CentER Discussion Paper 2017-007. Rubinfeld, D. L., & Gal, M. S. (2017). Access barriers to big

data. *Arizona Law Review*, 59, 339. ***Toh, Y-L. (2018), Incentivizing firms to protect consumer data: Can reputation play a (bigger) role. Working paper.

Part 2 (Daniel Ershov)

Lecture 1: Intro + Distance

***Agrawal, A., & Goldfarb A. (2008). Restructuring Research: Communications Costs and the Democratization of University Innovation. *The American Economic Review*, 98(4), 1578-1590
***Blum, B. S., & Goldfarb, A. (2006). Does the internet defy the law of gravity?. *Journal of international economics*, 70(2), 384-405 ***Ferreira, F., & Waldfogel, J. (2013). Pop internationalism: has half a century of world music trade displaced local culture?. *The Economic Journal*, 123(569), 634-664 Gaspar, J., & Glaeser, E. L. (1998). Information technology and the future of cities. *Journal of urban economics*, 43(1), 136-156 ***Gentzkow, M., & Shapiro, J. M. (2011). Ideological segregation online and offline. *The Quarterly Journal of Economics*, 126(4), 1799-1839 George, L. M., & Waldfogel, J. (2006). The New York Times and the market for local newspapers. *The American economic review*, 96(1), 435-447

Lecture 2: Search

***Brynjolfsson, E., & Smith, M. D. (2000). Frictionless commerce? A comparison of Internet and conventional retailers. *Management science*, 46(4), 563-585 ***Chiou, L. (2017). Vertical integration and antitrust in search markets. *The Journal of Law, Economics, and Organization* ***Ellison, G., & Ellison, S. F. (2009). Search, obfuscation, and price elasticities on the internet. *Econometrica*, 77(2), 427-452 ***Hortaçsu, A., & Syverson, C. (2004). Product differentiation, search costs, and competition in the mutual fund industry: A case study of S&P 500 index funds. *The Quarterly Journal of Economics*, 119(2), 403-456 Nelson, P. (1970). Information and consumer behavior. *Journal of political economy*, 78(2), 311-329

Lecture 3: Copyright and IP

***Cagé, J., Hervé, N., & Viaud, M. L. (2017). The Production of Information in an Online World: Is Copy Right? ***Giorcelli, M., & Moser, P. (2017). Copyright and creativity: Evidence from Italian operas ***Moser, P. (2005). How do patent laws influence innovation? Evidence from nineteenth-century world's fairs. *American economic review*, 95(4), 1214-1236 ***Nagaraj, A. (2017). Does copyright affect reuse? Evidence from google books and wikipedia. *Management Science* ***Oberholzer-Gee, F., & Strumpf, K. (2007). The effect of file sharing on record sales: An empirical analysis. *Journal of political economy*, 115(1), 1-42 Waldfogel, J. (2012). Copyright protection, technological change, and the quality of new products: Evidence from recorded music since Napster. *The journal of law and economics*, 55(4), 715-740 Survey Paper: Varian, H. R. (2005). Copying and copyright. *The Journal of Economic Perspectives*, 19(2), 121-138

Lecture 4: Reputation Mechanisms

Banerjee, A. V. (1992). A simple model of herd behavior. *The Quarterly Journal of Economics*, 107(3), 797-817 Chevalier, J. A., & Mayzlin, D. (2006). The effect of word of mouth on sales: Online book reviews. *Journal of marketing research*, 43(3), 345-354 ***Jin, G. Z., & Kato, A. (2006). Price, quality, and reputation: Evidence from an online field experiment. *The RAND Journal of Economics*, 37(4),

983-1005 ***Klein, T. J., Lambertz, C., & Stahl, K. O. (2016). Market transparency, adverse selection, and moral hazard. *Journal of political economy*, 124(6), 1677-1713 ***Luca, M. (2017). Reviews, reputation, and revenue: The case of Yelp. com ***Luca, M., & Zervas, G. (2016). Fake it till you make it: Reputation, competition, and Yelp review fraud. *Management Science*, 62(12), 3412-3427 ***Edelman, B., Luca, M., & Svirsky, D. (2017). Racial discrimination in the sharing economy: Evidence from a field experiment. *American Economic Journal: Applied Economics*, 9(2), 1-22 Survey Paper: Tadelis, S. (2016). Reputation and feedback systems in online platform markets. *Annual Review of Economics*, 8, 321-340

