



COURSE: ADVANCED STATISTICAL METHODS		
DEGREE: BACHELOR IN INTERNACIONAL STUDIES	YEAR: 3	TERM: 2

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		Special room for session (computer classroom, audio-visual classroom...)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	Lesson 1. Introduction	X			Search for examples of socio-economic statistics in the media	1,5	4
1	2	Lesson 1. Introduction		X		Present examples found in class	1,5	
2	3	Lesson 2.Survey sampling: survey techniques	X			Design a sample selection method for a specific survey	1,5	4
2	4	Lesson 2.Survey sampling: survey techniques		X		Present the proposed selection methods in class	1,5	
3	5	Lesson 2.Survey sampling: estimation of socio-economic indicators based on survey data	X			Search for important socio-economic indicators of a country	1,5	6
3	6	Laboratory 1: Introduction to software		X	Computer room	Obtain descriptive statistics and construct plots based on a data set	1,5	
4	7	Lesson 2.Survey sampling: estimation of socio-economic indicators based on survey data	X			Study the estimation methods for survey data	1,5	6

4	8	Laboratory 2: Estimation of socio-economic indicators based on real data		X	Computer room	Estimate specific socio-economic indicators using data from a given survey	1,5	
5	9	Lesson 3. Panel data analysis: models with fixed effects	x			Find a model for a specific panel data set	1,5	6
5	10	Lesson 2. Survey sampling: Estimation of socio-economic indicators based on survey data		x		Present obtained estimates of selected socio-economic indicators in class	1,5	
6	11	Review	x			Review all the previous material	1,5	6
6	12	First partial exam (assessed)		x			1,5	
7	13	Lesson 3. Panel data analysis: models with fixed effects	x			Study the different types of models and the interpretation of model parameters	1,5	6
7	14	Partial presentation of project		x		Present the first part of the Project in class	1,5	
8	15	Lesson 3. Panel data analysis: models with fixed effects	X			Study methods of analysis of indicators based on models with fixed effects	1,5	6
8	16	Laboratory 3: Fitting fixed effects models for panel data.		X	Computer room	Fit a model with fixed effects to actual data and analyze specific socio-economic indicators based on the fitted models	1,5	
9	17	Lesson 3. Panel data analysis: models with fixed effects	X			Study estimation methods for indicators based on models with fixed effects	1,5	6
9	18	Lesson 3. Panel data analysis: models with fixed effects		X		Present the results of model fitting to actual data and analysis of socio-economic indicators based on the fitted models	1,5	
10	19	Lesson 4. Panel data analysis: models with random effects	X			Study the different types of models and the interpretation of model parameters	1,5	6
10	20	Laboratory 4: Fitting random effects models for panel data		X	Computer room	Fit a model with random effects to actual data and analyze specific socio-economic indicators based on the fitted models	1,5	
11	21	Lesson 4. Panel data analysis: models with random effects	X			Study estimation methods for indicators based on models with random effects	1,5	6
11	22	Lesson 4. Panel data analysis: models with random effects		X		Present the results of model fitting to actual data and analysis of socio-economic indicators based on the fitted models	1,5	
12	23	Lesson 5. Heteroscedasticity and serial correlation in panel data	X			Study the different types of models and the interpretation of model parameters	1,5	6
12	24	Lesson 5. Heteroscedasticity and serial correlation in panel data		X		Study methods of analysis of indicators based on models with heteroscedasticity or serial correlation	1,5	
13	25	Lesson 6. Evaluation of the effects of public	X			Find a model for the effect of a specific	1,5	6

		interventions				public intervention		
13	26	Lesson 6. Evaluation of the effects of public interventions		X		Present the results of the modeling of a specific public intervention	1,5	
14	27	Review	X			Review all the previous material	1,5	
14	28	Second partial exam (assessed)		X			1,5	6
Subtotal 1							42	80
Total 1 (Hours of class plus student homework hours between weeks 1-14)							42+80=122	

15		Final presentation of project (assessed)				Present the final project in class	15	
16		Assessment					3	10
17								
18								
Subtotal 2							3	10
Total 2 (Hours of class plus student homework hours between weeks 15-18)							15+3+10=28	

TOTAL (Total 1 + Total 2)							150	
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