Ciclo Mestrado Oficial Idioma Modalidade docente Prerrequisitos Departamento Coordinación Profesorado Web Descrición xeral	Período 2º cuadrimestre Inglés Presencial Enxeñaría Naval e Industrial Munín Doce, Alicia Munín Doce, Alicia http://www.master-seas40.unina. The objective of this course is to the functioning of the maritime malogistics chain and that the intera principals of a port are explained reductions in the total transport of the Modifications to the content	Correo election in the port and with the ceven as hinterland transport.	hts of how d. Also, it	is the aim to expla	o earn money. In order to do so, ain that ships are part of a larger al. Next to that, also the working
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Web Descrición xeral	http://www.master-seas40.unina. The objective of this course is to the functioning of the maritime malogistics chain and that the intera principals of a port are explained reductions in the total transport of	provide the students the insignarkets needs to be understook ction in the port and with the even as hinterland transport.	hts of how d. Also, it other trans	v ships are used to is the aim to expla sport modes is vita	o earn money. In order to do so, ain that ships are part of a larger al. Next to that, also the working
Descrición xeral	The objective of this course is to the functioning of the maritime malogistics chain and that the interaprincipals of a port are explained reductions in the total transport of	provide the students the insignance arkets needs to be understood tion in the port and with the ceven as hinterland transport.	d. Also, it other trans	is the aim to expla	ain that ships are part of a larger
1 	the functioning of the maritime ma logistics chain and that the intera principals of a port are explained reductions in the total transport of	arkets needs to be understood ction in the port and with the c even as hinterland transport.	d. Also, it other trans	is the aim to expla	ain that ships are part of a larger
Plan de continxencia	- 1. Modifications to the content				
	- No changes will be made - 2. Methodologies - Teaching methodologies that ar - Supervised work - Teaching methodologies that ar - Mixed objective/subjective test: - Master class: carried out throug content in video format for later v - 3. Mechanisms for personalized - Email/MS Teams: Daily. Used to work being protected Moodle: Daily. According to the the rest of the group. - 4. Modifications in the evaluation of the oblining representation.	e modified using Microsoft Teams or equal high Microsoft Teams or equivalent iewing attention to students o make queries, request virtual needs of the students, who have	ent institut	tional application,	also leaving the students or thei

Competencias / Resultados do título		
Código	Competencias / Resultados do título	

Resultados da aprendizaxe					
Resultados de aprendizaxe			Competencias /		
	Result	ados do	título		
Capability to understand how the maritime sector is structured, how it is part of a more complex logistic system and how ships	AM6	BM1	CM2		
and ports are integrated within it.		BM2	CM4		
		ВМ3	CM5		
		BM4	CM6		
		BM5	CM7		
		BM6	CM8		
		BM7			
		BM11			

Contidos				
Temas	Subtemas			
Lesson 1	Main introduction lesson where the global maritime transport chain is explained. This			
	chain will include, maritime part of the transport, ports and the hinterland transport.			
	The main objective here is to show that a ship is part of a bigger transport chain. A			
	model (which has been developed by me) can also be offered to the students to make			
	some calculations. This could be part of the paper/ assignment.			
Lesson 2	Maritime lecture part 1: Economic organization of the shipping market. This will be a			
	based on Stopford (2006)			
Lesson 3	Maritime lecture part 2: Sub-markets & Down in shipping. Also this lecture will			
	be based on Stopford (2006)			
Lesson 4	Port lecture part 1: The organization of ports. What are ports, how do they function			
Lesson 5	Port lecture part 2: The organization of ports. What are ports, how do they function,			
	and what is the interaction with ships (bunkerings and provision of alternative fuels).			
Lesson 6	Hinterland lecture part 1: Port hinterland transport. In this lecture is explained how			
	cargo being shipped from ports to the hinterland and which transport modes can be			
	used (road, rail, IWT).			
Lesson 7	Hinterland lecture part 2: Modal choice, intermodal transport and hinterland			
	infrastructure.			
Lesson 8	Emission mitigation in maritime transport chains and the impact it has on both			
	shippers and vessel owners.			
	This course can include: A short introduction in the propulsion system of a vessel,			
	Investments in new (retofitable) technologies in deepsea vessels due to legislation,			
	Impact of the Environmental Efficiency Design Index (EEDI) of deepsea vessels on			
	CO2 emissions, Impact of the Emission Control Area at the North Sea on port			
	competition, Impact of the internalization of external cost on port competition.			

	Planificacio	ón		
Metodoloxías / probas	Competencias /	Horas lectivas	Horas traballo	Horas totais
	Resultados	(presenciais e	autónomo	
		virtuais)		
Sesión maxistral	A6 B4 B6 B7 B12 C4	18	18	36
	C5 C6			
Traballos tutelados	B3 B5 B8 C2 C7 C8	4	26	30
Proba mixta	B2	2	2	4
Atención personalizada		5	0	5
*Os datos que aparecen na táboa de planific	ación son de carácter orientati	ivo, considerando a h	eteroxeneidade do alur	nnado

Metodoloxías				
Metodoloxías	Descrición			
Sesión maxistral	Oral presentation complemented with the use of audiovisual media and the introduction of some questions aimed at students,			
	in order to transmit knowledge and facilitate learning			
Traballos tutelados	Supervised learning process aimed at helping students to work independently in a range of contexts (academic and			
	professional). Focused primarily on learning ?how to do things? and on encouraging students to become responsible for their			
	own learning.			
Proba mixta	Written test used for the assessment of learning, whose distinctive feature is the ability to determine whether or not the			
	answers given are correct. It is a rigorously developed measuring instrument that allows to assess knowledge, abilities, skills,			
	performance, aptitudes, attitudes, etc.			

