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**MINE-EMI**  
**MARITIME INNOVATIVE NETWORK of EDUCATION**  
**for EMERGING MARITIME ISSUES**  
**Project 2019-1-TR01-KA203-077463**

**INTENSIVE PROGRAMME FOR HIGHER EDUCATION LEARNERS**  
**C5: "Practical Training in Port and Ship Operations"**  
**HOSTING PARTNERS: MARINE CLUSTER BULGARIA**  
**NIKOLA VAPSTAROV NAVAL ACADEMY - VARNA**

**07 - 11 March 2022**

**FIRST DAY – MARCH 7 2022**

Twelve students from four countries were welcomed and began training on the MINE-EMI project at Nikola Vapstarov Naval Academy. The participants are three students from each of the universities Constanta Maritime University (Romania), Piri Reis University (Turkey), The University of the Aegean (Greece), and Nikola Vapstarov Naval Academy.

After the successful registration and acquaintance with the program, the classes started.

**First Day – MARCH 7 2022**




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Subject: Port design and development  
Module 5: MODERN TECHNOLOGIES IN PORT DEVELOPMENT AND MARITIME EDUCATION  
Topic: Unmanned aerial vehicles in port operations - use cases and benefits

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The first training session was on the subject "Port design and development." The lecturer asst. prof. Todor Koritarov presented the topic "Unmanned aerial vehicles in port operations - use cases and benefits". The lecture identifies and reveals critical port operations and the potential of a rapidly growing new unmanned aerial vehicle industry. The presented topic was an open and accessible way to reveal the opportunities and directions in which experts could develop drone technology to implement them in ports.



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GREEN PORTS IN EUROPE AND THE CIRCULAR ECONOMY  
Capt. PHD Georgi Gilev  
"Nikola Vapzarov" Naval Academy – Varna  
Dept. "Ship and Port Operations"

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The second training session was on the subject "Green ports ". The lecturer asst. prof. Georgi Gilev presented the topic "Green ports in Europe and the circular economy." During the lecture, the development of the concept of green ports in Europe was traced and clarified,

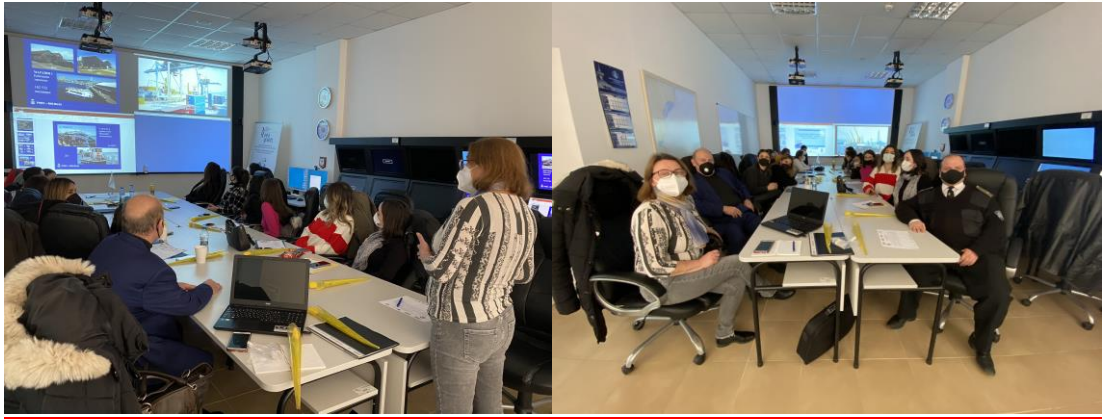
## SECOND DAY – MARCH 8 2022



On March 8 there was an online meeting with Mrs. Iveta Dimitrova from BMF Port Burgas. She presented the development of the company, progress, investments in new facilities at the terminals - built a grain silo complex, sulfuric acid complex, LPG facilities. He focused on the possibilities of the port to provide loading and unloading activities for various types of cargo. The topic of ecology of port activities also found a place in the presentation, in the context of "green" ports. The importance of internal staff training was also emphasized.

