

Subject card

Subject name and code	Marine Resource Economics, PG_00177380						
Field of study	Economics, International Economic Relations						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		English ENG		
Semester of study	6		ECTS credits		5.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Giuseppe Cirella				
	Teachers		dr Giuseppe Cirella Michael Rościszewski-Dodgson				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		0.0		0.0	30
Subject objectives	Understand the foundational principles of economics as they relate to marine and coastal resources, including concepts such as scarcity, opportunity cost, externalities, and common-pool resource management.						
	Analyze the economic drivers and consequences of human activities in marine environments, such as fisheries, aquaculture, tourism, shipping, and offshore energy.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[EKONL3_K05] correctly identifies, diagnoses and resolves professional dilemmas and different options for solutions	Students will be able to identify and assess professional and ethical dilemmas related to marine resource use—such as balancing conservation with economic development or addressing equity in fisheries access. They will evaluate multiple solution options using economic reasoning, sustainability principles, and stakeholder perspectives, and justify their decisions based on interdisciplinary evidence and critical analysis.	[SK2] presentation/project/paper/report [SK5] implementation of a problem task
	[MSGL3_U13] can prepare presentations and oral speeches on selected specific problems concerning international economic relations (in connection with the chosen speciality within International Economic Relations), using basic theoretical approaches, specialist terminology, principles of collecting data from various sources, their description and interpretation, and drawing conclusions based on scientific literature	Students will be able to prepare and deliver presentations and oral speeches on selected issues in marine resource economics within the framework of international economic relations. They will use appropriate theoretical approaches, specialist terminology, and reliable data sources to describe, interpret, and analyze problems such as marine trade, blue economy development, or resource governance, and draw evidence-based conclusions grounded in scientific literature.	[SU4] test/exam - oral or written [SU6] demonstration of practical skills
	[MSGL3_K05] correctly identifies, diagnoses and solves dilemmas and various options of solutions related to the profession	Students will be able to identify, assess, and resolve professional dilemmas in the field of marine resource economics, such as trade-offs between environmental conservation and economic development. They will evaluate alternative solutions using critical thinking and ethical reasoning, applying interdisciplinary knowledge to make informed and responsible decisions in real-world marine and coastal contexts.	[SK1] oral statement/conversation/discussion [SK5] implementation of a problem task
	[MSGL3_W03] has an advanced and structured knowledge of the world economy and international economic relations; understands the process of their evolution, including its causes and consequences	Students will acquire advanced and structured knowledge of the global marine economy and its role within international economic relations. They will understand the historical evolution of marine industries such as fisheries, shipping, and offshore energy, and analyze the causes and consequences of global trends—including trade liberalization, climate change, and geopolitical tensions—on the sustainable use of marine resources.	[SW3] text preparation/written work [SW5] implementation of a problem task
	[EKONL3_W04] knows the types of economic and social ties and the regularities governing them	Students will understand the economic and social relationships that shape marine resource use, including the dynamics between coastal communities, industry stakeholders, and governing institutions. They will recognize key patterns such as the tragedy of the commons, resource dependency, and socio-economic inequality, and explore how these regularities influence marine policy, access to resources, and long-term sustainability.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report