Lecture 5: Media Economics Newspaper competition and characteristics

***Angelucci, C., & Cagé, J. (2018). Newspapers in times of low advertising revenues Fan, Ying (2013) Ownership Consolidation and Product Characteristics ***Gentzkow, M., Shapiro, J. M., & Sinkinson, M. (2014). Competition and ideological diversity: Historical evidence from us newspapers. *American Economic Review*, 104(10), 3073-3114 ***Seamans, R., & Zhu, F. (2013). Responses to entry in multi-sided markets: The impact of Craigslist on local newspapers. *Management Science*, 60(2), 476-493 Why do we care about media competition? Cagé, J. (2017). Media Competition, Information Provision and Political Participation: Evidence from French Local Newspapers and Elections, 1944-2014 ***Enikolopov, R., Petrova, M., & Zhuravskaya, E. (2011). Media and political persuasion: Evidence from Russia. *American Economic Review*, 101(7), 3253-85 ***Gentzkow, M., Shapiro, J. M., & Sinkinson, M. (2011). The effect of newspaper entry and exit on electoral politics. *American Economic Review*, 101(7), 2980-3018

Industry regulation

Course title - Intitulé du cours	Industry regulation
Level / Semester - Niveau /semestre	M2 / S2
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	JEON DOH-SHIN
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	30
TA Hours - Volume horaire TD	
TP Hours - Volume horaire TP	0
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	Anglais

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

Doh-Shin Jeon: dohshin.jeon@gmail.com

Yassine Lefouili: yassine.lefouili@tse-fr.eu

Estelle Malavolti: estelle.malavolti@enac.fr

Please send an email if you'd like to set up an appointment with one of the instructors.

Course's Objectives - Objectifs du cours :

This course intends to expose students to market regulation in network industries. It deals more specifically with regulation in the telecommunication, payment card, electricity, and air transport industries. The lectures will be based on academic papers as well as real-world regulatory practices.

Prerequisites - Pré requis :

M1-level microeconomics and industrial organization courses.

Grading system - Modalités d'évaluation :

Grading will be based on assignments and/or a final exam. More details will be provided during the first session.

Bibliography/references - Bibliographie/références :

Part 1: Regulation of (two-way) access prices in the telecommunication industry

- Laffont, Rey, P., and Tirole, J. "Network Competition I: Overview and Nondiscriminatory Pricing." RAND Journal of Economics, Vol. 29 (1998a), pp. 1-37.

- Laffont, Rey, P., and Tirole, J. "Network Competition II: Price Discrimination." RAND Journal of Economics, Vol. 29 (1998b), pp. 38-56.
- Laffont, J.J., Marcus, S., Rey P., and Tirole, J. "Internet Interconnection and the Off-Net-Cost Pricing Principle." RAND Journal of Economics, Vol. 34 (2003), pp. 370-390.
- Jeon, D-S., Laffont, J.J., and Tirole, J. "On the On the 'Receiver-Pays' Principle." RAND Journal of Economics, Vol. 35 (2004), pp.85-110.
- Wright, Julian, "Access Pricing under Competition: An Application to Cellular Networks," Journal of Industrial Economics, Vol. 50 (2002), pp. 289-315.
- Armstrong, Mark and Julian Wright, "Mobile Call Termination" Economic Journal, 2009, Vol. 119: 270-307

Part 2: Regulation of interchange fees in the payment card industry For a non-technical overview, please read the following paper.

- Jean Tirole (2011). "Payment Card Regulation and the Use of Economic Analysis in Antitrust" Competition Policy International, 7(1): 137-158
- Ron Borzekowski, Elizabeth K. Kiser and Shaista Ahmed (2006), "Consumers' use of debit cards: patterns, preferences and price response" Journal of Money, Credit, and Banking
- Rochet, Jean-Charles and Jean Tirole (2002). "Cooperation among Competitors: Some Economics of Payment Card Associations", RAND Journal of Economics, 33: 549-570.
- Rochet, Jean-Charles and Jean Tirole (2011). "Must-Take Cards: Merchant Discounts and Avoided Costs", Journal of the European Economic Association, 9(3): 462-495.
- Marc Rysman and Julian Wright (2014). "The Economics of Payment Cards". Review of Network Economics, 13: 303-353 - Zhu Wang, (2016) "Price Cap Regulation in a Two-Sided Market: Intended and Unintended Consequences", International Journal of Industrial Organization, 45: 28-37

