



**University "Ukshin Hoti" Prizren**  
**Faculty of Economics**  
**Program: Business Administration (MSc)**

<b>SYLLABUS</b>							
Level of studies	<b>Master</b>	Program	<b>Business Administration</b>	Academic year	<b>2023/24</b>		
<b>COURSE</b>		<b>ECONOMETRICS</b>					
Year	<b>II</b>	Course Status	<b>Obligatory</b>	Code		ECTS credits	<b>7</b>
Semester	<b>III</b>						
Teaching weeks	15		Teaching classes			Lectures	Exercises
						<b>3</b>	<b>2</b>
Teaching Methodology	<b>Interactive lectures, discussions, projects, case studies, analytic memo</b>						
Consultation	<b>Mondays 10:00-12:00 and Wednesdays 12:00-14:00</b>						
Professor	<b>Prof. Ass. Dr. Anera Alishani</b>			e-mail	anera.alishani@uni-prizren.com		
				Tel.	00383 45 280 532		
Assistant	<b>Ass. Altina Kamberaj</b>			e-mail	altina-k@hotmail.com		
				Tel.			
<b>Course objectives</b>				<b>Learning outcomes</b>			
<p>The aim of the subject is to enable students to develop an understanding of econometrics to a level that will equip them with the understanding and evaluation of the most applied cross-sectoral data analysis and to be able to undertake such analysis. More specifically, the aims of this subject are: - to develop an understanding of the use of regression analysis and related techniques for evaluating economic relations and testing economic theories - to enable students to read and evaluate empirical works in professional journals - to provide practical experience of using major regression programs (STATA) to generate economic models.</p>				<p>Student:</p> <ol style="list-style-type: none"> <li>1. Interprets the key concepts of econometrics,</li> <li>2. Formulates an empirical model from various economic phenomena,</li> <li>3. Collects quantitative data from national and international databases,</li> <li>4. Conducts an empirical analysis through the OLS method,</li> <li>5. Executes diagnostic tests of linear regressions,</li> <li>6. Evaluates the results from the empirical analysis,</li> <li>7. Demonstrates proficiency in using econometric software (STATA).</li> </ol>			
<b>Teaching methodology</b>							
<ul style="list-style-type: none"> <li>▪ During the course emphasis is placed on repetition, logical sense, consolidation of theoretical knowledge acquired in lectures (in the form of tests of 20-minute) and above all the ability to develop their practical application.</li> <li>▪ A significant portion of the course will be done through small groups of students (4-5 students), to whom will be delivered certain cases studies from reality in the world and in Kosovo.</li> <li>▪ At the end will be delivered assignments as homework.</li> </ul>							
<b>Conditions for implementation of the course topics</b>							
Table, computer, projector and other IT tools for learning and exercises, computer lab, STATA Software							
<b>Examination methods and grading</b>							
Regular attendances	10.00 %	<b>Evaluation in%</b>			<b>Final grade</b>		
Intermediate Test I	30.00 %	91 - 100			10	( ECTS – A)	
Intermediate Test II	30.00 %	81 – 90			9	( ECTS - B)	

Exercises	10.00 %	71 – 80	8	( ECTS - C)
Project	20.00 %	61 – 70	7	( ETCS - D)
		51 – 60	6	( ETCS - E)
		40 - 50	5*	( ETCS – FX)
<b>Student obligations</b>				
<b>Lectures</b>		<b>Exercises</b>		
The student must attend regularly the lectures and exercises, must use all possibilities for learning the knowledge required, must use literature and wider, must be active and keep regulations on higher education in ethics and courtesy for cooperation.		The student must be active and reflective exercises and knowledge readiness initiatives, ideas and demonstration of knowledge gained in lectures. The exercises will be conducted through special statistical programme such as STATA, thus the students are required also to practice out of regular hours		
<b>Student workload (must correspond with learning outcomes)</b>				
<b>Activities</b>	<b>Hour</b>	<b>Days/Weeks</b>	<b>Total</b>	
Lectures	3	15	45	
Exercises, practical work	2	15	30	
Contacts with teachers / consultations	1	6	6	
Colloquia, Exam	2	2	4	
Homework	2	15	30	
Own study time	3	15	45	
Preparation for final exam	1	10	10	
Projects, presentations, etc..	1	5	5	
Notice: 1 ECTS credits = 25 hour commitment, e.g. if the subject has 7 ECTS credits student must have 175 hours during the semester commitment.		<b>Total load:</b>	<b>175</b>	
<b>Designed study plan</b>				
Week	Lectures	Hour	Exercises	Hour
	Topic		Topic	
1	<b>Presentation of the Syllabus Introduction</b>	3	Questions for discussion	2
2	<b>Econometrics and economic data</b> <ul style="list-style-type: none"> <li>• What is econometrics</li> <li>• Application of econometrics</li> <li>• Steps in empirical economic analysis</li> <li>• Structure of economic data</li> <li>• Causality, ceteris paribus and counterfactual reasoning</li> </ul>	3	Computer Exercises	2
3	<b>Simple regression analysis</b> <ul style="list-style-type: none"> <li>• Definition of the simple regression model</li> <li>• The benefit of estimations according to the OLS method</li> <li>• Regression with an independent variable</li> <li>• Interpretation</li> </ul>	3	Computer Exercises	2

