

COURSE (MODULE) DESCRIPTION

Course title	Code				
Applied Macroeconomics					
Staff	Department				
Coordinator: Dr Eglė Jakučionytė	Faculty of Economics and	Business Administration			
Other(s): Dr Mariarosaria Comunale, Dr Patrick					
Grüning, Dr Marius Jurgilas, Dr Milda Norkutė					

Study cycle	Course type
First (Bachelor's)	Compulsory

Form of implementation	Period of implementation	Language of instruction
Face-to-face	Semester 5	English

Requirements for student							
Prerequisites: Mathematical Methods, Statistical Additional requirements (if any):							
Theory, Econometric Theory and Practice,							
Economic Principles II, Economic Theory II							

Number of ECTS credits	Student's workload	Contact hours	Individual work
5	130	34	94

Purpose of the course and competences developed

This course aims to present and analyze contemporary problems and policy issues in the macro economy. It will build on the foundations laid in the first year's principles course and it will also develop more fully the theoretical and analytical approaches presented in the second year's economic theory course.

This course provides (i) an introduction to some econometric methods which are broadly used in empirical macroeconomics, especially forecasting, (ii) an introduction to macroeconomic models and related concepts that are relevant for analyzing macroeconomic policies.

Learning outcomes	Teaching methods	Assessment methods			
1.1. Have acquired knowledge in	Lectures, tutorials with	Written exam (50%)			
macroeconometric analysis and is able to	empirical content through	Five assignments (50%)			
apply the methods discussed in classes to	illustrations in EViews and R (or				
treat macroeconomic data.	STATA)				
1.2; 2.2 Undertake applied research to	Lectures, tutorials, group and				
produce macroeconomic forecasting.	individual work on				
	macroeconomic topic.				
3.2; 4.2 Use and interpret mathematical	Tutorials and assignments.				
models describing macroeconomic	r utoriais and assignments.				
relations and present them in class.					
2.1; 3.1 Critically evaluate macroeconomic					
policy, appreciate importance and	Lectures, tutorials, discussions.				
limitations of macroeconomic theory to					
inform policy choices.					
Course themes	Contact / Individual work: time and assignments				

	Lectures	Tutorials	Seminars	Practical classes	Laboratory work	Practice	Contact hours	Individual work	Assignments due date
Introduction to macroeconomic forecasting. Macroeconomic variables and their importance in decision making. Backcasting, nowcasting, forecasting. Forecasting at short through long horizons. Point, interval and density forecasts (by Dr Milda Norkutė)	2						2	4	Main readings: D Ch. 3
Selecting forecasting models. Evaluating and comparing forecast accuracy. Using forecasting methods to forecast the real GDP, interest rate, inflation, unemployment rate and other macroeconomic variables (by Dr Milda Norkutė)	4						4	16	Main readings: D Ch. 9-12 Assignment 1
Real business cycle (RBC) models (by Dr Patrick Grüning)	3						3	8	Main readings: Romer Ch. 5 CS Ch. 8, 16 SW Ch. 14-16
Fiscal policy and fiscal multipliers (by Dr Patrick Grüning)	3						3	8	Main readings: Romer Ch. 12 Romer and Romer (2010) Sheremirov and Spirovska (2015) Assignment 2
Optimal monetary policy, the dynamic inconsistency of low-inflation monetary policy, empirical applications (by Dr Marius Jurgilas)	6						6	14	Main readings: Romer Ch. 11 and specified research articles Assignment 3
Basic mechanism of financial crises, the role of housing (by Dr Eglė Jakučionytė)	6						4	12	Main readings: CS Ch. 3 and 6, Mian and Sufi (2009), Adelino, M., Schoar, A., & Severino, F. (2016)
Overview of macroprudential policies, case studies and impact evaluation (by Dr Eglė Jakučionytė)	4	2					8	18	Reading specified research articles Assignment 4

The trilemma and Optimum Currency Areas. The Economic and monetary union and convergence. Policy coordination (by Dr Mariarosaria Comunale)	6				6	14	Main readings: BW (Ch. 13,15 and 16) & DeG (Ch. 1-5) Assignment 5
Total	34	2			36	94	

Assessment strategy	Share in	Time of	Assessment criteria
	%	assessment	
Written exam (180	50	End of spring	The final exam will consist of both longer
minutes)		semester	open questions in which students have to
			show their analytical capabilities and of
			shorter questions simply testing students'
			knowledge. The final exam will test the
			material from the whole course.
Five assignments (one	50	Throughout the	Students will receive five homework
per lecturer)		semester	assignments asking them analytical questions
			about the material covered in class and
			questions asking them to connect the studied
			material to the real world.

Author	Published in	Title			ishing house nternet site	
Required reading						
		be made available to all students	•	D 1 D 1		
Romer, D.	2012	Advanced Macroeconomics		Fourth Ed	McGraw- Hill	
Carlin, W. and D. Soskice (Referred to as CS)	2014	Macroeconomics: Imperfer Institutions, Instability and the Financial System	ctions,	First Editi	Oxford University Press	
Stock, J. H. and M. W. Watson (Referred to as SW)	2014	Introduction to Econometrics	Third Edit	tion	Pearson Education	
Baldwin, R. and C. Wyplosz (BW)	2019	The Economics of Eur Integration	ropean	Sixth Edit	ion	McGraw- Hill
Diebold, F. X. (Referred to as D)	2007	Elements of Forecasting		Fourth Ed	ition	Thomson South- Western
Hanson, S. G., Kashyap, A. K., and Stein, J. C.	2011	A macroprudential approach to financial regulation		Journal of Economic Perspectiv 5(1), 3-28	ves, 2	
Mian A, Sufi A.	2009	The consequences of mortgage expansion: evidence from the U mortgage default crisis		Quarterly Journal of Economic 124(4):144 96	s,	
Adelino, M., Schoar, A., & Severino, F.	2016	Loan originations and defaults mortgage crisis: The role of the middle class		Review of Financial Studies, 29 (7), 1635-	9	
Romer, C. D.; Romer, D. H.	2010	The macroeconomic effects of t changes: Estimates based on a r measure of fiscal shocks		NBER Working I 13264	Paper	

Sheremirov, V.; Spirovska, S.	2015	Output Response to Government Spending: Evidence from New	Fed Boston Working Paper	
Supplementary readin	g	International Military Spending Data	No. 15-9	
De Grauwe, P. (Referred to as DeG)	2020	Economics of Monetary Union	Thirteenth Edition	Oxford University Press