Part 3: Regulation of the electricity industry

Energy policy in the EU: <https://ec.europa.eu/energy/en/home>

Crampes, C. and M. Laffont (2014), "Connection Pricing and Universal Service Obligations in Distribution Networks", Competition and Regulation in Network Industries, 15, 32–58.

Fabra, N. (2018), "A primer on capacity mechanisms", working paper. Green, R. (1996), "Increasing Competition in the British Electricity Spot Market", Journal of Industrial Economics, 44, 205-216.

Léautier, T.O., (2016) Imperfect Markets and Imperfect Regulation: The Microeconomics and Political Economy of Power Markets and Networks.

Llobet, G. and J. Padilla (2018), "Conventional Power Plants in Liberalized Electricity Markets with Renewable Entry," with Jorge Padilla, The Energy Journal, forthcoming.

Part 4: Air transport regulation

4.1. Introduction IATA world air transport statistics ENAC database

4.2. Air traffic regulation

Gillen, Starkie (2015) "Congested Hubs, the EU Slot Regulation and Incentives to Invest", mimeo. ICAO, document 9626, "Manual on the regulation of air transport".

4.3. Airport activity regulation

Starkie, D. (2002), "Airport regulation and Competition", Journal of Air Traffic Management, vol.8 issue 1.

Malavolti, E. (2016), "Single Till vs Dual Till at airports, a two-sided market analysis", Transportation Research Procedia, vol 14.

Session planning - Planification des séances :

Part 1: Regulation of (two-way) access prices in the telecommunication industry (Doh-Shin Jeon - 6 hours)

Part 2: Regulation of interchange fees in the payment card industry (Doh-Shin Jeon - 6 hours)

Part 3: Regulation of the electricity industry (Yassine Lefouili - 9 hours)

3.1. Physical and economic characteristics of electricity

3.2. Regulatory issues in the electricity industry

3.3. Capacity mechanisms: theory and practice

Part 4: Air Transport Regulation (Estelle Malavolti - 9 hours)

4.1. Introduction General understanding of the organization of the air transport sector. Presentation of the main characteristics of the sector, the main stakeholders, the industry and the profit.

4.2. Air traffic regulation 4.2.1 Bilateral agreements and open sky agreements 4.2.2. Slots allocation

4.3. Airport activity regulation 4.3.1 Airport business model 4.3.2 Airport regulations

Market Regulation in the Digital World

Course title - Intitulé du cours	Market Regulation in the Digital World
Level / Semester - Niveau /semestre	M2 / S2
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	DE CORNIERE - RAPP
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	30
TA Hours - Volume horaire TD	0
TP Hours - Volume horaire TP	0
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	Anglais

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

lucien.rapp@ut-capitole.fr Office AR315

Lundi et Vendredi - mail et rendez-vous

alexandre.de-corniere@tse-fr.eu Office MF418

email et rendez-vous

Course's Objectives - Objectifs du cours :

Bonne compréhension du contexte général de la révolution numérique (en ce compris la révolution des techs et l'intelligence artificielle)

Initiation au droit de la concurrence

Connaissances essentielles en International Business Law (Droit de la propriété intellectuelle, Droit des sociétés, Droit du commerce international, Droit des financements internationaux)

Maniement du raisonnement economico-juridique

In the second part of the course (Prof. de Cornière), we will discuss some recent regulatory issues related to the digital economy (e.g. net neutrality, the sharing economy, the Google cases, platform regulation).

We will use a mix of formal models and non-technical economic reasoning.

Prerequisites - Pré requis :

Bonne connaissance générale de l'évolution de l'économie et du raisonnement logique.

Students should be familiar with standard tools of industrial organization (monopoly, oligopoly). Having taken the "Industrial Organization" course in M1 is recommended.

Practical information about the sessions - Modalités pratiques de gestion du cours :

Students will be evaluated in part based on their active participation during class.

