

MINISTRY OF EDUCATION AND SCIENCE TECHNICAL UNIVERSITY - VARNA FACULTY OF MECHANICAL ENGINEERING AND TECHNOLOGIES

APPROVED

DEAN:
/ Assoc. Prof. Dr. Eng. Radostin Dimitrov

SYLLABUS

Discipline "TECHNOLOGY AND ORGANIZATION OF MARITIME TRANSPORTATION", code: 44B

Included in the Curriculum of the specialty: INDUSTRIAL MANAGEMENT

Professional field of study: GENERAL ENGINEERING – 5.13

Higher Education Qualification: BACHELOR'S DEGREE

Faculty, providing the organizational and methodological training: FACULTY OF MECHANICAL

ENGINEERING AND TECHNOLOGIES

Department, providing instruction on the discipline: NAVIGATION, TRANSPORT MANAGEMENT AND WATERWAYS PRESERVATION

Excerpt from the curriculum

			Forms of assessment			Auditorium workload					ies	рı		
order			sment	ıt			Seminars			ses	ses	activities	workload	s
No by or	Name of the discipline	Examination	Continuous Assessme	Course project	Pass / Failed	Lectures	Seminar classes	Course project	Course work	Laboratory classes	Total hours	Extracurricular	Student total v	Credits
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
44в	TECHNOLOGY AND ORGANIZATION OF MARITIME TRANSPORTATION	*				30				15	45	105	150	6

Semester: SEVENTH

ANNOTATION

The discipline "TECHNOLOGY AND ORGANIZATION OF MARITIME TRANSPORT" is a mandatory selective, according to the unified state requirements for acquiring higher education in the specialty "Industrial Management", specialization "Shipbuilding and Shipping", with the educational and qualification degree "Bachelor". The discipline introduces students to the problems of the organization and technology of maritime transport and, above all, to the environment in which the water transport industry develops. The market structure of international freight markets with their main elements and so on is presented. In this regard, the main commodity markets are presented as the basis of demand and the types of ships as a consequence of market requirements. The main technological characteristics of ships and the most important cargoes are examined. The physical structure of the markets with the basic market participants and intermediary companies are also examined.

A. Lectures (Topics)

Topic 1.	TRANSPORTATION OF DRY BULK CARGO.	3 hours
	ekets of the five major bulk cargoes. Pact of scientific and technological progress on the market	
Topic 2. T	RANSPORTATION OF GENERAL CARGO.	3 hours
2.2. Inf 2.3. Co	velopment of container technologies. luence of logistics concepts. nventional and other types of general cargo. ified loading units.	
Topic 3.	TRANSPORTATION OF LIQID CARGO.	3 hours
	pes of liquid cargoes and development of trade in them. uefied gas markets.	

Topic 4. Basic Commercial And Technological Characteristics Of The S	Ship. 2 hours
4.1. Linear characteristics of the ship	
4.2. Volumetric characteristics of the ship	
4.3. Load mark, deadweight of the ship.	
1.3. Loud mark, dead weight of the ship.	
Topic 5. BULK CARGO SHIPS.	3 hours
5.1. Market influence on their development.	
5.2. Bulk carrier types, sizes and commercial applications	
Topic 6. TANKERS.	3 hours
6.1. Market influence on their development.	
6.2. Types, sizes and commercial applications.	
6.3. Gas carriers	
Topic 7. General Cargo Ships.	3 hours
7.1. Market influence on their development.	
7.2. Types, sizes and commercial applications.	
7.3. Container ships, ro-ro ships, heavy cargo ships ".	
7.5. Container simps, to to simps, nearly earge simps.	
Topic 8. PORTS AND CANALS.	3 hours
8.1. Types of ports as technological units.	
8.2. Canals and seaways	
Topic 9. MARKET ENTITIES.	2 hours
10p.0 /	
9.1. Shipowners, shippers.	
9.2. Port operators.	
9.3. Market intermediaries.	
Topic 10. ORGANIZATIONAL FORMS IN SHIPPING.	2 hours
10.1. Tramp shipping.	
10.2. Liner shipping	
Topic 11. TYPES OF SHIPPING MARKETS	3 hours
11.1. Tramp Markets – Dry Cargo and Tanker Market	
11.2. Liner Market	
11.3 Market Factors	Total: 30 hour

