

SYLLABUS

Name of the course:	Energy Economics and Climate Change Policy			
Teacher:	Valeria Costantini			
University / organisation:	University Roma 3 - Department of Economics			
Language of teaching:	English			
ECTS:	9			
Semester (S1, S2, S3 or S4):	<input type="checkbox"/> S1	<input checked="" type="checkbox"/> S2	<input type="checkbox"/> S3	<input type="checkbox"/> S4
Teaching method(s):	<input checked="" type="checkbox"/> Lecture courses		<input checked="" type="checkbox"/> Flipped classroom	
	Other: _____			
Type(s) of evaluation:	<input checked="" type="checkbox"/> Sitting exam		<input checked="" type="checkbox"/> Written report	
	<input checked="" type="checkbox"/> Oral defence		<input checked="" type="checkbox"/> Group project	
	Other / comments: _____			
Expected deadline(s) for the evaluation(s)				
Expected date of final results:				
Summary of the content:	<p>Aim of the course is to provide the basis for an understanding of the working of energy markets and an economic analysis of the tools that can be used to regulate the market, reduce the impact on the environment, improve the reliability of energy provision and promote economic growth by stimulating technical innovation. The course consists of two main modules, the first devoted to the analysis of energy production and markets, the second focussing on Climate change policies</p> <p>MODULE I</p> <p><u>The market for energy</u></p> <p>1. The global system</p> <ul style="list-style-type: none"> • 1.1 Characteristics of energy demand • 1.2 Energy sources. The production chain, the markets, the prices • 1.3 Energy supply <p>2. Fossile sources</p> <ul style="list-style-type: none"> • 2.1 Production • 2.2 Exhaustible resources: criteria of intertemporal choices • 2.3 Elements of geopolitics of energy • 2.4 the reliability of energy supply <p>3. Renewable resources</p>			

SYLLABUS

	<ul style="list-style-type: none"> • 3.1 Production from renewable sources • 3.2 production of electric energy from renewable resources • 3.3 the market for biofuels <p>4. Electric energy</p> <ul style="list-style-type: none"> • 4.1 some basic concepts • 4.2 production and distribution • 4.3 the market <p>MODULE II</p> <p>Economics of climate change 1</p> <ol style="list-style-type: none"> 1. Climate change and international negotiations <ol style="list-style-type: none"> 1.1 Climate change 1.2 The United Nations General Agreement on Climate Change 1.3 The Kyoto protocol 1.4 mitigation policies and flexible tools 1.5 CDM mechanisms and the role of developing countries 1.6 Post-Kyoto negotiations and the new mechanisms of carbon finance 1.7 Evaluation of economic damage from climate change <p>Economics of climate change 2</p> <ol style="list-style-type: none"> 2.1 Market-based mitigation policies 2.2 Echange mechanisms amd permits to pollute 2.3 interaction between environment protection and competitività: the case of carbon leakage 2.4 EU policies concerning climate change and energy <p>Technical change in the energy sector and reduction of emissions which impact on climate change 3</p>
Indicative list of lectures:	
Short bibliography:	<p>Bhattacharyya S.C. (2011), Energy Economics: Concepts, Issues, Markets and Governance, UK: Springer-Verlag. Chapters: 1, 2, 3 (pp. 41-61), 4 (pp.77-81), 5 (sect. 5.1.1-5.1.5), 6 (excl. 6.5), 7 (Escluse appendici). IEA (International Energy Agency) (2017), World Energy Outlook 2017. Chapters: 1-2-3-4-5-6-7.</p> <p>IEA (International Energy Agency) (2016), Energy Efficiency Indicators. (pages 5-10).</p> <p>IPCC (2014), Climate Change 2014 - Synthesis Report. (pages 1-31).</p> <p>IPCC (2014), Climate Change 2014 - Impacts, Adaptation and Vulnerability Part A. (pages 1-32).</p> <p>IPCC (2014), Climate Change 2014 - Mitigation of Climate Change (pages 41-107).</p>

SYLLABUS

	Tol R.S.J. (2014), Climate Economics: Economic Analysis of Climate, Climate Change and Climate Policy, Edward Elgar Publ. Chapters: 1,2,3,4,5,6.
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