Grading system - Modalités d'évaluation :

Contrôle continu

For the second part of the course there will be a short exam as well as a group project.

Topics and Cases in Competition Policy 2

Course title - Intitulé du cours	Topics and Cases in Competition Policy 2
Level / Semester - Niveau / semestre	M2 / S2
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	LEFOUILI YASSINE
Other teacher(s) - Autre(s) enseignant(s)	Jean-Gabriel Despeuroux (MAPP)
Other teacher(s) - Autre(s) enseignant(s)	Cani Fernandez (Cuatrecasas)
Other teacher(s) - Autre(s) enseignant(s)	Jorge Padilla (Compass Lexecon Europe)
Other teacher(s) - Autre(s) enseignant(s)	Etienne Pfister (Autorité de la Concurrence)
Other teacher(s) - Autre(s) enseignant(s)	Clément Pradille (Gide Loyrette Nouel)
Other teacher(s) - Autre(s) enseignant(s)	Jacqueline Riffault-Silk (Cour de Cassation)
Other teacher(s) - Autre(s) enseignant(s)	James Venit (Dentons)
Lecture Hours - Volume Horaire CM	30
TA Hours - Volume horaire TD	
TP Hours - Volume horaire TP	
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	Anglais

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

Yassine Lefouili - Office MF 419 - yassine.lefouili@tse-fr.eu

Course's Objectives - Objectifs du cours :

This course is the sequel of Topics and Cases in Competition Policy 1. Its objective is to expose students further to recent competition cases and hot topics in European competition policy. Most lectures will be run by practitioners from law firms, courts, competition authorities and economic consultancies.

Prerequisites - Pré requis :

M1-level industrial organization and competition law courses.

Grading system - Modalités d'évaluation :

Grading will be based on participation and a report on a competition case.

Bibliography/references - Bibliographie/références :

Ezrachi, A. (2016), EU Competition Law: An Analytical Guide to the Leading Cases, Fifth Edition, Bloomsbury

Fumagalli, C., Motta, M., and C. Calcagno, Exclusionary Practices: The Economics of Monopolisation and Abuse of Dominance.

Jones, A. and Sufrin, B. (2014), EU Competition Law: Text, Cases, and Materials, Fifth Edition, Oxford University Press.

Advanced Industrial Organization

Course title - Intitulé du cours	Advanced Industrial Organization
Level / Semester - Niveau / semestre	M2 / Semestre 3
School – Composante	TSE
Teacher - Enseignant responsable	REY PATRICK - JEON DOH-SHIN
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	30
TA Hours - Volume horaire TD	/
TP Hours - Volume horaire TP	/
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

dohshin.jeon@gmail.com MF410

patrick.rey@tse-fr.eu MF527

Course's Objectives - Objectifs du cours :

It is an introductory class of advanced industrial organization theory with particular emphasis on the interface between theory and practice of competition policies. For this purpose, I will cover a number of real world cases tightly related to the theory that I teach. A new part of the class since the last year is that I will cover the two-sided market. In the first half, I will teach the basic subjects and the theory of two-sided markets. In the second half, I will teach more advanced topics: when I teach advanced topics, I will also try to teach how each topic can be studied in a two-sided market (if possible). There will be a total of 30 hours. All hours will be covered by myself except for one week's teaching by Patrick Rey, who will cover topic 8, "Intrabrand competition, Interbrand competition and Competition Policy".

Prerequisites - Pré requis :

Basic game theory and intermediate level of microeconomics

Practical information about the sessions - Modalités pratiques de gestion du cours :

In principle, there use is prohibited. If you want to use a laptop or a tablet for typing, please let me know in advance.

Grading system - Modalités d'évaluation :

The grading will be based only on the final exam, which typically composed of: binary choice questions, exercises and analysis of a short case. So you should understand well economic intuitions of course materials and able to perform the analysis and apply the results to cases.