4	<b>Simple regression analysis</b> <ul style="list-style-type: none"> <li>• Characteristics of OLS estimates in each data sample</li> <li>• Algebraic properties</li> <li>• Goodness of fit</li> <li>• Examples</li> </ul>	3	Computer Exercises	2
5	<b>Properties of regression coefficients and hypothesis testing</b> <ul style="list-style-type: none"> <li>• Random components of regression coefficients</li> <li>• Gauss-Markov assumptions</li> <li>• Impartiality of regression coefficients</li> <li>• Accuracy of regression coefficients</li> </ul>	3	Computer Exercises	2
6	<b>Properties of regression coefficients and hypothesis testing</b> <ul style="list-style-type: none"> <li>• Formulation of hypotheses</li> <li>• Hypothesis testing (t-test)</li> <li>• F test of goodness of fit</li> </ul>	3	Computer Exercises	2
7	<b>Multiple Regression Analysis: Evaluation</b> <ul style="list-style-type: none"> <li>• Motivation for multiple regressions</li> <li>• Mechanics and interpretation of OLS</li> </ul>	3	Computer Exercises	2
8	<b>First Intermediate Test</b>	3	Consultations	2
9	<b>Expected value of the OLS estimators</b> <ul style="list-style-type: none"> <li>• Inclusion of irrelevant variables</li> <li>• Variance of OLS estimators</li> <li>• Efficiency of OLS</li> <li>• Suggestions about terminology</li> </ul>	3	Computer Exercises	2
10	<b>Nonlinear models and transformation of variables</b> <ul style="list-style-type: none"> <li>• Linearity</li> <li>• Logarithmic transformations</li> <li>• Semi-logarithmic models (lin-log and log-lin)</li> <li>• Distribution term</li> <li>• Non-linear regression</li> <li>• Use of logarithmic functional forms</li> </ul>	3	Computer Exercises	2
11	<b>Statistical Inference</b>	3	Computer Exercises	2
12	<b>Binary Variables</b> <ul style="list-style-type: none"> <li>• Description of qualitative information</li> <li>• Regressions with a binary variable</li> <li>• Spanning more than two categories and multiple sets of dummy variables</li> <li>• Slope dummy variables</li> </ul>	3	Computer Exercises	2
13	<b>Diagnostic Tests</b> <ul style="list-style-type: none"> <li>• Multicollinearity</li> <li>• Heteroscedasticity</li> </ul>	3	Computer Exercises	2
14	<b>Diagnostic Tests</b> <ul style="list-style-type: none"> <li>• Normality</li> <li>• Model specification</li> </ul>	3	Computer Exercises	2
15	Second Intermediate Test	3	Presentations	2

## LITERATURE:

### Basic Literature:

- Hyrije Abazi (2022), Hyrje në Ekonometri”
- Wooldridge J., (2012), Introductory Econometrics - A Modern Approach

### Additional Literature:

- Wooldridge J., Solutions Manual and Supplementary Materials for Econometric Analysis of Cross Section and Panel Data - [MIT Press]
- Asteriou, D., & Hall, S. G., (2015), Applied econometrics. Macmillan International Higher Education.

## Academic policies and code of conduct

- First of all, the student should be aware of and respect the institution and school rules,
- Should also respect the schedule of lectures, exercises and be attentive at teaching,
- It is mandatory possession and presentation of the ID in tests and exams,
- During compilation of seminar papers, a student must adhere to the instructions given by the teacher to realize and technical research paper.
- The usage of phones is prohibited, except in cases when the teacher allows for educational purposes.
- If the students do not attend three lectures during the first part, is not allowed to enter in the First Intermediate Test.