	Course outcome	Subject outcome	Method of verification
	[EKONL3_W03] has advanced knowledge of the relations between economic agents and social organisations operating in the national, international and intercultural arenas	Students will acquire advanced knowledge of the relationships between economic actors and social organizations involved in marine resource governance at national and international levels. They will explore how these interactions—across sectors and cultures—influence policy outcomes, trade in marine products, environmental agreements, and the equitable distribution of marine resources.	[SW2] presentation/project/paper/report [SW5] implementation of a problem task
	[MSGL3_W02] has an advanced knowledge and understanding of the terminology of international economic relations and complementary disciplines	Students will gain advanced knowledge of the terminology used in international economic relations, particularly as it applies to marine trade, fisheries agreements, blue economy strategies, and maritime governance. They will also understand key concepts from complementary disciplines such as environmental economics and international law, enabling them to navigate the global context of marine resource management.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion
	[MSGL3_U11] has language skills in the field of economics, specific to the field of study of International Economic Relations, in accordance with the requirements of Level B2 of the Common European Framework of Reference for Languages	Students will demonstrate B2-level language proficiency in English within the context of international economic relations, with a specific focus on marine resource economics. They will use appropriate economic terminology in spoken and written communication, including policy briefs, presentations, and group discussions on marine trade, sustainability, and governance issues in global contexts.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task
	[MSGL3_K03] participates in the preparation of economic and social projects; can reconcile legal, economic, ecological, political and social requirements	Students will actively participate in the development of interdisciplinary projects related to marine resource use and policy. They will demonstrate the ability to integrate and balance legal, economic, ecological, political, and social dimensions when proposing solutions for sustainable marine development, ensuring that diverse stakeholder interests and regulatory frameworks are effectively addressed.	[SK2] presentation/project/paper/report [SK3] text preparation/written work
	[EKONL3_K03] participates in the preparation of economic and social projects, being able to reconcile legal, economic, ecological, political and social requirements	Students will participate in the design and development of interdisciplinary projects addressing marine resource challenges, demonstrating the ability to integrate legal, economic, ecological, political, and social considerations. Working in groups, they will propose balanced solutions that reflect real-world constraints and stakeholder needs, and justify their approach through structured analysis and collaborative decision-making.	[SK4] test/exam - oral or written
	[EKONL3_U08] has the ability to observe, understand and analyse economic and social phenomena and processes using appropriate scientific methods	Students will develop the ability to observe, interpret, and analyse economic and social processes affecting marine environments—such as coastal overdevelopment, fishery decline, and marine tourism growth—using scientific methods including data analysis, stakeholder assessment, and scenario modelling. They will apply these methods to real-world case studies to draw evidence-based conclusions.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task

	Course outcome	Subject outcome	Method of verification
	[EKONL3_U07] is able to participate in analyses and evaluations of alternative solutions to economic and social problems and to choose the methods and instruments to resolve them rationally	Students will be able to engage in the analysis and evaluation of alternative policy and management approaches to marine resource challenges, such as quota systems, marine protected areas, and ecosystem-based management. They will learn to select and apply appropriate economic and interdisciplinary methods to assess these options and make rational, evidence-based recommendations for sustainable and equitable outcomes.	[SU2] presentation/project/paper/report [SU6] demonstration of practical skills
	[EKONL3_W01] has advanced knowledge of the nature of social sciences, their place in the system of sciences, knows the role of economic sciences in this system and uses universal economic terminology	Students will develop advanced knowledge of how economic sciences interact with other social sciences in addressing marine and coastal resource issues. They will understand the interdisciplinary nature of marine resource economics and apply universal economic terminology to explain concepts such as externalities, public goods, market failure, and sustainability within marine contexts.	[SW2] presentation/project/paper/report [SW3] text preparation/written work
	[MSGL3_U05] can use basic regulations and standards which determine business activity, as well as accounting principles in order to solve specific tasks related to the activity of enterprises	Students will be able to apply relevant regulations, standards, and accounting principles to address practical challenges faced by enterprises operating in the marine sector. They will examine legal frameworks governing marine resource use—such as licensing, environmental compliance, and sustainability reporting—and use this knowledge to solve case-based tasks related to marine business operations.	[SU3] text preparation/written work [SU5] implementation of a problem task
	[MSGL3_U03] can identify and analyse relations between economic entities and public institutions in the national and international environment; using the acquired theoretical knowledge can critically evaluate these relations and indicate directions for their further development or changes	Students will be able to identify and critically analyze relationships between economic entities and public institutions involved in marine governance at both national and international levels. Drawing on theoretical knowledge, they will evaluate cooperation and conflicts among stakeholders—such as governments, industry, and NGOs—and propose strategies for improving policy coordination and advancing sustainable marine resource use.	[SU1] oral statement/conversation/discussion [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
	[MSGL3_W04] has an advanced knowledge of different types and essential elements of the structures of economic entities and organisations, and public institutions	Students will develop advanced knowledge of the structural components and types of economic entities and public institutions involved in marine resource management. They will analyze the roles of state agencies, international organizations, NGOs, and private enterprises in shaping marine policies, regulating access to resources, and implementing sustainability initiatives within the blue economy.	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion

