

THE IMPACT OF MARTIAL LAW ON MARITIME EDUCATION AND TRAINING

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Introduction. Nowadays, Maritime Education and Training (MET) in Ukraine is undergoing significant transformations due to several factors (e.g., Artificial Intelligence (AI) and the process of digitalization). The oldest maritime institution, Kherson State Maritime Academy (KSMA) is in step with the times. The tools of AI have been used in the educational process of future seafarers. DataIsland has been chosen as a platform with AI functions. The main functions are the following: analysis of documentation (every teacher/student has the possibility to upload documents in the system or to use uploaded documents) and text processing (Chat GPT-4o, C.E.H.C).

The electronic environment of KSMA is situated on LMS MOODLE (mdl.ksma.ks.ua). The structure of online courses consists of the academy itself (two faculties: Navigation and Marine Engineering), the Future Education and Skills Development Training Center, the Science Park of KSMA “Maritime Industry Innovations,” and the Maritime Applied College of KSMA.

Online courses include various internal tools and instruments and links to some external resources (e.g., Ocean Learning Platform). Online simulators like Ocean Learning Platform became extremely popular during martial law in Ukraine. The access to resource is for authorized users only. Students have the possibility to visit online courses, finish them, and receive grades.

Another platform resource that is embodied in the LMS MOODLE of KSMA using SCORM is LearningApps. The website has a wide variety of templates to create activities with personal content. The teacher will have his/her own account on the website and can list created for him/her activities. Other users have the possibility to check and edit any activity found [1].

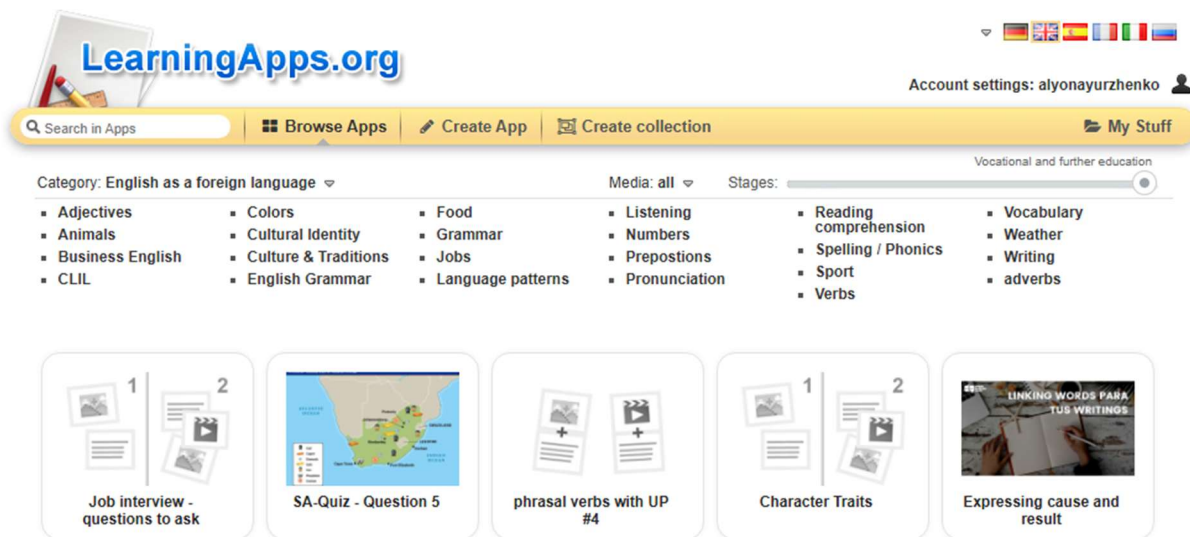


Figure 1 — interface of Browse Apps of LearningApps

Students also have the possibility to visit DSpace 8 repository of KSMA where all scientific works of teaching staff are collected. Every teacher uploads there the works and fills in metadata on each work (e.g., name, abstract, reference, date, authors, publisher, URL, keywords, description). The works are grouped according to faculty: Marine Engineering and Navigation. Despite the teaching staff's works, the repository also includes students' dissertations, papers, shipboard practice reports, and tests [2]. The structure of KSMA repository consists of five sections: Alma Mater (e.g. articles of Scientific Bulletin of KSMA); Dissertation works; Maritime Applied College of KSMA; Marine Engineering Faculty; Navigation Faculty. There is also search option to find the information on the repository web site easily. The search can be done by:

- Issue Date;
- Author;
- Title;
- Subject;
- Subject Category.

KSMA repository is a useful tool for students' scientific research, it gives free access to study materials and enhances their academic profile.

Zoom and Recosha Meet (BigBlueButton) are used as videoconference tools by students and teachers of KSMA. Electronic schedules can be accessed by authorized users in MOODLE and are formed with the help of Google Docs. The schedules are grouped according to faculty, year, and form of study (e.g., abridged program, dual award, correspondence department) [3]. Dual award students that study online (e.g., KSMA — University of Plymouth, the UK) use LMS MOODLE of the second institution as well as KSMA. KSMA uses the 4.2.2 + version of MOODLE. The upgrade is planned this year.

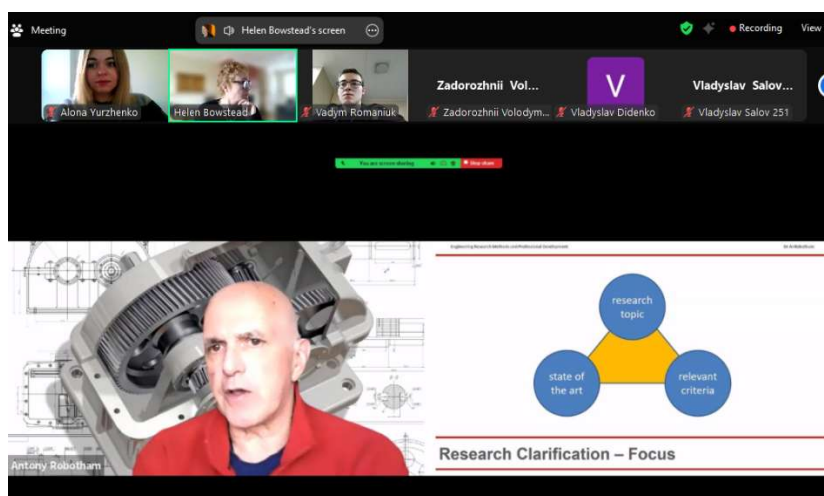


Figure 2 — Dual award students' classes with teachers from University of Plymouth, the UK

While Zoom video classes, various digital resources are used as additional means (e.g., Miro, Kahoot!, Prezi Video for Zoom, Microsoft 365, Qarrot, AI generated meeting notes, WINN.AI). Miro is used as a whiteboard embedded in Zoom. It promotes collaboration, visualizes complex concepts, facilitates communication, and provides opportunities for practical application through online classes for future seafarers [4].

Conclusions. Nowadays, MET is in the process of modernization due to several factors. Martial law in Ukraine also has an influence on the education of future seafarers. KSMA, as one of the oldest maritime education institutions, is also modernizing its educational process in distance and blended forms. AI tools are integrated into teaching and studying. Videoconferences are used (Zoom, Recosha Meet, BigBlueButton). A lot of external tools of Zoom help to interact online lessons. Everything mentioned above helps to conduct a qualitative educational process while martial law in Ukraine.

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