

## "Fan S. Noli" University Faculty of Agriculture



	Short Program of Course	e:	Academic Year: 2021	<mark>- 2022</mark>	
ECONOMIC STATISTICS					
"Bachelor" in "Agribusiness Management" First Cycle Study Program (180 ECTS)					
Thist Cycle Study Hogram (160 EC15)					
	Type of activity ho	urs	Credits:	5	
	Lectures: 4	4	Discipline:	B	
	Seminars: 1	1	1		
	Exercises:		Total workload 5 x 25	= 125	
	Laboratory:		Calss workload:	55	
	Fieldwork practice:		Individual wprkload:	70	
	Clinical practice:		1	<u></u>	
	Sportive practice:		Code: AGR	-A-05	
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	Description of Course				
	ANALYSIS OF VARIANCE				
	1. Understanding the variation analysis				
1	2. Basic assumptions for variation analysis				
	-3. Simple factorial model of variation analysis				
	couples		iation mixe vn. companson's pi	occurre of averages	
	ANALYSIS OF VARIANCE				
	5. Two-factorial model of variation analysis				
2	6. Procedure for two-factorial model of variation analysis				
_	-7. Some guidance on the modeling experiments application for the variation analysis				
	8. Completely random experimental scheme. Experimental scheme with random blocks				
	REGRESSION AND CORRELATION ANALYSIS				
	1. Understanding the links between economic phenomena and regression & correlation				
3	- 2. Their importance for the economic phenomena analysis				
	-3. Types of connections between phenomena				
	4. Methods of ascertainment (finding) correlative links				
	REGRESSION AND CORRELATION (Detween two variables "x" and "y") Relation's form study between two				
	8. Simple linear regression				
4	9. Raising the problem				
	-10. Implementation of M.K.V (SSM) for parameters evaluation				
	11. Co-deviance and covariance				
	REGRESSION AND CORRELATION ANALYSIS				
	16. The linear correlation coefficient				
5	17. Simple non-linear regression and correlation (lean line) Parabolic model				
5	18. Hyperbolic model				
	19. Power and exponential models				
	20. Logistic model REGRESSION AND CORRELATION ANALYSIS				
	23. Validity control of the regression through "t" criterion Validity control of the correlation coefficient				
6	Prognosis through regression models				
0	24. Point prognosis, Interval prognosis				
	25. Multiple regression and correlation				
	26. Two factorial regression and correlation	on of linear form 7	wo factorial regression and co	prrelation of linear form	

	NON-PARAMETRIC TESTS		
	1. A general understanding of the non-parametric methods		
_	2. Association coefficient General coefficient of links Some association tests		
1	3. $\chi$ 2 Test (Chi-square) more suitable and most likely to use		
	4. Other strength coefficients of association between quality variables		
	5. Some non-narametric methods for quantitative variables with asymmetric distribution (not normal) Sign test		
	1 Mann Whitney criterion for small choices. Mann & Whitney criterion for large choices. Mann Whitney criterion		
	for comparing two medians of two different populations		
8	2. Kruskal-Wallis's criterion Spearman. Coefficient Cupurov coefficient		
	3. Correlation and non-parametric tests more relevant factorial		
	Seminars: Ouestions and exercises Dynamic strain and exercises		
	1. The importance of dynamic analysis based on time series basis and its key moments.		
0	2. Assessment of basic trend (trend) of the time series with simple statistical methods		
9	3. Averaging method and methods of extending the intervals as trend detection methods Trend statistical		
	inference		
	4. The link between indicators that are given in time series form		
	5 Evaluation of the seasonal component.		
10	6 Seasonal coefficients and some details of their calculation Details for disassemble of time series levels in its		
10	components Prognosis of economic phenomena.		
	7 Prognosis of seasonal phenomena without wobble. Prognosis with regression models. Prognosis of seasonal		
	nhenomena wobbles DECISION MAKING ANALYSIS		
	1. Introduction in decision theory		
11	2. The structure of the decision problem		
11	3. Table of payment and settlement Decision Tree		
	4. Table of opportunistic losses Decision-making with probability Graphical sensitivity analysis Expected value of		
	perfect information Decision-making without probability		
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