## Visiting Professors
### Academic year 2018/2019

**2nd term**

<table>
<thead>
<tr>
<th>COURSE TITLE</th>
<th>ENERGY ECONOMICS AND SUSTAINABILITY</th>
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<tbody>
<tr>
<td>Scientific area</td>
<td>Economic policy</td>
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<tr>
<td>Department of Economics and Statistics “Cognetti de Martiis”</td>
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<tr>
<td>Language used to teach</td>
<td>English</td>
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<tr>
<td>Teaching Commitment:</td>
<td>36 hours</td>
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**Course summary**

The course should provide fundamentals for understanding the functioning of economic and environmental dimensions of energy sources and energy technologies: (i) the economics of electricity, fossil and renewable energy sources; (ii) global dimensions of energy trade; (iii) different phases of the supply chain of energy sources: from mining to transport to wholesale and retail markets, considering both techno-economic and environmental implications.

Important issues to be covered include economic and environmental aspects, for each single energy commodity (crude oil, coal, natural gas, lng, biofuels, renewable energy from geothermal, solar and wind sources) and techno-economic approaches for modelling energy-environmental systems. Theoretical analysis should be complemented with case studies concerning the economic valuation of energy policies (taxes on/subsidies to energy commodities) and energy infrastructures (smart grids, gas pipelines) or scenarios of investment in low carbon technologies.

**Learning objectives**

Students should learn principles from the theory of environmental and natural resource economics as well as the implementation of existing policy and regulatory measures to energy markets. A second objective of the course is to familiarize students with some of the main energy policy and regulatory measures adopted in the EU. A third learning objective is developing a basic knowledge of the main sources of scientific, economic and environmental data, indicators and reports pertaining energy markets.

**Lab activities**

The presentation of cases of studies of economic assessment will be complemented by hands-on session with tools for cost benefit analysis of energy projects.

**Other activities besides the course: i.e. seminars and conferences addressed to PhD students and research fellows, dissemination conferences**

During his/her stay at the university of Turin, the visiting professor is expected to deliver at least one departmental seminar and a lecture addressed to doctoral students in economics. The subject would be of strategic interest also for students of the new doctoral programme in ‘innovation for the circular economy’.
Visiting Professor Profile
The ideal candidate has at least 4 years of professional (academic, research, policy making) activity in the field of energy economics; strong knowledge of real world European and global energy issues; a Ph.D. in economics or related discipline, majoring in energy/environmental issues; previous teaching experience, preferably at the graduate level. Scientific publications pertaining the course subject are an advantage.

Contact person at the Department
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