COURSE: Statistics II		
DEGREE: Dual Bachelor in Law and Economics	YEAR: 2	TERM: 1

WEEK	SES- SION	DESCRIPTION	GROUPS		Special room for session (com-	WEEKLY SCHEDULE FOR STUDENT		
			LEC- TURES	SEMI- NAR	puter classroom, audio-visual classroom)	DESCRIPTION	CLASS HOURS	HOME- WORK HOURS Maximum 7 H
1	1	Chapter 1 theory I: Review of statistical concepts. Inference in one population. Point estimation and confidence interval estimation.	х			Study of Chapter 1 part I contents.	1,5	6
1	2	Chapter 1 practice I: Solving exercises - inference in one population. Point estimation and confidence interval estimation.		х		Solving exercises for Chapter 1 part I.	1,5	
2	3	Chapter 1 theory II: Confidence intervals for the mean: normal population (known variance), large samples. Confidence intervals for the proportion.	х			Study of Chapter 1 part II contents.	1,5	5
2	4	Chapter 1 practice II: Solving exercises - confidence intervals for the mean: normal population (known variance), large samples. Confidence intervals for the proportion.		х		Solving exercises for Chapter 1 part II.	1,5	-
3	5	Chapter 1 theory III: Confidence intervals in a normal population: mean (un- known variance) and variance.	x			Study of Chapter 1 part III contents.	1,5	6
3	6	Chapter 1 practice III: Solving exercises - confidence intervals in a normal population: mean (unknown variance) and variance.		х		Solving exercises for Chapter 1 part III.	1,5	
4	7	Chapter 2 theory I: Basic concepts in hypothesis testing. Null and alternative hypotheses. Test statistic, significance level, Type I and Type II errors. Procedure.	x			Study of Chapter 2 part I contents.	1,5	6
4	8	Chapter 2 practice I: Solving exercises with tests of hypotheses.		х		Solving exercises for Chapter 2 part I.	1,5	1
5	9	Chapter 2 theory II: p-value. Example of tests for the mean, proportion. Power of a test.	х			Study of Chapter 2 part II contents.	1,5	6
5	10	Chapter 2 practice II: Solving exercises with tests of hypotheses.		х	1	Solving exercises for Chapter 2 part II.	1,5	1

6	11	Chapter 2 theory III: More examples of tests. Tests and confidence intervals.	Х			Study of Chapter 2 part III contents.	1,5	5
6	12	Chapter 2 practice III: Solving exercises with tests of hypotheses; power of a test.		Х		Solving exercises for Chapter 2 part III.	1,5	
7	13	Chapter 3 theory I: Comparing two populations. Confidence intervals and hypothesis testing for the differences in means and proportions in independent samples.	Х			Study of Chapter 3 part I contents. Reviewing Chapters 1 and 2. Preparing for the midterm.	1,5	7
7	14	Chapter 3 practice I: Solving exercises - comparing two populations. Midterm 1 (Chapters 1 and 2)		x		Solving exercises for Chapter 3 part I. Reviewing Chapters 1 and 2. Preparing for the midterm.	1,5	
8	15	Chapter 3 theory II: Comparing two populations. Confidence intervals and hypothesis testing for the ratio of variances in independent samples. Differences in means in paired samples.	х			Study of Chapter 3 part II contents.	1,5	6
8	16	Computer Lab 1 (Chapters 1, 2 and 3). Using software to calculate confidence intervals and perform hypothesis testing in one and two populations.		Х	Computer lab	Solving exercises for Chapter 3 parts I and II.	1,5	
9	17	Chapter 4 theory I: Covariance, correlation and scatterplot. Simple linear re- gression model: formulation.	Х			Study of Chapter 4 part I contents.	1,5	6
9	18	Chapter 4 practice I: Solving exercises - covariance, correlation and scatterplot. Fitting a simple linear regression model.		х		Solving exercises for Chapter 4 part I.	1,5	
10	19	Chapter 4 theory II: Simple linear regression model - formulation and assump- tions, parameter estimation, properties of the estimators.	х			Study of Chapter 4 part II contents.	1,5	6
10	20	Chapter 4 practice II: Fitting a simple linear regression model, inference for the parameters.		Х		Solving exercises for Chapter 4 part II.	1,5	
11	21	Chapter 4 theory III: Simple linear regression - inference.	Х			Study of Chapter 4 part III contents.	1,5	5
11	22	Chapter 4 practice III: Solving exercises for the linear regression model. Mean response and forecast estimation.		х		Solving exercises for Chapter 4 part III.	1,5	
12	23	Chapter 4 theory IV: Simple linear regression - inference. Confidence and pre- diction intervals.	х			Study of Chapter 4 part IV contents. Reviewing Chapters 3 and 4. Preparing for the midterm.	1,5	7
12	24	Chapter 4 theory IV: Solving exercises - simple linear regression, inference. Confidence and prediction intervals. Midterm 2 (Chapter 3 and part of Chapter 4)		х		Solving exercises for Chapter 4 part IV. Reviewing Chapters 3 and 4. Preparing for the midterm.	1,5	

13	25	Chapter 5 theory I: Model diagnostics in a simple linear regression model. ANOVA.	Х			Study of Chapter 5 part I contents.	1,5	6
13	26	Computer Lab 2 (Chapter 4): Fitting a simple linear regression model. Residual analysis. Fitting a multiple linear regression model.		х	Computer lab	Solving exercises for Chapter 5 part I.	1,5	
14	27	Chapter 5 theory II: Linear regression model in matrix notation. Multiple linear regression.	х			Study of Chapter 5 part II contents.	1,5	7
14	28	Chapter 5 practice I: Solving exercises - linear regression model in matrix nota- tion. ANOVA. Multiple linear regression.		х		Solving exercises for Chapter 5 part II.	1,5	
<b>SUBTOT</b>	TAL						42 + 8	4 = 126
15		Tutorials, project handing -in, etc				Group tutorial class Individual tutorials and/or make-up classes Preparation for the final exam	1,5	10,5
16-18		Assessment				Preparation for the final exam Final exam		12
TOTAL					•		1	50