

COURSE: Statistics for social sciences II: multivariate techniques			
DEGREE: International Studies (IS) / IS and Law / IS and Political Science	YEAR: 2 (3 for IS and Law)	TERM: 1	

	WEEKLY PLANNING									
I	SESSION	DESCRIPTION	GROUPS (mark X)				Special room for session (computer classroom,	WEEKLY PROGRAMMING FOR S	STUDENT	
	2		LECTURES	SEMINARS	audio-visual classroom)	DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)		
1	1	Topic 1.1. Simple linear regression. Introduction; motivation; graphical data analysis; model formulation; parameter interpretation; examples; applications.	x			Study of Topic 1.1	1,5	6		
1	2	Practical class.		х		Exercises for Topic 1.1	1,5			
2	3	Topic 1.2. Fitting the model to the data; the least squares criterion; using the fitted model.	х			Study of Topic 1.2	1,5	6		
2	4	Practical class.		х		Exercises for Topic 1.2	1,5			
3	5	Topic 1.3. Model assumptions; inference on model parameters I: confidence intervals; inference on the response.	x			Study of Topic 1.3	1,5	6		

3	6	Practical class.		x		Exercises for Topic 1.3	1,5		
4	7	Topic 1.4. Inference on model parameters II: hypothesis testing; statistical significance of estimated parameters.	х			Study of Topic 1.4	1,5	6	
4	8	Practical class.		х		Exercises for Topic 1.4	1,5		
5	9	Topic 1.5. Assessing model fit; ANOVA; model diagnostics.	х			Study of Topic 1.5	1,5	c	
5	10	Practical class.		х	computer classroom	Computer lab	1,5	6	
6	11	Topic 2.1. Multiple linear regression. Motivation; model formulation; parameter interpretation; examples; applications; fitting the model to the data; the least squares criterion; using the fitted model.	х			Study of Topic 2.1	1,5	6	
6	12	Practical class.		х		1st midterm exam	1,5		
7	13	Topic 2.2. Model assumptions; inference on model parameters I: confidence intervals; inference on the response.	х			Study of Topic 2.2	1,5	6	
7	14	Practical class.		х		Exercises for Topic 2.2	1,5		
8	15	Topic 2.3. Inference on model parameters II: hypothesis testing; statistical significance of estimated parameters; assessing model fit; ANOVA.	х			Study of Topic 2.3	1,5	6	
8	16	Practical class.		х		Exercises for Topic 2.3	1,5		
9	17	Topic 2.4. Selection of predictor variables; multicollinearity; model diagnostics.	х			Study of Topic 2.4	1,5	c	
9	18	Practical class.		х	computer classroom	Computer lab	1,5	6	
10	19	Topic 3.1. Binomial logistic regression. Motivation; model assumptions and formulation; parameter interpretation; examples; applications.	х			Study of Topic 3.1	1,5	6	
10	20	Practical class.		х		Exercises for Topic 3.1	1,5		
11	21	Topic 3.2. Fitting the model to the data; using the fitted model; inference on model parameters; statistical significance of estimated parameters.	Х			Study of Topic 3.2	1,5	6	

11	22	Practical class.		х		Exercises for Topic 3.2	1,5	
12	23	Topic 3.3. Assessing model fit; selection of predic variables; multicollinearity.	ctor x			Study of Topic 3.3		6
12	24	Practical class.		х	computer classroom	Computer lab	1,5	0
13	25	Topic 4.1. Principal component analysis. Motivat formulation; variance explained; examples; applications.	ion; x			Study of Topic 4.1	1,5	6
13	26	Practical class.		х		2nd midterm exam		
14	27	Topic 4.2. Deciding the number of components t keep; component scores; interpretation of components; graphical representations.	x			Study of Topic 4.2	1,5	6
14	28	Practical class.		х	computer classroom	Computer lab	1,5	
Subtotal 1						42	84	
Total 1 (Hours of class plus student homework hours between weeks 1-14)					ours between weeks 1-14)	12	26	

15		Tutorials, handing in, etc		Tutorials			6
16							
17		Assessment				3	15
18							
					Subtotal 2	3	21
Total 2 (Hours of class plus student homework hours between weeks 15-18)				24			

TOTAL (Total 1 + Total 2)	150
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