

# INTRODUCTION TO ECONOMETRICS

## 1. MODULE SUMMARY

### Aims and Summary

This course aims at teaching students theoretical and applied econometrics. Students will learn different econometric models and how to apply them when working with economic data.

### Module Size and credits

<b>ECTS points</b>	5
<b>Total student study hours</b>	125
<b>Number of weeks</b>	12
<b>School responsible</b>	Lazarski University, Faculty of Economics and Management
<b>Academic Year</b>	2021-2022

### Entry Requirements (pre-requisites and co-requisites)

Mathematics, Statistics

### Composition of module mark (including the weighting of components)

Coursework, 100%

### Pass requirements

To pass the course a student must score at least 40% of the overall weighted average and not less than 35% for each assessment component (i.e. coursework and final exam).  
Re-assessment: coursework component and/or examination as appropriate.

### Course stages for which this module is mandatory

MSc International Business Economics, year 1

## 2. TEACHING, LEARNING AND ASSESSMENT

### Intended Module Learning Outcomes

By the end of the course, students should be able to:

1. Generate and use basic graphical and numerical descriptive methods.
2. Apply basic estimation and testing procedures.
3. Prepare and use basic methods of the analysis of correlation and causation.
4. Conduct simple and multiple regression analyses.
5. Critically evaluate statistical studies.

6. Translate and communicate the results of statistical analyses to management.
7. Manage the statistical problem-solving process.

**Indicative Content:**

1. Introduction to Econometrics
2. Data acquisition and management
3. Data summary measures
4. Probability concepts
5. Simple Linear Regression Model (SLR). OLS-estimation
6. Multiple Linear Regression Model (MLR): two explanatory variables
7. Variables Transformations in Regression Analysis
8. Dummy Variables
9. Problems in the linear regression model

**Method of Assessment (normally assessed as follows)**

Coursework, 100%, will assess all learning outcomes

**3. MODULE RESOURCES**

**Essential Reading**

**TEXTBOOK:** D.N. Gujarati, Basic Econometrics, Mcgraw-Hill; 4th edition; J. Wooldridge, Introductory Econometrics, South-Western College Pub, 5th edition.

**Recommended Reading**

W Greene, Econometric Analysis, Palgrave, 5<sup>th</sup> Edition

**Required Equipment** None.

**4. MODULE ORGANISATION**

**Module leader**

**Name** Mgr Iana Okhrimenko

**E-mail** [iana.okhrimenko@lazarski.pl](mailto:iana.okhrimenko@lazarski.pl)

**Length and month of examination**

120 minutes in January

## APPLIED FINANCIAL ANALYSIS

### 1. MODULE SUMMARY

#### Aims and Summary

The course main aim is to provide students who have not undergone formal training in financial management at the undergraduate level with a basic knowledge of financial management concepts and techniques. The course should prepare students for the business finance portion of their MSc course including but not limited Corporate Finance Course. Students are expected to learn or improve their knowledge of company's financial statement analysis, learn basis of capital budgeting and gain a principal understanding of the trade-off between risk and return.

#### Module Size and Credits

<b>ECTS points</b>	5
<b>Total student study hours</b>	125
<b>Number of weeks</b>	12
<b>School responsible</b>	Lazarski University, Faculty of Economics and Management
<b>Academic Year</b>	2021-2022

**Entry Requirements ( pre-requisites and co-requisites)** N/A

**Exclude Combinations** None

#### Composition of module mark ( including weighting of components)

Final Exam, 60%

Coursework, 40%, composed of individual project

#### Pass Requirements

To pass the course a student must score at least 40% of the overall weighted average and not less than 35% for each assessment component ( i.e. coursework and final exam).

Re-assessment :coursework component and/or examination as appropriate.

#### Special Features

None

## **Course stages for which this module is mandatory.**

MSc in International Business and Economics

**Course stages for which this module is a core option** None.

## **2. Teaching, Learning and Assessment**

### **Intended Module Learning Outcomes**

Upon completion of this course, students will be able to:

- Understand the goals of managerial finance
- Define most important from firm's perspective financial institutions and markets.
- Possess basic knowledge of financial analysis required to evaluate firm's both past financial performance and its prospects for the future. It involves an analysis of the firm's financial statements and its flow of funds.
- Be capable to use various measuring instruments to evaluate financial health of a business, including horizontal, vertical, and ratio analyses.
- Know how to prepare firm's budget and understand links between operating performance and financial results.
- Understand the trade-off between risk and return in finance

### **Indicative Content**

- Introduction: Profit Maximization versus Stockholder Wealth maximization
- The Financial Institutions and Markets.
- Sources of capital financing.
- Financial Statement Analysis : Horizontal Analysis of Balance Sheet, Profit and Loss and Cash Flow. Vertical Analysis of Profit and Loss Account, Ratios Analysis.
- The management of working capital
- Financial Planning and Budgeting. Methods of Financial Forecasting, Structure of the Budget(sales Budget, cost Budget). The Budget Balance Sheet.
- Measures of Return and Risk. Probability distribution, Measures of Risk.
- Principles of Project Finance

## Teaching and Learning

This module will be taught by means of lecture and self-directed study. Formative assessment: Comments will be given, and tutorial guidance will be provided for coursework and exam. Student activity and time spent on each activity comprise:

<b>Guided</b>	0 hours (0%)
<b>Lecture</b>	60 hours (48%)
<b>Seminar</b>	0 hours (0%)
<b>Self-guided</b>	65 hours (52%)
<b>Workshop</b>	0 hours (0%)
<b>Total</b>	125 hours

Method of Assessment( normally assessed as follows)

The intended learning outcomes will be assessed as follows:

The final exam, 60% will assess learning outcomes for all intended outcomes. Coursework, 40% composed of the written project ( 1500-1700 words), will assess learning outcomes 2,3,4. Individual marks will be awarded.

### 3. Module Resources:

#### Essential Reading

Jay K. Shim, Joel G. Siegel : Financial Management, Second Edition, McGraw-Hill, 1998.

Aswath Damodaran: Investment Valuation, John Wiley&Sons, 1996.

### 4.Module Organization

#### Module Leader

Name Dr. Tomasz Napiórkowski  
E-mail napiorkowski.tomasz@gmail.com

**Length and month of examination** 120

minutes In January

#### Expected teaching timetables slots

No timetable information available