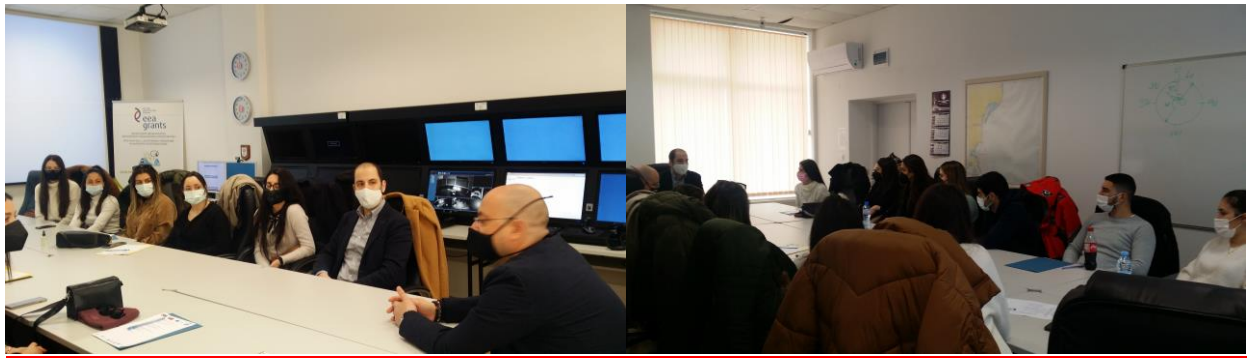


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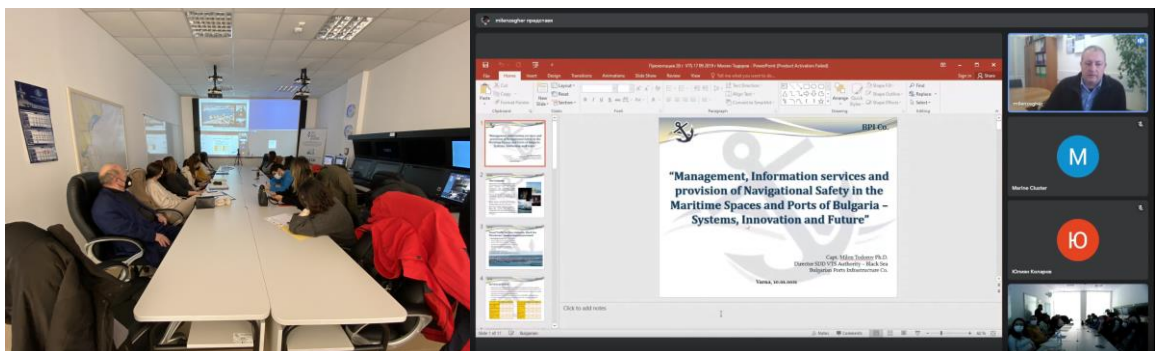
After the BMF Port of Burgas presentation, the lecturer, Siyana Angelova, presented the activities and professions in the ports and spoke about the port of Varna, focusing on the port of Varna-West. She emphasized the role of ports as a kind of hub, where activities are carried out by state institutions and control bodies and many private companies for the successful implementation of port and ship operations.

### THIRD-DAY – MARCH 9 2022



On the third day, March 9, three representatives of the logistics company X-Logistics took part in the training. Speakers from the company Mr. Stefan Stanoykov, Mr. Dimitar Vitanov shared about the professions in maritime logistics, focusing in more detail on the profession of shipping agent. They talked about their experience, the challenges in work, and the skills that the staff should have - a set of knowledge and skills for communication, decision making. It was emphasized that building trust in this type of business is crucial. Specific cases from their practice supported their opinion. Mrs. Ralitsa Miletieva from the company shared that she has been in the company for a year and continues studying and advancing her career.

### FOURTH-DAY – MARCH 10 2022





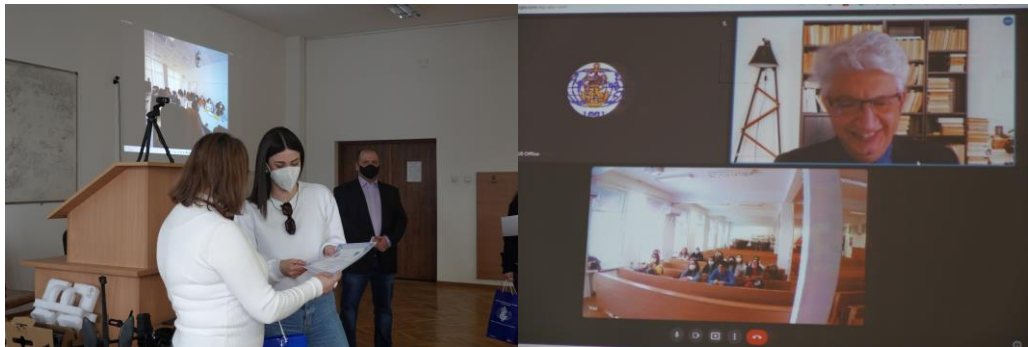
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On the fourth day the lecturer was Capt. Ph.D. Milen Todorov Director SDD VTS – Black Sea part of Bulgarian Port Infrastructure Co. He interacts with students via video conferencing. The topics presented were two – "Vessel Traffic Services "and "Electronic exchange of information on arrival and departure of ships" as part of the Port Community System.

The trainees got acquainted with the complex approach of the Bulgarian Port Infrastructure Company to take advantage of a wide variety of modern technologies. Details and applications of elements of the VTMIS system of Bulgaria were presented, as well as that its development is a constant process of improvement and implementation of the latest new technologies and good practices.

### FIFTH-DAY – MARCH 11 2022



On the fifth day, a review of the past days was made. The trainees filled out a feedback questionnaire. Mr. Alaettin Sevim from Piri Reis University (Turkey) held a video conference meeting with the students and discussed the training and their stay at Nikola Vaptsor Naval Academy. Mrs. Siyana Angelova from Maritime Cluster Bulgaria officially presented the certificates for the completed training to each student.