Bibliography/references - Bibliographie/références :

Main texts Motta, Massimo. Competition Policy: Theory and Practice. Cambridge University Press, 2004
Tirole, Jean. The Theory of Industrial Organization, MIT, 1988
Other references Kwoka, J. E; White, L.J. The Antitrust Revolution, Harper Collins College Publishers, 1994 (2nd edition), 1999 (3rd edition), 2004 (4th edition)
Whinston, Michael D. Lectures on Antitrust Economics, MIT, 2006

Session planning - Planification des séances :

Part I: Basic concepts (and two-sided markets) with applications to competition policy
1. Competition Policy: History and definition (Motta, Chap 1)-Brief History of Competition Policy: US, Germany, EU-Objectives of Competition Policy-Competition Policy and Market Power
2. Two-sided markets - Definition-Monopoly-Competition

- Anderson, Simon and Stephen Coate (2005). "Market Provision of Broadcasting: A Welfare Analysis", Review of Economic Studies, 72: 947-972
- Armstrong, Mark (2006). "Competition in Two-Sided Markets", RAND Journal of Economics, 37: 668-691.
- Caillaud, Bernard and Bruno Jullien (2003). "Chicken and Egg: Competition Among Intermediation Service Providers", RAND Journal of Economics, 34: 309-329.
- Rochet, Jean-Charles and Jean Tirole (2002). "Cooperation among Competitors: Some Economics of Payment Card Associations", RAND Journal of Economics, 33: 549-570.
- Rochet, Jean-Charles and Jean Tirole (2003). "Platform Competition in Two-Sided Markets", Journal of the European Economic Association, 1: 990-1029.
- Rochet, Jean-Charles and Jean Tirole (2006). "Two-Sided Markets: A Progress Report", RAND Journal of Economics, 35: 645-666
- Rochet, Jean-Charles and Jean Tirole (2011). "Must-Take Cards: Merchant Discounts and Avoided Costs", Journal of the European Economic Association, 9(3): 462-495.
- 3. Market definition and Horizontal Mergers (Motta. Chap 3, 5)-Incentives to merge: Cournot vs Bertrand-Benefit-Cost analysis of horizontal merger-Merger guideline and market definition-Cases: Coca-Cola and Dr Pepper (Kwoka and White, 1994) Nestle and Perrier (Motta)
- Deneckere, R. J. and C. Davidson (1985). "Incentive to Form Coalitions with Bertrand Competition." The RAND Journal of Economics, 16: 473-86.
- Salant, S., S. Switzer and R. Reynolds (1983). "Losses from Horizontal Merger: the Effects of an Exogenous Change in Industry Structure on Cournot-Nash Equilibrium." Quarterly Journal of Economics, 98:185-199.
- 4. Collusion and Horizontal agreements (Motta. Chap 4, Tirole, Chap 6)-Relevant factors for collusion: Theory with application to Nestle and Perrier case (Motta)-Coordination and the role of communication: Sugar Institute (AER, 2001), ATP case (Motta)- Standard of proofs (What should be legal or illegal?) and Wood Pulp case (Motta) - Leniency program
- Bernheim, Douglas and Michael Whinston (1990). "Multimarket Contact and Collusive Behavior." The RAND Journal of Economics, 21(1), 1-26.
- Genesove David and Wallace P. Mullin. "Rules, Communication and Collusion: Narrative Evidence from the Sugar Institute Case", American Economic Review, Vol 91, 379-98, 2001
- Green, E and R. Porter (1984), "Non-Cooperative Collusion Under Imperfect Price Information", Econometrica 52:87-100.
- 5. Vertical agreements (Motta. Chap 6, Tirole, Chap 4)-Terms of vertical restraints -Basic vertical externalities-Intrabrand competition-Interbrand competition
- Part II: Advanced Topics
6. Exclusive dealing with application to the First Microsoft case (Kwoka and White, 1999)

