Bachelor Degree in Business Administration (L-18) Statistics Economics a.y. 2023-2024, 3rd year, 2nd semester, 5 ECTS Credits

Prof. Francesco Rania

Course Information	Statistics Economics and Finance (SECS-S/03) 5 ECTS – 35 hours Lesson period: 3rd year, 2nd semester, a.y. 2023-2024 Free choice activities				
Professor Information	Prof. Francesco Rania Department of Law, Economy and Sociology Website: https://www.diges.unicz.it/web/docenti/rania-francesco/ Email: raniaf@unicz.it Phone: +39 0961 3694 4987 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 quantitative treatment of data on economic phenomena observed in time and space.				
Course goals and Expected Learning Outcomes	 Upon course completion, a student will be able to: Know and apply the index numbers, simple and complex. 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>Index numbers</u> : 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. <u>National Accounts and economic aggregates</u> : 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. <u>Series analysis</u> : classical analysis of time series; models for economic time series; the approach based on deterministic functions; approach with stochastic components; stochastic processes ARIMA. <u>Analysis of growth, development, and labor</u> : economic growth; growth accounting and structural indicators; the labor market ; sources of labor force statistics; synthetic indices and specific employment and unemployment Labour. <u>Analysis of production</u> : 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. <u>Welfare Analysis</u> : 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.				

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Teaching methods	- Lectures					
	- Problem-solving					
	- Exercises during the classroom lessons					
Learning resources	<u>Textbook</u>					
(textbooks, eventual	• R. Guarini, F. Tassinari, Statistica Economica, il Mulino manuali, 2000					
further reading,)						
	Further reading					
	5					
	 Paolo Chirico, Lezioni di statistica economica, G Giappichelli Editore, 2013 Simono, Compondio di Statistica economica, 2014 					
	• 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	The examination is written and oral. The student must have obtained a score of					
	14/30 in the written part to be able to sit for the final (oral) part.					
	Grade	Grade knowledge and	Ability to analyze and	Use of references		
		understanding of the topic	synthesize			
	Fail	Severe shortcomings and	Irrelevant frequent	Completely		
		inaccuracies	generalizations. Inability to	inappropriate		
			synthetize			
	18-20	Sufficient. Important	Sufficient capabilities	Sufficient		
		shortcomings.				
	21-23	Basic knowledge	The student is capable of	The student		
			correct analysis and	uses standard		
			synthesis, he argues logically and consistently	references		
	24-26	Satisfactory. Good	The student has good	The student		
		knowledge	analysis and synthesis skills.	uses standard		
			The arguments are	references		
			expressed consistently			
	27-29	Very good	The student has	The student		
			considerable skills in	studies in		
			analysis and synthesis	depth the		
				topics of the		
	20 201	Evcollont	The student has Excellent	exam Important		
	30-30L	Excellent	analysis and synthesis skills	Important insights		
			analysis and synthesis skills	msignts		