



<b>COURSE: Government Policy Evaluation</b>		
<b>DEGREE: Doble Grado en Derecho y Economía</b>	<b>YEAR: 4</b>	<b>TERM: 2</b>

<b>WEEKLY PROGRAMMING</b>								
WEEK	SESSION	DESCRIPTION	GROUPS		Special room for session (computer classroom, audio-visual classroom...)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINAR		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS Maximum 7 H
1	1	Topic 1 (Introduction and Motivation): Definitions of treatment effects and causality. Problems in the identification and estimation of treatment effects, and their relationship to traditional econometric techniques.	X			Read MHE, Chapter 1	1,5	5
1	2	Introduction to Stata.		X	X	Train Stata. Solve and discuss the problem set and other assigned work.	1,5	
2	3	Topic 2 (Experiments): The advantages of randomization and how it enables the estimation of treatment effects. Verify successful randomization, heterogeneous treatment effects. Limitations of randomized experiments.	X			Read MHE, Chapter 2	1,5	5
2	4	Introduction to Stata. Problem Set 1.		X	X	Solve and discuss the problem set and other assigned work.	1,5	

3	5	Topic 3 (Natural experiments): Exploit natural events or policy changes to identify the effect of treatment on the treated. The Difference-in-Differences Estimator.	X			MHE, Chapter 3.1	1,5	5
3	6	Problem Set 1		X		Solve and discuss the problem set and other assigned work.	1,5	
4	7	Topic 3 (Natural experiments): The Difference-in-Differences Estimator. Common or varying trends; additional regressors.	X			MHE, Chapters 3.1 and 3.2	1,5	5
4	8	Problem Set 2		X		Solve and discuss the problem set and other assigned work.	1,5	
5	9	Topic 4 (Matching): Exogeneity, matching and multiple regression. Extrapolation. Matching based on the probability to be treated (Propensity Score Matching).	X			MHE, Chapter 3.3 (skip pp. 74-79)	1,5	5
5	10	Problem Set 2		X		Solve and discuss the problem set and other assigned work.	1,5	
6	11	Topic 4 (Matching): Exogeneity, matching and multiple regression. Extrapolation. Matching based on the probability to be treated (Propensity Score Matching).	X			MHE, Chapter 3.3 (skip pp. 74-79)	1.5	5
6	12	Problem Set 3		X		Solve and discuss the problem set and other assigned work.	1,5	
7	13	Topic 5 (Instrumental variables): Wald estimator. Interpretation of the IV estimator with homogeneous or heterogeneous treatment effects.	X			Revise IV estimator with homogenous treatment effects. MHE Chapters 4.1-4.1.2.	1,5	

7	14	Problem Set 3		X		Solve and discuss the problem set and other assigned work.	1,5	5
8	15	Topic 5 (Instrumental variables): eligibility rule; the local average treatment effect (LATE); monotonicity condition. Limitations. Marginal Treatment Effects (if time allows).	X			MHE, Chapters 4.4-4.4.3	1,5	5
8	16	<b>EXAM</b> based on Topics 1, 2, 3 and 4 and Problem Sets 1, 2 and 3		X			1,5	
9	17	Topic 5 (Instrumental variables): Two-stage least square estimator. Extensions.	X			MHE, Chapters 4.4, 4.6.1	1.5	5
9	18	Problem Set 4		X		Solve and discuss the problem set and other assigned work.	1,5	
10	19	Topic 6 (Regression Discontinuity): Sharp and fuzzy regression discontinuity (RD) designs. Continuity in potential outcomes and testable implications.	X			MHE, Chapter 6	1,5	5
10	20	Problem Set 4		X		Solve and discuss the problem set and other assigned work.	1,5	
11	21	Topic 6 (Regression Discontinuity): The interpretation and estimation of fuzzy regression discontinuity designs by IV estimator. Parametric and non-parametric implementation. Local linear regression.	X			MHE, Chapter 6	1,5	5
11	22	Problem Set 5		X		Solve and discuss the problem set and other assigned work.	1,5	

12	23	Topic 7 (Structural Models): Advantages and Disadvantages of atheoretical vs. structural approaches. The estimation of structural models. Dynamic models (if time allows). General equilibrium effects (if time allows).	X			Read: tba	1,5	5
12	24	Problem Set 5.		X		Solve and discuss the problem set and other assigned work.	1,5	
13	25	Time for group projects.	X				1,5	5
13	26	Time for group projects.		X			1,5	
14	27	Revision	X				1,5	5
14	28	<b>EXAM</b> based on Topics 5, 6 and 7 and Problem Sets 4 and 5		X			1,5	
<b>SUBTOTAL</b>							<b>110</b>	
15		<b>Tutorials, revision, etc</b>						8
16-18		<b>Exam preparation and assessment</b>					3	19
<b>TOTAL</b>							<b>140</b>	