



<i>Code</i>	<i>Title</i>
2.1	Renewable Energy Financing & Modelling
<i>ECTS/Credits</i>	<i>Language</i>
3 ECTS	English

<i>Specific teaching Objectives of the course/Learning outcomes (Dublin Descriptors)</i>
<i>a. Knowledge and Understanding</i>
The main objective of the course is to enhance students' ability to identify the various actors and funding products for renewable energy businesses and projects.
<i>b. Applying knowledge and understanding</i>
After attending the course, the students will increase their knowledge of available funding options for renewable energy and they will be able to evaluate critically renewable energy projects.
<i>c. Making Judgements</i>
Students will increase their understanding of the main investors and financing products for renewable energy businesses/projects in order to identify case by case the benefits of different finance models including microfinance and Islamic finance models.
<i>d. Communication skills</i>
Students, through discussions in the classroom and exercises, will acquire tools for critical analysis of empirical evidence and communication skills. They will also learn how to structure and present their own ideas in class discussions and class presentations.
<i>e. Learning skills</i>
Students who pass the exam learned methods of analysis that will allow them to tackle other economic courses and to understand financing opportunities that can prepare them for having their project financed in the formal markets.



<i>Main topics</i>			
	Estimated number of hours		
	Lectures	Laboratory	Tutorial
A-Principles of Financial modeling			
1. Pricing models			
2. Cost models			
3. Revenue model			
B-Financial reporting and analysis			
1. Financial reporting and analysis: an overview			
2. Practical exercise / understanding			
C-Introduction to renewable energy financing			
1. Introduction to Renewable Energy			
2. Project financing and project evaluation for Renewable Energy and Energy Efficiency			
3. Incentive schemes in renewable energy (operational costs, depreciation and tax calculation)			
D-Sources of finance available			
1. Debt and equity financing			
2. Impact Capital and Venture Capital ,Venture Philanthropy for entrepreneurship			
3. Business Angels, accelerators, incubators			
4. Crowd-funding, Corporate Acquisitions			
5. Academic Start-ups and spin-offs			
E-Innovations in financing renewable energy businesses			
1. Financial markets for renewable energy (Climate finance)			
2. International climate finance options			
3. Islamic finance and microfinance for RE			
F- Risk management in renewable energy finance			
1. Renewable energy financial reporting structure			
2. Measures of performance			
3. Introduction to the definition of a financial planning and cash flows			
4. Case studies to facilitate understanding of financial issues focusing on entrepreneurial ventures			
Laboratory			
1. Project Risk in Renewable energy			
2. Incentives and barriers to Investment in renewable energy			
3. Government Policy and Support Schemes – UN (SDG's)			



Course description

The main objective of the course is to enhance the understanding of different financial actors and products (equity, loan, bond, leasing structures, guarantees, Islamic financing structure) in Renewable Energy. The training shall equip students with the latest information on financing all types of renewable energy projects to allow them to continue to participate successfully in the Renewable Industry, both in Africa and globally. The course analyses also the role of microfinance in increasing the access to RE micro & small enterprises (MSEs), enhancing the productivity and the business opportunities of MSEs through energy-efficient solutions.

