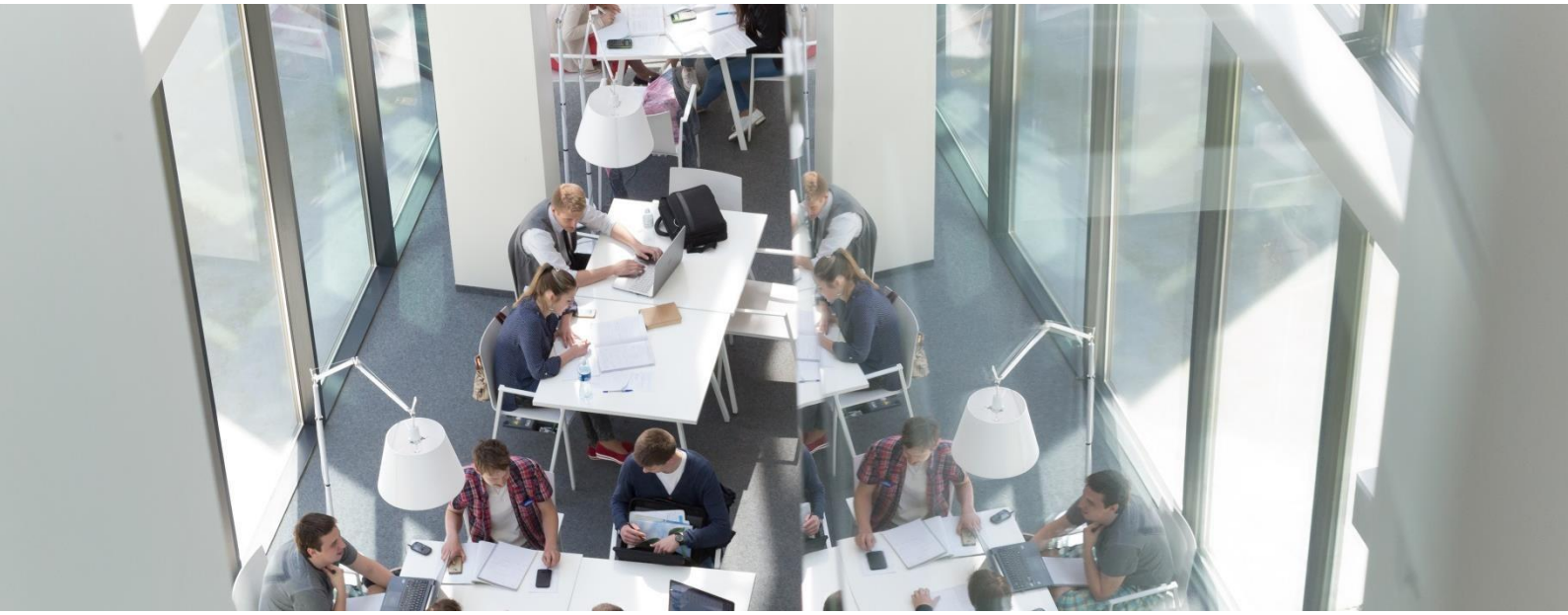

QUANTITATIVE ECONOMICS

Programme type	Bachelor's studies (university)
Field of study	Economics
Study area	Social Sciences
Degree	Bachelor in Social Sciences
Duration	3 years (6 semesters)
Workload	180 ECTS
Language of instruction	English
Location	Vilnius, Lithuania
Starting date	1st of September

PROGRAMME DESCRIPTION

- *The objective*

The objective of the programme is to prepare high quality economists with strong quantitative, modelling, statistical, mathematical and analytical skills, as well as critical thinking aimed at solving economic problems.

- *Career opportunities*

Quantitative methods will allow graduates to choose careers in the sectors of economic and financial analysis, as well as data analytics, which can valuable for all sorts of businesses.

In addition, graduates will be able to work as forecasters of different social phenomena, statisticians, market or industry researchers, data researchers, financial asset managers and investment fund managers, corporate and public consultants, economic policy evaluators, financial and economic analysts in commercial banks or other similar financial institutions, economists at central banks or other public or international institutions.

