Syllabus

1. Programme information

1.1. Institution	THE BUCHAREST UNIVERSITY OF ECONOMIC STUDIES
1.2. Faculty	Economic Cybernetics, Statistics and Informatics
1.3. Departments	Department of Economic Informatics and Cybernetics
1.4. Field of study	Economic Cybernetics, Statistics and Informatics
1.5. Cycle of studies	Bachelor
1.6. Education type	Full-time
1.7. Study programme	Statistics and Economic Forecasting
1.8. Language of study	Romanian
1.9. Academic year	2021-2022

2. Information on the discipline

2.1. Name	**Quantitative Macroeconomics**								
2.2. Code	**21.0204IF2.2-0006**								
2.3. Year of study	**2**	2.4. Semester	**2**	2.5. Type of assessment	**Exam**	2.6. Status of the discipline	**Obligatoriu**	2.7. Number of ECTS credits	**4**

2.8. Leaders	Lectures (C)	**Prof.univ dr. MANAFI Ioana**	ioana.manafi@csie.ase.ro
	Seminars (S)	**Prof.univ dr. MANAFI Ioana**	ioana.manafi@csie.ase.ro

3. Estimated Total Time

3.1. Number of weeks	14.00		
3.2. Number of hours per week	4.00	of which	
		Lectures(C)	2.00
		Seminars(S)	2.00
3.3. Total hours from curriculum	56.00	of which	
		Lectures(C)	28.00
		Seminars(S)	28.00
3.4. Total hours of study per semester (ECTS*25)	100.00		
3.5. Total hours of individual study	44.00		
Distribution of time for individual study			
Study by the textbook, lecture notes, bibliography and student's own notes	16.00		
Additional documentation in the library, on specialized online platforms and in the field	4.00		
Preparation of seminars, labs, assignments, portfolios and essays	14.00		
Tutorials	2.00		
Examinations	2.00		
Other activities	6.00		

4. Prerequisites

4.1. of curriculum	
4.2. of competences	

5. Conditions

for the Lectures(C)	Classroom (minimum 100 places) with PC, videoprojector, screen, board and writing instruments
for the Seminars(S)	Classroom (minimum 25 places) with board, writing instruments and computers with Macroeconomics specialized software

6. Acquired specific competences

Professional	C2	Organizing and participating to statistical surveys

7. Objectives of the discipline

7.1. General objective	Students initiation in basic concepts of macroeconomics; macroeconomic policies building
7.2. Specific objectives	1. Knowledge of basic macroeconomic concepts and macroeconomic variables relationship 2. To project, to construct, to test and to validate macroeconomic models. 3. To determine, evaluate and inter-conditioning main macroeconomic aggregates. 4. To know macroeconomic relationship between inflation and unemployment, aggregate demand and aggregate supply, aggregate demand and budget deficit, international influence on macroeconomic equilibrium. 5. Fundament macroeconomic policies: fiscal policies, monetary policies, budgetary and mixed policies in order to integrate Romania in E.U.

8. Contents

8.1. Lectures(C)		Teaching/Work methods	Recommendations for students
1	Macroeconomic modelling basic concepts.	Oral presentation and multimedia	
2	Macroeconomic modelling principles.	Oral presentation and students interaction	
3	Main macroeconomic aggregates: construction, evaluation, correlations and fundamental proportions.	Studycase debate	
4	Market mechanism: Neokeynesist equilibrium model on services and good market – IS model	University lecture	
5	Market mechanism: Neokeynesist equilibrium model on monetary market and labour market. LM model. Markets equilibrium.	University lecture and studycase	
6	External sector influence on macroeconomic equilibrium. International trade, protectionist policies analysis	University lecture	
7	External sector influence on macroeconomic equilibrium. Exchange rates and balace of payments. Mundell-Fleming model.	University lecture and studycase	
8	Macroeconomc analysis af aggregate demand, aggregate supply and there inter-dependencies.	University lecture and multimedia	
9	Macroeconomic analysis of inflation and unemployment.	University lecture and studycase	
10	Consumption and consumption demand models	University lecture	
11	Business cycles: definition, main indicators, economical and political cycles.	University lecture and studycase	
12	Business cycles: active and passive anti-cyclic policies. National and international crisis.	University lecture and studycase	
13	Economic growth and European integration.	University lecture and studycase	
14	Fiscal, budgetary, monetary and mixed policies	University lecture and studycase	

