

Economía de la Energía

Maestría en Economía Ambiental – CIDE

Semestre de Primavera 2017

Prof. Pedro I. Hancevic

Programa de la materia

Objetivos

Este curso está diseñado para ayudar a preparar a los estudiantes a realizar investigación empírica en economía de la energía, poniendo también cierto énfasis en las áreas de economía ambiental relacionadas a economía de la energía. El curso tiene dos objetivos generales. El primero es el desarrollo de una comprensión más profunda de los métodos empíricos y de investigación que se utilizan en el campo de la economía de energía y del medio ambiente. El segundo es que los estudiantes se familiaricen con (algunos) de los modelos económicos y con los principales hallazgos empíricos que orientan el camino de la investigación de frontera en este campo.

Se busca entonces hacer hincapié en cómo la teoría económica nos puede ayudar a responder las preguntas fundamentales como las siguientes: ¿Cómo funcionan los mercados de energía?; ¿Cuándo debería el gobierno intervenir para regular un mercado de energía?; ¿Cuál es la forma apropiada de intervención del gobierno en un mercado de energía?; ¿Qué puede decirnos la estructura de un mercado o la naturaleza de una falla de mercado acerca de cómo diseñar e implementar políticas de energía y del medioambiente que sean eficaces para lograr metas de política pública? Por supuesto que la lista de interrogantes no finaliza aquí, y solo se enumeran algunas de las más relevantes.

MÓDULO I. Orientación inicial. Técnicas empíricas

- 1- Breve reseña de experimentos aleatorios de campo. Inferencia causal y cuasi-experimentos
- 2- Modelos de efectos fijos y de diferencias en diferencias
- 3- *Matching estimators* y ajustes basados en regresiones
- 4- Variables instrumentales.
- 5- Modelos de elección discreta estáticos y dinámicos.
- 6- Juegos dinámicos (dependiendo del calendario, del progreso en los puntos anteriores, del interés de los alumnos)

MÓDULO II. Energía.

- 1- Mercado de electricidad. Oferta y Demanda.
- 2- Eficiencia energética. Uso de durables que consumen energía de forma intensiva.
- 3- Precios de la gasolina, economía de combustibles y demanda del consumidor.
- 4- Petróleo, Gas natural y Mercado de Gasolinas

- 5- Energía en países emergentes

MÓDULO III. Medioambiente y políticas medioambientales.

- 1- Efectos de regulaciones del aire en la actividad industrial
- 2- Regulaciones medioambientales basadas en mecanismos de mercado
- 3- Estándares de ahorro de combustible. Regulaciones para combustibles.
- 4- Daños por cambio climático. Salud y contaminación.

Modalidad del curso y actividades de aprendizaje

La primera mitad del curso se basa exclusivamente en la presentación de modelos teóricos y métodos cuantitativos relevantes. Tiene un formato de clase tradicional donde el docente imparte los temas.

La segunda mitad del curso está enfocada a la presentación por parte de los alumnos de artículos publicados en revistas académicas sobre algunos de los tópicos que son de particular interés en la materia y a su vez se resolverán ejercicios que contemplen la estimación de modelos empíricos.

Criterios de evaluación:

Presentación de artículos académicos y participación en clase	40%
Resumen de artículos y simulación de reporte de referee	20%
Trabajos Prácticos y tareas	40%

Bibliografía

General

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