	Course outcome	Subject outcome	Method of verification
	[MSGL3_W01] has an advanced knowledge of economic sciences, in particular of economics and its place in the system of sciences, including within related disciplines	Students will demonstrate advanced understanding of economic sciences, with a particular focus on how marine resource economics fits within the broader system of sciences. They will explore connections between economics, environmental science, and policy studies, gaining insight into the interdisciplinary foundations of sustainable marine resource management.	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report
	[EKONL3_U03] is able to analyse the causes and course of specific economic and social processes and phenomena, and accurately analyse these phenomena using adequate methods and tools economic and social	Students will be able to analyze the economic and social drivers of marine resource use, including overfishing, marine pollution, and coastal development. They will apply appropriate economic and interdisciplinary tools—such as cost-benefit analysis, stakeholder mapping, and sustainability indicators—to assess the causes and impacts of these phenomena in various marine and coastal settings.	[SU5] implementation of a problem task [SU6] demonstration of practical skills
	[EKONL3_W02] has advanced knowledge of the different types of existing business entities and organisations and public institutions	Students will gain advanced knowledge of the roles and functions of business entities, non-governmental organizations, and public institutions involved in the governance and management of marine resources. They will understand how these actors interact within marine economies, including fisheries cooperatives, regulatory agencies, international bodies, and private enterprises operating in the maritime sector.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
Subject contents	Introduction to Marine Resource Economics Ocean as an Economic Space: Overview of Marine Sectors Property Rights and the Economics of Common-Pool Resources Market Failures and Externalities in the Marine Environment Fisheries Economics and Bioeconomic Modelling Aquaculture: Economics, Sustainability, and Trade Marine Ecosystem Services and Valuation Methods Coastal Tourism and Blue Economy Development Marine Spatial Planning and Integrated Coastal Zone Management Economic Instruments for Marine Conservation (e.g. MPAs, taxes, subsidies) International Marine Agreements and Trade in Marine Products Climate Change and Marine Resource Impacts Stakeholder Analysis and Participatory Governance in Marine Systems Group Project Workshops: Policy Analysis and Proposal Development Student Presentations and Feedback Final Review and Exam Preparation		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written	51.0%	50.0%
	Oral / Exam	51.0%	50.0%

Recommended reading	Basic literature	Grafton, R.Q., Hilborn, R., Squires, D., Tait, M., & Williams, M. (eds.) (2010). Handbook of Marine Fisheries Conservation and Management. Oxford University Press. https://global.oup.com/academic/product/handbook-of-marine-fisheries-conservation-and-management-9780195370287?cc=pl&lang=en& OECD (2016). The Ocean Economy in 2030. OECD Publishing. https://www.oecd.org/en/publications/2016/04/the-ocean-economy-in-2030_g1g6439e.html OECD (2025). The Ocean Economy to 2050. OECD Publishing. https://www.oecd.org/en/publications/2025/03/the-ocean-economy-to-2050_e3f6a132.html? Marine Resource Economics. FAO https://portal.issn.org/resource/ISSN/2334-5985s
	Supplementary literature	Charles, A. (2001). Sustainable Fishery Systems. WileyBlackwell. https://www.wiley.com/en-us/Sustainable+Fishery+Systems-p-9780470698235
	eResources addresses	
Example issues/ example questions/ tasks being completed	What are the economic consequences of treating the ocean as an open-access resource? Compare the effectiveness of marine protected areas (MPAs) and individual transferable quotas (ITQs) in fishery management. Assess the costs and benefits of offshore wind farms from a marine spatial planning perspective. Analyze a case study of a coastal community dependent on marine resources identify challenges and propose sustainable economic solutions. Prepare a group policy brief recommending an economic strategy for reducing overfishing in a selected region. How do international trade policies affect small-scale fisheries in developing countries?	
Work placement	Not applicable	

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