- Aghion, P and G. Bolton (1987). "Contracts as a Barrier to Entry", *American Economic Review* 77: 388-401
- Bernheim, Douglas, and Michael Whinston. (1998). "Exclusive Dealing." *Journal of Political Economy*, 106(1): 64-103
- Fumagalli, Chiara and Massimo Motta, (2006). "Exclusive Dealing and Entry, when Buyers Compete," *American Economic Review*, 96(3): 785-795.
- Rasmusen, E. B., J. M. Ramseyer, and J.S. Wiley. (1991). "Naked Exclusion," *American Economic Review*, 81: 1137-45.
- Segal, Ilya and Michael Whinston (1997), "Naked Exclusion: Comment." *American Economic Review* 90: 296-309. Vertical relations: Intrabrand competition, Interbrand competition and Competition Policy (by Patrick Rey)
- Hart, O. and J. Tirole, (1990), "Vertical Integration and Market Foreclosure," *Brookings Papers on Economic Activity (Microeconomics)*, 205-285.
- Rey, Patrick and Jean Tirole (2005). "A Primer on Foreclosure," *Handbook of Industrial Organization*, vol. III, North Holland, 2005, p. 2145-2220.
- Rey, Patrick and Thibaud Vergé (2010). "Resale Price Maintenance and Interlocking Relationships", *Journal of Industrial Economics*, 58(4), p. 928-961.
- Cases: OFT vs Imperial Tobacco, DOJ vs Apple (e-book case)8. Tying and Bundling with application to Microsoft bundling case (Motta, Chap 7.3.2)
- Bakos, Yannis, and Eric Brynjolfsson. (1999). "Bundling Information Goods: Pricing, Profits and Efficiency." *Management Science*, 45(12): 1613-1630.
- Carlton, Dennis, W. and Michael Waldman, (2002). "The Strategic Use of Tying to Preserve and Create Market Power in Evolving Industries," *Rand Journal of Economics*, Summer, pp. 194-220.
- Choi, Jay P., and Chris Stefanadis. (2001). "Tying, Investment, and the Dynamic Leverage Theory." *RAND Journal of Economics*, 32(1): 52-71.
- Jeon, Doh-Shin and Domenico Menicucci (2006). "Bundling Electronic Journals and Competition among Publishers," *Journal of the European Economic Association*, vol.4 (5): 1038-83.
- Jeon, Doh-Shin and Domenico Menicucci (2012). "Bundling and Competition for Slots", *American Economic Review*, 102, 1957-1985.
- McAfee, R.P, McMillan, J., Whinston, M. (1989). "Multiproduct Monopoly, Commodity Bundling, and Correlation of Values," *Quarterly Journal of Economics* 104, pp. 371-384.
- Nalebuff, Barry. (2004). "Bundling as an Entry Barrier." *Quarterly Journal of Economics*, 119(1): 159-188.
- Whinston, Michael D. (1990). "Tying, Foreclosure and Exclusion." *American Economic Review*, 80(4): 837-859. -Tying in two-sided markets
- Choi, Jay Pil (2010), "Tying in Two-Sided Markets with Multi-Homing," *Journal of Industrial Economics*, 58 (3), pp. 607-626
- Choi, Jay Pil and Doh-Shin Jeon, (2016) "A Leverage Theory of Tying in Two-sided Markets", TSE WP9.IT and compatibility
- Crémer, Jacques, Patrick Rey and Jean Tirole. (2000) "Connectivity in the Commercial Network" *Journal of Industrial Economics*, 48(4): 433-72
- Hurkens, Sjaak, Doh-Shin Jeon and Domenico Menicucci (2018) "Dominance and Competitive Bundling" forthcoming, *American Economic Journal: Microeconomics*
- Jeon, Doh-Shin and Domenico Menicucci (2011). "Interconnection among Academic Journal Websites: Multilateral versus Bilateral Interconnection", *The RAND Journal of Economics*, 42(2): 363-386.

- Katz, Michael L. and Carl Shapiro (1985). "Network Externalities, Competition, and Compatibility", *American Economic Review*, 75, 424-440.
- Matutes, Carmen and Pierre Régibeau (1988). "'Mix and Match': Product Compatibility without Network Externalities," *RAND Journal of Economics*, vol. 19(2), pages 221-234

Economics of innovation and Intellectual Property

Course title - Intitulé du cours	Economics of innovation and Intellectual Property
Level / Semester - Niveau /semestre	M2 / Semestre 3
School - Composante	TSE
Teacher - Enseignant responsable	JEON_DOH-SHIN
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	30
TA Hours - Volume horaire TD	/
TP Hours - Volume horaire TP	/
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

dohshin.jeon@gmail.com MF410

Course's Objectives - Objectifs du cours :

I introduce the students to a selection of important current issues in the economics of intellectual property (IP). After the introduction to the messy current situation of the IP world and firms' IP strategies, we review important economic contribution to topics such as litigation and injunction, settlement, weak patents, patent pool, patent trolls (or NPEs), cross-licensing, standard setting organizations, etc.

