

REDES SOCIALES (2017-18)**DATOS GENERALES**

Código 41217

Créditos ECTS 5

Departamentos y áreas

Departamento	Área	Dpt. Resp.	Dpt. Acta
FUNDAMENTOS DEL ANÁLISIS ECONÓMICO	FUNDAMENTOS DEL ANALISIS ECONOMICO	SÍ	SÍ

Estudios en que se imparte

MÁSTER UNIVERSITARIO EN ECONOMÍA CUANTITATIVA

Contexto de la asignatura

1. INTRODUCTION: graphs and their properties, degree distributions, graph measures, centrality.
2. RANDOM NETWORKS: Erdos-Reny, general random graphs, random network formation, the emergence of network properties.
3. GAMES IN NETWORKS: complete and incomplete information
4. INFORMATION IN SOCIAL NETWORKS. Difussion and contagion. Information transmission. Imperfect information and the formation of expectations. Learning in networks.
5. APPLICATIONS AND EMPIRICAL CONSIDERATIONS. Citation and scientific networks, applications to crime, empirical estimation and endogeneity.



OBJETIVOS

Objetivos específicos aportados por el profesorado (2017-18)

This course is designed with the two main purposes of giving students a systematic grounding in Social Networks and preparing them to use network economic models in their own research.



CONTENIDOS

Contenidos teóricos y prácticos (2017-18)

1. INTRODUCTION: graphs and their properties, degree distributions, graph measures, centrality.
2. RANDOM NETWORKS: Erdos-Reny, general random graphs, random network formation, the emergence of network properties.
3. GAMES IN NETWORKS: complete and incomplete information
4. INFORMATION IN SOCIAL NETWORKS. Difussion and contagion. Information transmission. Imperfect information and the formation of expectations. Learning in networks.
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EVALUACIÓN

Instrumentos y criterios de Evaluación 2017-18

Assignments. There will be 5 problem sets. Cooperation in the assignments is encouraged, but they should be written up individually. There will be a midterm in the sixth week that will comprise the first three chapters. The final will be a three-hour exam given during exam week.

Evaluation. Evaluation will be based on a combination of the problem sets (25% of the grade), the midterm (30% of the grade) and the final exam (45% of the grade). Minimum grade to pass is 5 out of 10.

Those students with a grade below 5 will have a second opportunity in the corresponding exam period. They will keep the 20% corresponding to the problem sets.

Student evaluation of teaching. At the end of the course and before the final exam, students will fill a questionnaire to evaluate teacher's performance in the course. This evaluation is a compulsory requirement to be graded in the course.

Tipo	Criterio	Descripción	Ponderación
EXAMEN FINAL	Está en inglés	Está en inglés	50
ACTIVIDADES DE EVALUACIÓN DURANTE EL SEMESTRE	Está en inglés	Está en inglés	50