Atención personalizada			
Metodoloxías	Descrición		
Sesión maxistral	Students will be able to solve their doubts through personalized tutorials. To contact the teaching staff, they may use email or		
Traballos tutelados	Teams.		

Avaliación				
Metodoloxías	Competencias /	ncias / Descrición C		
	Resultados			
Traballos tutelados	allos tutelados B3 B5 B8 C2 C7 C8 Group coursework: a research paper on a given topic for which a model can be given		40	
		to the students to make use of		
Proba mixta	oba mixta B2 The evaluation of the subject will be carried out through an exam where the		60	
		knowledge acquired by the student during the course will be assessed.		

Observacións avaliación

General EMJMD Sustainable Ship and Shipping SEAS 4.0 evaluation rules:

- Students will have only two oportunities to pass a course. If failing to do so, they may be forced to leave the degree.
- No part time or lecture attendance exemption are allowed in this degree.

Fontes de información



Bibliografía básica

- Stopford (2006). Maritime economics 3 edition.
- Aronietis Raimonds, Sys Christa, van Hassel Edwin, Vanelslander Thierry (2017). Investigating the bunkering choice determinants: the case of the port of Antwerp. Journal of shipping and trade
- Aronietis Raimonds, Sys Christa, van Hassel Edwin, Vanelslander Thierry (2016). Forecasting port-level demand for LNG as a ship fuel: the case of the port of Antwerp. Journal of shipping and trade
- van Hassel Edwin, Meersman Hilde, Van de Voorde Eddy, Vanelslander Thierry (2016). Impact of scale increase of container ships on the generalised chain cost. Maritime policy and management
- van Hassel Edwin, Meersman Hilde, Van de Voorde Eddy, Vanelslander Thierry (2016). North-South container port competition in Europe: the effect of changing environmental policy. Research in transportation business & the effect of changing environmental policy. Research in transportation business amp;
- Stevens Laurence, Sys Christa, Vanelslander Thierry, van Hassel Edwin (2015). Research in transportation business & the same; management.
- van Hassel Edwin (2017). The implementation and evaluation of the energy efficiency design index (EEDI): the future emission mitigation of three main shipping segments: C/WP6(2017)9. Paris. Organisation for Economic Co-operation and Development
- van Hassel Edwin, Vanelslander Thierry, Neyens Kris, Vandeborre Hans, Kindt Dominique, Kellens Stefa (2021). Reconsidering nearshoring to avoid global crisis impacts: application and calculation of the total cost of ownership for specific scenarios. Research in transportation economics
- van Hassel Edwin, Meersman Hilde, Van de Voorde Eddy, Vanelslander Thierry (2020). Impact of investing in new port capacity from a shipper and a shipowner perspective: the case of maasvlakte II. In Case studies on transport policy
- Oganesian Virzhiniia, van Hassel Edwin, Sys Christa, Vanelslander Thierry (2020). Container barge (un)reliability in seaports: a company case study at the port of Antwerp. International journal of shipping and transport logistics
- Meersman Hilde, Sutalo Nicolas, Van de Voorde Eddy, van Hassel Edwin, Vanelslander Thierry (2020). Belt and road: more competition between sea and rail? A generalized cost approach in Freight transport modeling in emerging countries. Kourounioti, Ioanna
- Mohseni Seyed Abolfazl, van Hassel Edwin, Sys Christa, Vanelslander Thierry (2019). Economic evaluation of alternative technologies to mitigate sulphur emissions in maritime container transport from both the vessel owner and shipper perspective. In Journal of Shipping and Trade

Bibliografía complementaria

Recomendacións

Materias que se recomenda ter cursado previamente

Materias que se recomenda cursar simultaneamente

Materias que continúan o temario

Observacións

To help in achieving a sustainable environment and to get the objective of number 5 action of the "Ferrol Green Campus Action Plan" (Healthy and environmentaly and socially sustainable research and teaching): The assignments to be done in this course: Will be required in digital format. Will be delivered using Moodle, with no need to print them. In case it is necessary to print them: Plastics won't be used. Two side printing will be used. Recycled paper will be used. Printing drafts will be avoided. A sustainable use of the resources should be done, together with the prevention of negative impacts on the environment. Anbsp;

(*)A Guía docente é o documento onde se visualiza a proposta académica da UDC. Este documento é público e non se pode modificar, salvo casos excepcionais baixo a revisión do órgano competente dacordo coa normativa vixente que establece o proceso de elaboración de guías