		Teaching Guide			
	Identifying Data 2022				
Subject (*)	Energy Politics and Investments A	nalysis	Code	730547004d	
Study programme	Máster Universitario en Eficiencia	Enerxética e Sustentabilida	de (a distancia)	<u>'</u>	
		Descriptors			
Cycle	Period	Year	Туре	Credits	
Official Master's Degre	e 1st four-month period	First	Obligatory	4.5	
Language	SpanishGalician				
Teaching method	Non-attendance				
Prerequisites					
Department	EconomíaEmpresa				
Coordinador	Iglesias Gomez, Guillermo	E-ma	guillermo.iglesi	as@udc.es	
Lecturers	Iglesias Gomez, Guillermo	E-ma	guillermo.iglesi	as@udc.es	
	Llano Paz, Fernando de		fernando.de.lla	no.paz@udc.es	
Web	http://campusvirtual.udc.gal/login/ii	ndex.php	'		
General description	The subject will begin giving a pan	oramic vision of the outline	of the energy sector, maki	ng special emphasis in specific	
	energy regulation and energy mark	cets. In the second part, en	ergy project evaluation will	be exposed, both in terms of	
	theoretical perspective and practic	al. The entire subject will be	e adapted for distance lear	ning with the use of the virtual	
	campus, platforms such as Teams	and other ICT.			

	Study programme competences
Code	Study programme competences
A1	CE1 - Apply methodologies and regulations for efficient energy management
A2	CE2 - Analyze and implement energy saving and efficiency measures in the industrial, tertiary and residential sectors
A4	CE4 - Apply data analysis methods for the creation of efficient energy systems
A5	CE5 - Analyze energy consumption and its associated costs
B4	CB9 - That students know how to communicate their conclusions and the knowledge and ultimate reasons that support them to
	specialized and non-specialized audiences in a clear and unambiguous way
В7	CG2 - Develop analysis and synthesis skills; encourage critical discussion, defending arguments, and drawing conclusions
В8	CG3 - Incorporate their own vocabulary to express themselves accurately in effective communication, both written and oral
B15	CG10 - Know the current legislation and regulations applicable to the renewable energy and energy efficiency sector
B16	CG11 - Evaluate the application of emerging technologies in the field of energy and the environment
C2	CT2 - Master the oral and written expression and comprehension of a foreign language
C5	CT5 - Understand the importance of entrepreneurial culture and know the means available to entrepreneurs
C6	CT6 - Gain life skills and healthy habits, routines, and lifestyles
C9	CT9 - Have the ability to manage time and resources: develop plans, prioritize activities, identify criticism, set deadlines and meet them

Learning outcomes			
Learning outcomes	Stud	y progra	ımme
	CO	mpetend	ces
Analyze the different economic-financial conditions and associated risk scenarios in a renewable energy project	AC1	BC7	CC2
	AC2	BC8	CC5
	AC4	BC15	CC6
	AC5		CC9
Understand the scope of a financial operation and the meaning of the three variables involved: capital, time and interest	AC1	BC4	CC5
	AC4	BC7	CC9
		BC8	
		BC16	

Identify the fundamental aspects in an investment in order to find the optimal structure that allows the financing of a project	AC1	BC4	CC5	
	AC4	BC7	CC9	
		BC8		
		BC16		

	Contents
Topic Sub-topic	
Section 1: The general context of energy problem	Introduction: Energy Sector
	Energy policy
	Energy markets
	Energy and environment
	Renewable energy
Section 2: Project evaluation in energy sector	Introduction to basic Financial concepts: Project evaluation
	Selection of energy assets for power generation: Portfolio theory and Scenarios.
	Project evaluation of Renewable Energy Sources
	Project Finance

Planning			
Competencies	Ordinary class	Student?s personal	Total hours
	hours	work hours	
A2 A4 A5 B8 B16 C5	11	22	33
C6			
A1 A2 A4 A5 B4 B7	20	60	80
B8 B15 B16 C2 C5			
C6 C9			
A1 A4 A5 B4 B7 B8	1	8	9
B15 B16			
	3	0	3
	Competencies A2 A4 A5 B8 B16 C5	hours A2 A4 A5 B8 B16 C5 C6 A1 A2 A4 A5 B4 B7 B8 B15 B16 C2 C5 C6 C9 A1 A4 A5 B4 B7 B8 B15 B16	Competencies Ordinary class hours Student?s personal work hours A2 A4 A5 B8 B16 C5 C6 11 22 A1 A2 A4 A5 B4 B7 B8 B15 B16 C2 C5 C6 C9 20 60 A1 A4 A5 B4 B7 B8 B15 B16 1 8

