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| Course Unit | Economics | Field of study | Economics |
| Bachelor in | Industrial Management and Engineering | School | School of Technology and Management |
| Academic Year | 2023/2024 | Year of study | 1 |
| Type | Semestral | Semester | 2 |
| Workload (hours) | 162 | Contact hours | T - 60 PL - 60 TC - 60 S - 60 E - 60 OT - 60 O - 60 |
| Level | 1-1 | ECTS credits | 6.0 |
| Code | 9104-754-1202-00-23 | | |

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Lídia Maria Galvão Rodrigues Praça

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Identify and interpret some of the microeconomic and macroeconomic basic concepts and general economic phenomena;
2. Understand the supply and demand market mechanisms and their economics applications and identify and discuss the public intervention that intends to regulate prices and transaction levels;
3. Identify, understand and discuss concepts related to the choice of different economic agents (consumer and producer);
4. Identify, calculate and discuss the production costs and the different efficient production strategies;
5. Identify specific market structures and the consequent firm strategies, related to production and prices, within each different structure;
6. Understand the goals of national accounts and measure the Gross Domestic Product;
7. Understand and analyse how real and monetary markets operate and how governments regulate them;
8. Understand, analyse and discuss economic phenomena like unemployment, inflation or stability policies.

Prerequisites

Before the course unit the learner is expected to be able to:
Understand and apply basic concepts of mathematic analysis.

Course contents

The economic science. Supply and demand basic theory. Consumer rational choices. Firm theory. Market structures. National accounts. Introduction to the basic macroeconomic concepts. Real and monetary markets. Unemployment, inflation and stability.

Course contents (extended version)

1. The economic science
 - Object and method
 - Microeconomics versus macroeconomics
 - The economic problem: the frontier of possibilities of production
2. Supply and demand basic theory
 - Individual and market demand
 - Individual and market supply
 - Equilibrium and adjustments
 - Elasticity of demand: price, income and cross elasticity; Supply elasticity: price elasticity
 - Public intervention: controlled (minimum and maximum) prices and taxes
3. Consumer rational choices
 - Utility function
 - Indifference curves
 - Budget restriction
4. Firm theory
 - Production function
 - Short-run costs
 - Long-run costs
5. Market structures
 - Perfect competition
 - Monopoly
 - Monopolistic competition
 - Oligopoly
6. National accounts
 - Economic circuit
 - Gross Domestic Product (GDP) measurement: production, expenditure and income
7. Introduction to the basic macroeconomic concepts
 - Income and expenditure
8. Real and monetary markets
 - The IS-LM model: real market (IS), monetary market (LM) and economic equilibrium
 - Monetary and fiscal policies
9. Unemployment, inflation and stability
 - Unemployment: definition, typology and measurement, and public policies
 - Inflation: definition, measurement and the origin of inflationary/deflationary processes
 - Unemployment and inflation trade-off: the Phillips curve
 - Stabilisation policies

Recommended reading

1. Dornbusch, R., Startz R., & Fischer S. (2013). Macroeconomia (11ª ed.). McGraw-Hill.
2. Frank, R. (2013). Microeconomia e Comportamento (8ª ed.). McGraw-Hill.
3. Gomes, O., Sousa, M. E., & Barradas, R. (2019). Análise Económica - conceitos e exercícios resolvidos (4ª ed.). Edições Sílabo.
4. Louça, F. Amaral, J. F., Santos, S., Fontainha, E., Ferreira, C., & Caetano, G. (2007). Introdução à Macroeconomia (2ª ed.). Escolar Editora.
5. Samuelson, P., & Nordhaus, W. (2011). Economia (19ª ed.). McGraw-Hill.

Teaching and learning methods

Teaching and learning methods comprise: (i) lectures with a combination of classroom exposition of theoretical concepts and individual and group discussion of case-studies; (ii) practical work to solve economic exercises and problems.

Assessment methods

1. Alternative 1 - (Regular, Student Worker) (Final)
 - Intermediate Written Test - 50%
 - Final Written Exam - 50%
2. Alternative 2 - (Student Worker) (Final, Supplementary, Special)
 - Final Written Exam - 100%
3. Alternative 3 - (Regular) (Supplementary, Special)
 - Final Written Exam - 100%

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

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| Lídia Maria Galvão Rodrigues Praça | Joaquim Agostinho Mendes Leite | António Jorge da Silva Trindade Duarte | José Carlos Rufino Amaro |
| 22-02-2024 | 27-02-2024 | 13-03-2024 | 16-03-2024 |