Prerequisites - Pré requis :

Students need to have basic knowledge of industrial organization theory; the TSE M1 IO level is fine. This implies that you also need to know basic game theory.

Practical information about the sessions - Modalités pratiques de gestion du cours :

They are not allowed except when you use them for typing.

Grading system - Modalités d'évaluation :

Grading will be based on the final exam (70%) and group presentations and participation in the class (30%).

Bibliography/references - Bibliographie/références :

General reading:

- Suzanne Scotchmer, Innovation and Incentives, 2004, MIT Press
- Bessen, J., and Meurer, M., 2008. Patent Failure: How Judges, Bureaucrats, and Lawyers Put Innovators at Risk. Princeton, NJ: Princeton University Press.
- Jaffe, A. B. and J. Lerner, 2004, Innovation and Its Discontents: How Our Broken Patent System is Endangering Innovation and Progress, and What to Do About It., Princeton, N.J.: Princeton University Press

Session planning - Planification des séances :

Session 1: Introduction The major part is based on the slides made by Margaret Kyle on "IP Business Strategy", which will be complemented by the following papers.

- Andrei Hagiu (2011) "Intellectual Property Intermediaries", Harvard Business School, Case study
- Andrei Hagiu, David Yoffie and Alison Berkley Wagonfeld (2011) "Intellectual Ventures" Harvard Business School, Case study
- Michael A. Heller and Rebecca S. Eisenberg (1998) "Can Patents Deter Innovation? The Anticommons in Biomedical Research" *Science* 280: 698-701

Session 2: Antitrust limits to settlement

- Carl Shapiro (2003) "Antitrust Limits to Patent Settlements" *The RAND Journal of Economics* Vol. 34, No. 2, pp. 391-411

Session 3: Injunction and weak patents

- Carl Shapiro. (2010). "Injunctions, Hold-Up, and Patent Royalties." *American Law and Economics Review*. 12:509-557-Farrell and Shapiro, (2008). "How strong are weak patents?", *American Economic Review*, 98:1347-69

Session 4: Standard setting organization

- Gilbert, R. J., & Newbery, D. M. (1982). Preemptive patenting and the persistence of monopoly. *The American Economic Review*, 514-526.
- Vickers, John. "The evolution of market structure when there is a sequence of innovations." *The Journal of Industrial Economics* (1986): 1-12 on increasing dominance.
- Riordan, Michael H., and David J. Salant. "Preemptive adoptions of an emerging technology." *The journal of industrial economics* (1994): 247-261
- Llanes, Gaston and Joaquin Pobleto (2015), "Technology Choice and Coalition Formation in Standards Wars." Mimeo

Session 5: Patent Pool

- Lerner, J., and J. Tirole. 2004. "Efficient Patent Pools." *American Economic Review*, 94(3): 691-711.
- Choi, Jay Pil and Heiko Gerlach (2015). "Patent Pools, Litigation and Innovation." *The RAND Journal of Economics*, 46(3): 499-523
- Markus Reisinger and Emanuele Tarantino (2016), "Patent Pools in Input markets" Mimeo

Session 6: NPE or Patent Trolls

- Lemus, Jorge and Temnyalov, Emil, (2017) "Patent Privateering, Litigation and R&D Incentives," *The RAND Journal of Economics* 48(4)
- Choi, Jay Pil and Heiko Gerlach (2016). "A Model of Patent Trolls." Mimeo

Session 7: Cross-licensing

- Jeon, Doh-Shin and Yassine Lefouili (2018) "Cross-Licensing and competition", Forthcoming, *The RAND Journal of Economics*

Session 8: Sequential Innovations

- Jerry Green and Suzanne Scotchmer (1995) “On the Division of Profit in Sequential Innovation.” RAND Journal of Economics, Vol. 26: 20-33
- James Bessen and Eric Maskin (2009) “Sequential Innovation, patents and imitation” RAND Journal of Economics, Vol. 40: 611-635

Session 9: Tying and dynamic leverage

- Choi, Jay Pil (1996) “Preemptive R&D, Rent Dissipation and the Leverage Theory”, Quarterly Journal of Economics, 1153-1181

Session 10: Student presentations