



<b>COURSE: Applied Economics</b>		
<b>DEGREE: Economics</b>	<b>YEAR: 3</b>	<b>TERM: 2</b>

<b>WEEKLY SCHEDULE</b>								
WEEK	SESSI ON	DESCRIPTION	GROUPS		Special room for session (computer classroom, audio- visual classroom ...)	STUDENT WORK DURING THE WEEK		
			LECTUR ES	SEMINA RS		DESCRIPTION	CLAS S HOU RS	HOMEWOR K HOURS Maximum 7 H
1	1	Introduction and review of the linear regression model.	X			OLS estimation. Interpretation of the OLS regression equation.	1.5	6 H
1	2	Introduction to gretl.		X	Computer classroom	Learning how to open, create, describe, edit, and save economic datasets in gretl.	1.5	
2	3	Economic application of the linear regression model. Testing Hypotheses.	X			Article discussion, replicate results.	1.5	6 H
2	4	Linear regression using gretl (I)		X	Computer classroom	How to run a regression. How to test a hypothesis.	1.5	
3	5	Models of binary dependent variables.	X			Linear Probability Model, Probit and Logit models.	1.5	6 H
3	6	Models of binary dependent variables in gretl.		X	Computer classroom	Models of binary dependent variables in gretl. Interpretation of the estimations.	1.5	
4	7	Instrumental Variables (I)	X			Endogenous Controls. Estimation and Inference in the presence of endogenous controls.	1.5	6 H
4	8	First quiz		X	Computer classroom		1.5	
5	9	Instrumental Variables (II)	X			Valid Instruments. Endogeneity and Overidentification Tests.	1.5	6 H

5	10	Instrumental Variables in gretl.		X	Computer classroom		1.5	
6	11	Wald estimator. Application of Instrumental Variables.	X			Article discussion and replication.	1.5	6 H
6	12	Instrumental Variables in gretl.		X	Computer classroom		1.5	
7	13	Policy evaluation using pooled cross-sections.	X			Pooled cross-sections and evaluation of policy changes.	1.5	6 H
7	14	Second quiz		X	Computer classroom		1.5	
8	15	Difference in differences estimator.	X			OLS as diff-in-diffs estimator.	1.5	6 H
8	16	Policy evaluation with pooled cross-sections		X	Computer classroom		1.5	
9	17	Review and questions.	X				1.5	6 H
9	18	Difference in differences estimator in gretl.		X	Computer classroom	How to obtain diff-in-diff estimators in gretl.	1.5	
10	19	Panel data: first difference estimator.	X			Panel data and unobserved heterogeneity. First difference estimator.	1.5	6 H
10	20	Article discussion: Diff-in-diff application.		X	Computer classroom	Article discussion and replication.	1.5	
11	21	Panel data: fixed effects and within estimator.	X			Within estimator. Regression with dummy variables. Unbalanced panels.	1.5	6 H
11	22	Panel data in gretl.	X		Computer classroom	How to organize panel data. First difference estimator.	1.5	
12	23	Panel data: random effects model.	X			Random effects model. FE vs RE.	1.5	6 H
12	24	Panel data in gretl.		X	Computer classroom	Panel commands in gretl. FE vs RE.	1.5	
13	25	Carrying out an Empirical Project	X			Carrying out an Empirical Project.	1.5	6 H
13	26	Third quiz		X	Computer classroom		1.5	
14	27	Review and questions.	X				1.5	6 H
14	28	Review and questions.		X	Computer classroom		1.5	
<b>SUBTOTAL</b>							<b>42</b>	<b>+ 84 = 126</b>
15		Tutorials, etc						3
16-18		Assessment					3	18
<b>TOTAL</b>							<b>150</b>	