

Incoming student mobility

UNIOS University Unit: DEPARTMENT OF MATHEMATICS

COURSES OFFERED IN FOREIGN LANGUAGE FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS

Department or Chair within the UNIOS Unit	Department of Mathematics
Study program	<i>Graduate university study programme in mathematics (Master level)</i> Branches: <ul style="list-style-type: none"> • <i>Financial Mathematics and Statistics</i>
Study level	Graduate (master)
Course title	Analysis of Company Business
Course code (if any)	E001
Language of instruction	English
Brief course description	<p>Syllabus.</p> <ol style="list-style-type: none"> 1. What does it mean to make business analysis. Quantitative and qualitative approach to business analysis. Application of the analyses in practical situations. 2. Standardized financial statements. Balance sheet. Income statement. Cash flow. The statement of retained earnings. The application in practical situations. 3. Financial analysis. Horizontal analysis. Vertical analysis. Liquidity analysis. Leverage analysis. Turnover analysis. Profitability analysis. DuPont system. 4. Business risk analysis. Ways of assessing risk. Some of the known models for business risk assessment. Altman z-score. Zmijewski model. Kralicek quicktest. 5. Long-term financial planning. Methods of long-term planning. The percentage of sales approach. Application of the analyses in practical situations. 6. Time value of money. Present value. Future value. 7. Sources of financing. Traditional sources of financing. Modern sources of financing. Financing with respect to the life cycle stage. 8. Capital budgeting. Net present value. Discounted payback. The

ERASMUS+

EU programme for education, training, youth and sport

	<p>internal rate of return.</p> <p>9. Business intelligence. Business intelligence approach to business analysis. Using business intelligence for business analysis – AlphaBI. Application in practical situations.</p> <p>10. Short-term finance and planning. The operating cycle and the cash cycle. The cash budget. The application in practical situations.</p>
Form of teaching	Consultative teaching.
Form of assessment	The final grade is formed as the average score based on the following grades: (i) activities in solving practical problems and tasks, (ii) homework, (iii) evaluation of 3 mid-term exams. Each mid-term exam consists of a practical assignment and some theoretical issues. The last mid-term exam covers teaching materials from the previous mid-term exams, and as such it is the final exam of the course.
Number of ECTS	4
Class hours per week	2+1+1
Minimum number of students	
Period of realization	Winter semester
Lecturer	<i>Nataša Šarlija</i>