	Methodologies
Methodologies	Description
Guest lecture /	This resource is employed by the teachers in theory sessions in order to explain conceptual issues.
keynote speech	
Case study	It will be proposed practical cases, that can involve the use of databases, additional bibliography or ICT, in each of the topics
	to improve the capacity of analysis and to value the development of the competencies which were pointed out.
Objective test	It will be a test-exam and exercises about basic topics of the subject.

	Personalized attention		
Methodologies	Description		
Case study	se study Through individual, or group tutoring, special difficulty issues will be discussed. Also partial-registration cases or exemption of		
assistance will be dealt with a specific programming agreed with the coordinator.			

Assessment			
Methodologies Competencies Description		Qualification	
Case study	A1 A2 A4 A5 B4 B7	The continuous evaluation will be established through the analysis of cases presented	60
	B8 B15 B16 C2 C5	by teaching staff to value the acquisition of the competencies.	
	C6 C9		



Objective test	A1 A4 A5 B4 B7 B8	Final exam about basic conceptual issues of the subject. It shall include as a minimum	40
	B15 B16	a test-exam. It will be developed in the official period of examinations.	

Assessment comments

The evaluation will follow the same criteria for the first opportunity as for the second.

In the situations of partial-time registration or assistance exemption, it will be established a special program and a system of delivery with the coordinator for the activities which cannot be realized in the classroom. If necessary, due to exceptional circumstances, the objective test at the second opportunity may be weighted 100% of the grade.

Fraudulent performance of tests or assessment activities, such as plagiarism, will directly lead to a mark of '0' in the subject of the corresponding exam session, thus invalidating any marks obtained in the other assessment activities.

	Sources of information
Basic	ECOFYS (2014). Design features of support schemes for renewable electricity. European CommissionEnergía y
	Sociedad (2016). Manual de la Energía.EWEA (2009). The Economics of Wind Energy. EWEAFigueroa, E. (2006). E
	comportamiento económico del mercado de petróleo. Ediciones Díaz de Santos. MadridIRENA (2015). Renewable
	power generation costs in 2014. IRENARendón, J. J. G.; Mesa, J. M. (2015). Precios y desempeño regulatorio en el
	pool eléctrico español. Documentos de Trabajo Economía y Finanzas-Centro de Investigación Económicas y
	Financieras, nº 15-1Yescombé, E.R. (2014). Principles of Project Finance. Academic PressLocalización en internet
	dalgunhas referencias:Energía y Sociedad (2016): Manual de la Energía, dispoñible en:
	http://www.energiaysociedad.es/tipo/manual-de-la-energia ECOFYS (2014): Design features of support schemes for
	renewable electricity, dispoñible en:
	https://ec.europa.eu/energy/sites/ener/files/documents/2014_design_features_of_support_schemes.pdf EWEA (2009)
	The Economics of Wind Energy, dispoñible en:
	http://www.ewea.org/fileadmin/files/library/publications/reports/Economics_of_Wind_Energy.pdfIRENA (2015):
	Renewable power Generation Costs in 2014, dispoñible en:
	http://www.irena.org/documentdownloads/publications/irena_re_power_costs_2014_report.pdf WEBS de institucións:
	Comisión Nacional de los Mercados y la Competencia (CNMC): Energía.
	https://www.cnmc.es/es-es/energ%C3%ADa/sobreenerg%C3%ADa.aspx Energía y sociedad.
	http://www.energiaysociedad.es/ European Commission Energy. http://ec.europa.eu/energy/ European Union by topic
	Energy. http://europa.eu/pol/ener/index_en.htm Figueroa, E. (2006). El comportamiento económico del mercado de
	petróleo. Ediciones Díaz de Santos. Madrid Ministerio de Industria, Energía y Turismo: Energía.
	http://www.minetur.gob.es/energia/es-ES/Paginas/index.aspx OMIE. http://www.omie.es/inicio
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Subjects that are recommended to be taken simultaneously
Subjects that continue the syllabus
Other comments

(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.