Total: 30 hours

B. Seminars

NONE

Total: 0 hours

C. Laboratory classes

Topic 1.	Dry bulk cargo markets.	1 hour
Topic 2.	Liquid cargo markets.	1 hour

Topic 3. General cargo markets.	1 hour
Topic 4. Container markets and shipping.	2 hours
Topic 5. Ship characteristics	1 hour
Topic 6. Bulk carriers	1 hour
Topic 7. Tankers	1 hour
Topic 8. General cargo ships.	1 hour
Topic 9. Ports and canals	1 hour
Topic 10. Market entities	1 hour
Topic 11. Liner and tramp shipping	1 hour
Topic 12. Types of shipping canals	2 hours
Topic 13. Market factors and their impact	1 hour

Total: 15 hours

D. Practical Training

NONE 0 hours

Total: 0 hours

E. Course Project

NONE 0 hours

Total: 0 hours

F. Forms and organisation of the assessment throughout the semester

Forms of assessment throughout the semester	Points- K1
Final laboratory exercise Test	40
Total	40

G. Type of assessment (procedure)

Type of assessment	Points – K2
Exam - written	60

Final assessment points: $K= 1 \times K1 + 1 \times K2$

H. Reference

- 1. .Varbanova, A., Targovskaya exploitation of the fleet, Graphic, 2017
- 2. Petkov., N., Targovskaya exploitation of the ship, Steno, 2011
- 3. Petrovsky, V.V., Marine linear shipping, Moscow, ed. "Transport" 1977
- 4. P&O The Merchants Guide 2003 Edition
- 5. Review of Maritime Transport 2016. Geneva, UNCTAD/RMT/2016, United Nations Conference on Trade and Development.
- 6. Stopford, Martin, Shipping Market Prospects 2003 & Beyond
- 7. Concentration In Liner Shipping, Its Causes And Impacts For Ports And Shipping Services In Developing Regions, United Nations Economic Commission For Latin America And The Caribbean ECLAC, Distr. GENERAL LC/G.2027, 20 May 1998
- 8. Dry Bulk Charter Market, Drewry Shipping publications, Study No 112, May 1983
- 9. The Tanker Market in 2002, The crude oil transportation, Barry Rogliano Salles
- 10. Shipping and Shipbuilding Markets in 2002, The BRS annual review of WORLD SHIPPING and SHIPBUILDING developments in 2002 and prospects for the coming months, Barry Rogliano Salles 6

Author:
/Assoc. Prof. Aneta Varbanova, PhD/
The program was adopted by the department council of the department "
NAVIGATION, TRANSPORT MANAGEMENT AND WATERWAYS PRESERVATION"
with protocol No
Head of Department
/Assoc. Prof. B. Byakov PhD/
The programme was discussed at a Department Council meeting of the Department of
"INDUSTRIAL MANAGEMENT", protocol No
Head of Department
/Prof. Dr. Siika Demirova/
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The program was adopted by the Faculty Council with protocol No
TO.
Dean:
/ Assoc. Prof. Dr. Eng. Radostin Dimitrov /
Agreed by:
Agreed by

Code: 44B "TECHNOLOGY AND ORGANIZATION OF MARITIME TRANSPORTATION"

ECTS credits: 6 Number of hours per week: 2 + 0 + 1 Forms of assessments: Exam Types of assessment: Exam - written

Department, providing instruction on the discipline:

Department: NAVIGATION, TRANSPORT MANAGEMENT AND WATERWAYS

PRESERVATION

FACULTY OF SHIPBUILDING

Lecturer: Assoc. Prof. Aneta Varbanova, PhD

Department: NAVIGATION, TRANSPORT MANAGEMENT AND WATERWAYS PRESERVATION

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Abstract:

Students are introduced to the environment in which the Maritime Transport industry develops.

The market structure of international freight markets with their main elements and market infrastructure is presented. In this regard, the main commodity markets are presented as the basis of demand and the types of ships as a consequence of market requirements. The physical structure of the markets with its elements such as ports and waterways, the organizational structure of the markets with the basic market participants and intermediary companies are examined. Along with the commodity markets, all market operations affecting water transport will be examined.

Main sections of the content:

- Basic concepts of the structure of the freight market;
- Basic concepts of the supply and demand of the international freight market
- Basic concepts of the market infrastructure
- Basic concepts of the main market participants
- Basic concepts of the basic forms of tonnage exploitation.

Form of presentation of the educational content:

The educational content is presented in lectures and laboratory exercises:

- in the lectures, the theoretical statements related to the individual sections of the discipline are examined and mastered;
- in the laboratory exercises, specific materials of a printed and audio-visual nature are studied, characterizing the individual problems of the discipline.