

**Περιγραφή μαθημάτων Προγράμματος
(στη γλώσσα διδασκαλίας του ΔΠΜΣ – Αγγλικά)**

Quantitative Methods in Shipping and Sea Transportation Economics

This course covers essential concepts, tools and methods of statistics and econometrics. The main topics include descriptive and inferential statistics, as well as simple and multiple regression analysis, time series analysis, and forecasting methods. This course will emphasize on how these analytical tools can be applied in economic and financial data relating to the transportation and shipping industries.

Sea Transport and Shipping Economics

The course, at first, introduces sea transport economics examining the topics of transport demand and supply, transport externalities, pricing of transport services, and economic policies regarding the regulation of the transport industry. Next, the course focuses on the economic characteristics of the global shipping industry: the four shipping markets, shipping cycles and forecasting, economics of (i) dry bulk, (ii) tanker, and (iii) liner shipping, the regulatory framework for international shipping, as well as green shipping.

Law of the Sea – Shipping Law

The course entails two major parts. The first focuses on examining the origins and development of international law of sea (both customary and conventional), its basic concepts such as territorial waters, exclusive economic zone, high seas, etc, and the importance of the corresponding legal regimes for the shipping operations in these sea zones. The second focuses on the legal framework of a shipping enterprise, examining the rights and responsibilities of ownership and operation of sea vessels, including those of the owner, the agent, the captain and the crew. The relevant contractual relations are examined (chartering, navigation, insurance coverage, employment at sea, assistance and salvage at sea etc.)

International Relations and Politics in Shipping and Sea Transport

The course will combine the theoretical study of International Relation in relation with the Maritime Studies, such as Mahan's Sea Power, Maritime Security, Globalization and Interdependency, with the main empirical issues of international politics in the globe today that influence emphatically Sea Transports (e.g. modern piracy, terrorism, the great power antagonism in the Oceans today etc). The main goal of the course is to offer a balanced approach between the fundamentals of International Relations and of the current affairs, creating a perfect blend for the student who wishes to combine theoretical analysis with information in one.

Shipping Investment and Finance

This course covers the fundamental principles of shipping investment and finance. It analyses the process of raising equity and debt capital as well as the optimization of financing solutions for vessel investment. Alternative sources of finance for the shipping industry such as leasing, export credit agencies and shipyard credit are examined. Finally, risk assessment and risk management issues in the shipping

industry are discussed. Particular attention will be paid on analyzing methods for securing the case of shipping companies remaining profitable, thus ensuring their *economic sustainability*.

Port Economics and Policy

This course provides the students with the basis for understanding the economic decisions of users and providers of port services. It examines the various types of port markets (i.e., cargoes, passenger, cruise) and the pricing strategies of ports. Moreover, specific characteristics of the port industry such as the different types of port competition, the shipping industry-port industry nexus, and the formation of port networks are analyzed from an economic perspective. Finally, it discusses issues related to port policies and regulations.

Crisis Management, Negotiations and Security

The course is to familiarize students with the micro-theories of decision making, so as they optimize their understanding, their analytical skills, and develop decision making, crisis management and negotiation skills. Initially, the course examines the factors that affect decision making in general and international politics in particular. Next, it presents and analyzes the rational, the conventional and the psychological decision making theories, using examples from world history and international politics. Then the concepts, the characteristics, and the strategies used in order to manage a crisis are presented. Finally, the course studies negotiations, their concept, purpose and techniques, from the initial to the concluding of an agreement stage.

Global Supply Chain Management

The aim of the course is to provide a comprehensive understanding of the global supply chain systems and the process of managing them. Students are first introduced to the basic concepts and methods related to the analysis and management of the global supply chain. The thematic units of the course include a discussion of the functions and the design of global supply chains, as well as the concept of strategic supply chain management.

Sea Transport and Shipping Services Management

The maritime sector is dynamic and volatile, creating the need for continuous monitoring of the latest developments and their effects on the organization, management and strategies of shipping companies. This course analyses the business environment of these companies and the approaches they adopt in organizing and managing their activities, with emphasis to the special characteristics of the shipping industry. It offers a detailed account of the companies' processes and functions, the structural and contextual dimensions of their organization (examining the different types of organizational structures), as well as an analysis of human resources, safety management and the outsourcing of shipping operations.

Maritime Policy, Governance and Regulation

The course focuses on schemes and parameters of formulating and implementing Maritime Policy, as a field of public policy, at national, European and international level, using as implementing tool the concept of Regulation. Particular attention is paid to issues related to shipping and sea transports (e.g. maritime administration,

maritime market, relations between state and maritime businesses or workers, maritime taxation, maritime investment, etc) as these policy fields are being developed independently, however they are included in the wider maritime policy field. The analysis will include also the employment of the sustainability factors in maritime policy, focusing on compliance with applicable relevant laws, regulations and standards and on achieving ESG (Environmental, Social, Governance) performance, i.e. if the relevant maritime activities contribute to an environmental objective, have positive social impact and follow good governance practices.

Regional Aspects of International Relations in Shipping and Sea Transport: Asia and Africa

Due to the very nature of shipping and sea transport, as an activity with global economic and political implications and impact, studying the regional aspects of the interaction of political and economic actors in this policy field, in regions with a global significance such as Asia and Africa, offers a crucial focused insight. The continued increase of Asia's influence in global politics and economy (with intra-regional and north-south initiatives and actors such as Japan, China, India, South Korea which are very active in shipping and sea transports) and the emerging dynamics of Africa as a significant economic and political actor (through targeted interventions by national, regional and international players that align with the Sustainable Development Goals and focus on supporting Africa in exploiting its potential in shipping and sea transport) are to be examined as drivers of political and economic supremacy in the respective regions.

Marine Insurance

The aim of this course is, first, to provide an overview of certain economic concepts relevant to risk and insurance and discuss important factors influencing the demand and supply of marine insurance. The problems of adverse selection and moral hazard, as well as the principal-agent conflict will also be discussed. Moreover, this course will provide students with a comprehensive view of the international law governing marine insurance, focusing on the marine insurance contract, the types of marine insurance policies and the corresponding assignment of rights, the impact of good faith, the foreseen remedies, the risks, the rules regarding causation and burden of proof, issues on indemnity, and third parties/ rights.