Bachelor Degree in Business Administration (L-18) Statistics Economics Free choice activities a.y. 2023-2024, 2nd semester, 6 ECTS Credits

Prof. Francesco Rania

Course Information	Statistics Economics and Einance (SECS-S/02) 6 ECTS 25 hours				
course information	Statistics Economics and Finance (SECS-S/03) 6 ECTS – 35 hours Lesson period: 2nd semester, a.y. 2023-2024				
	Free choice activities Law-Economics Area				
Professor Information	Prof. Francesco Rania				
	Department of Law, Economy and Sociology				
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	Office hours: during the lesson period; before and after the lessons and every				
	month before the examination				
Course Description	The aim of the course is to provide probabilistic and statistical tools for the				
F	quantitative treatment of data on economic phenomena observed in time and				
	space.				
Course goals and	Upon course completion, a student will be able to:				
Expected Learning	Know and apply the index numbers, simple and complex.				
Outcomes	Understand National Accounts and know main economic aggregates;				
	• Describe the relationship among the variables characterizing development,				
	growth, labour, production, and wellness of a country;				
	Estimate efficiency measures, and temporal variations;				
	Perform analysis of time series regarding economic phenomena;				
	Measure effects of growth, development, unemployment, and productivity.				
Program	<u>Elements of Statistics:</u> univariate descriptive statistics: frequency tables, graphical				
	summaries (plots), summary statistics; contingency table; Random variables;				
	Elements of point estimate statistics; Hypothesis tests.				
	Index numbers: classification of index numbers; numbers elementary indices, fixed-				
	base, a mobile base; Synthetic index numbers; Choice of the base; Choosing the				
	method of calculation; properties and formal conditions of index numbers; Index				
	numbers calculated by ISTAT: Laspeyres, Paasche e Fisher; numbers of prices, productions, exchanges, and labor.				
	National Accounts and economic aggregates: characteristics of SEC95, operations				
	among economic aggregates, the production and distribution account, the use of				
	income, the accumulation accounts, the balance sheet, and the accounts of the rest				
	of the world.				
	Series analysis: classical analysis of time series; models for economic time series;				
	the approach based on deterministic functions; approach with stochastic				
	components; stochastic processes ARIMA.				
	Analysis of growth, development, and labor: economic growth; growth accounting				
	and structural indicators; the labor market ; sources of labor force statistics;				
	synthetic indices and specific employment and unemployment Labour;				
	Analysis of production: economic interdependences, input-output table; framework				
	of an open economic system; The production function and the measurement of				
	productivity; production function; the production function of Cobb Douglas;				
	productivity indicators.				
	Welfare analysis: Consumption analysis; the function of aggregate consumption;				
	specification and estimation of the parameters of a function of consumption;				

	models and measures of income inequalities.				
Expected student workload	Approximately 90 hours.				
Teaching methods	 Lectures Problem-solving Exercises during the classroom lessons 				
Learning resources (textbooks, eventual further reading,)	 <u>Textbook</u> R. Guarini, F. Tassinari, Statistica Economica, il Mulino manuali, 2000 				
	 <u>Further reading</u> Paolo Chirico, Lezioni di statistica economica, G Giappichelli Editore, 2013 Simone. Compendio di Statistica economica, 2014. 				
Support activities	Subject-specific seminars				
Attendancy policy	The attendancy policy is established by art. 8 of the University teaching regulation: http://www.unicz.it/pdf/regolamento_didattico_ateneo_dr681.pdf.				
Assesment Methods		tion is written and oral. The student must have obtained a score of written part to be able to sit for the final (oral) part.			
	Grade	Grade knowledge and understanding of the topic	Ability to analyze and synthesize	Use of references	
	Fail	Severe shortcomings and inaccuracies	Irrelevant frequent generalizations. Inability to synthetize	Completely inappropriate	
	18-20	Sufficient. Important shortcomings.	Sufficient capabilities	Sufficient	
	21-23	Basic knowledge	The student is capable of correct analysis and synthesis, he argues logically and consistently	The student uses standard references	
	24-26	Satisfactory. Good knowledge	The student has good analysis and synthesis skills. The arguments are expressed consistently	The student uses standard references	
	27-29	Very good	The student has considerable skills in analysis and synthesis	The student studies in depth the topics of the exam	
	30-30L	Excellent	The student has Excellent analysis and synthesis skills	Important insights	