- *Access to further studies*

Graduates will be able to continue their studies in all fields of economics. In addition, they can enter graduate programmes of financial engineering, quantitative sociology, quantitative marketing or any other analytical management programmes, also applied mathematics and statistics, econometrics, big data analysis, etc.

KEY LEARNING OUTCOMES

- Have acquired knowledge in classical and modern theories and principles of economics and finance and be able to apply them when analysing economic problems.
- Have acquired knowledge in quantitative methods and be able to competently apply them when working with different types of economic and financial data.
- Appreciate the possibilities and the limits of scientific research methods when solving economic problems.
- Undertake applied research that uses empirical evidence to validate economic arguments.
- Apply critical thinking skills when analysing economic problems.
- Explain and interpret mathematical models describing social phenomena.
- Critically evaluate economic policy in the real-world situations.
- Find relevant data, evaluate its quality, conduct statistical analysis using modern software packages and prepare a final report using scientific typesetting tools.
- Work as an integral part of a team, while making individual suggestions and developing communication skills.
- Construct complex arguments and communicate them in a clear manner through written, graphical, and oral forms.
- Expand own understanding, knowledge and skills independently and critically evaluate own accomplishments.
- Organize and plan their own work independently and make decisions depending on circumstances.

COURSE INFORMATION

The programme has the following structure:

Course Type	1st Semester	2nd Semester	3rd Semester
Compulsory Courses	Economic Principles I (15 ECTS)	Economic Principles II (15 ECTS)	Economic Theory I (10 ECTS)
	Mathematical Methods I (5 ECTS)	Mathematical Methods II (5 ECTS)	Econometric Theory and Practice I (5 ECTS)
	Statistical Theory I (5 ECTS)	Statistical Theory II (5 ECTS)	Finance I (5 ECTS)
Elective Courses		General Course of University Education (10 ECTS)	Comparative Economics (5 ECTS)
			Labour Economics (5 ECTS)
			Behavioural and Experimental Economics (5 ECTS)
			General Course of University Education (5 ECTS)
Course Type	**4th Semester**	**5th Semester**	**6th Semester**
Compulsory Courses	Economic Theory II (10 ECTS)	Applied Microeconomics (5 ECTS)	Bachelor Thesis (15 ECTS)
	Econometric Theory and Practice II (5 ECTS)	Applied Macroeconomics (5 ECTS)	
	Finance II (5 ECTS)	Applied Finance (5 ECTS)	
	Computing and Data Analysis (5 ECTS)	Summer Internship (15 ECTS)	
	Further Quantitative Methods (5 ECTS)		

Elective Courses			Panel Data Econometrics (5 ECTS)
			Big Data Analysis (5 ECTS)
			Time Series Analysis (5 ECTS)
			International Macroeconomics and Finance (5 ECTS)
			Industrial Organization (5 ECTS)
			Financial Markets (5 ECTS)

GRADUATION REQUIREMENTS

Quantitative Economics undergraduate studies are completed with public defence of Bachelor Final Thesis.

EXAMINATION AND ASSESSMENT REGULATIONS

In most subjects, cumulative scoring (final accumulation of work results at the end of a semester) is being used to ensure active student work and impartial study result evaluation. In applying the cumulative scoring method (oral, written testing, presentation, case analysis, projects (individual and collective), report, discussion, critical analysis of a research article, etc.), student's acquired knowledge and completed assignments throughout a semester are evaluated. Each study subject is concluded with a final exam or final test. Exam are performed either in written or written/oral form. Student knowledge is evaluated on the scale of 1-10 (1- very poor, 10-excellent).

ENTRY REQUIREMENTS

- Grade in mathematics ≥8 (10 point grading scale) (≥B)
- IELTS 5.5+, iBT TOEFL 65+
- Admission interview

APPLICATION AND SELECTION REQUIREMENTS

- Each applicant is required to have a secondary school diploma or its equivalent
- The selection criteria are based on the weighted average of relevant grades recorded in the student's transcript of academic records.
- If your qualification and motivation match the programme, you will receive a take-home admission test, and if you pass it, you will be invited for an interview with the programme committee.

Academic contact	Admission contact
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