Bibliography

- Țigănescu I.E., Roman, M. , Macroeconomie. O abordare cantitativă, Economica, Bucuresti, 2005
- Mankiw, N.G. , Macroeconomics The 5-th edition , Worth Publishers , New York, 2002
- Roman, M.D., Popescu, M.E. Manafi, I., Delcea, C. , Macroeconomie cantitativa. Teorie si aplicatii, ASE, Bucuresti, 2017

8.2. Seminars(S)		Teaching/Work methods	Recommendations for students
1	Goods and services market models. IS model.	Problem solving and economic situation debate	
2	Investments and investments evaluation. Okun law.	Problem solving and economic situation debate	
3	Macroeconomic indicators determination: GDP, GNP, AV, BAV, NAV. Using Statistical Yearbook for macroeconomic analysis	Problem solving and economic situation debate	
4	Seminar themes presentation, group project assignation.	Presentation	
5	Monetary market models. LM model.	Problem solving and economic situation debate	
6	Market equilibriuem models. IS-LM model.	Problem solving and economic situation debate	
7	Labour market equilibrium	Problem solving and economic situation debate	
8	Test		
9	External sector equilibrium models. Exchange rates determination.	Problem solving and economic situation debate	
10	Balance of payments. Mundel Fleming model application.	Problem solving and economic situation debate	
11	Consumption models.	Problem solving and economic situation debate	
12	Business cycles indicators. Monetary and fiscal policies used to influence business cycles. Macroeconomic policies for recovering economies.	Problem solving and economic situation debate	
13	One sector and multi sector growth models.	Problem solving and economic situation debate	
14	Project evaluation		

Bibliography

- Țigănescu I.E., Roman, M. , Macroeconomie. O abordare cantitativă, Economica, Bucuresti, 2005
- Roman, M.D., Popescu, M.E. Manafi, I., Delcea, C. , Macroeconomie cantitativa. Teorie si aplicatii, ASE, Bucuresti, 2017

9. Corroboration of the contents of the discipline with the expectations of the representatives of the epistemic community, of the professional associations and representative employers in the field associated with the programme

- Independent and critical thinking analysis of economic and social life
- Classical macroeconomic knowledge, analysis and methods used in scientific research, journalism, bank or government departments analysis departments.
- Economic and social life study cases explained by macroeconomic methods.

10. Assessment

Type of activity	Assessment criteria	Assessment methods	Percentage in the final grade
10.1. Seminars(S)	To understand and to know macroeconomic models and methods	Test	10.00
10.2. Seminars(S)	Creative applying of knowledge	essay	20.00
10.3. Seminars(S)	The capacity to develop logical reasoning and macroeconomic analysis in economics.	Oral evaluation	10.00
10.4. Final assessment	Macroeconomic specific notions study. Appling macroeconomic methods to solve case studies and problems	Writted Exam online/offline	60.00
10.5. Modality of grading	Whole notes 1-10		

10.6. Minimum standard of performance	C1. Knowledge of macroeconomic mechanism, data presentation and modelling principles. C2. Knowledge of macroeconomic basics: indicators and determination. C3. Knowledge of basic neo-keynesist models: IS, LM and problem solving on IS-LM model. C4. Knowledge of international trade principles, exchange rates determination and BP components. C5. Aggregate demand and aggregate supply determination. Relationship with inflation. C6. Inflation and unemployment indicators. C7. Knowledge of three consumption models. C8. Knowledge of business cycles indicators and of active and passive macroeconomic policies. C9. Knowledge of three growth models. C10. Knowledge of applyng conditions for fiscal, monetary and mixed policies. Validating seminar evaluation is conditioned by minimum 5 grade obtained at the final exam.

Date of listing,
11/13/2026

Signature of the discipline leaders,

Date of approval in the department

Signature of the Department Director,