

**МІНІСТЕРСТВО ОХОРОНИ ЗДОРОВ'Я
БУКОВИНСЬКИЙ ДЕРЖАВНИЙ МЕДИЧНИЙ
УНІВЕРСИТЕТ**

**м. Чернівці
16-17 лютого 2024**

**МАТЕРІАЛИ
З НАУКОВО-ПРАКТИЧНОЇ КОНФЕРЕНЦІЇ
З МІЖНАРОДНОЮ УЧАСТЮ
"МЕДИЧНА СИМУЛЯЦІЯ-
ПОГЛЯД У МАЙБУТНЄ"**



learning when microscopic equipment is not accessible. Another digital tool for morphological classes is live broadcasting systems that allow medical educators to share clinical cases or archive material from the microscope through video systems to the webinar synchronously. The Department of Histology, Cytology and Embryology has an experience implementing this tool during remote learning due to pandemic restrictions. Sharing biopsy materials slides that have been preceded with classical and special stains, enhances clinical thinking and interdisciplinary correlation, especially given that there is no previously composed database with answers. This tool has additional benefits for students' education: it expands the variety of histological material for examination during classes and the experience of practical skills in tissue analyses. Since students are often limited by tissue material (slides) available at the Department, digital Histology tools assist medical educators in providing diverse demonstration material in all covered topics.

To conclude, theoretical subjects in higher medical institutions can diversify and modernize educational approaches by using digital facilities. For morphological subjects, especially Histology, these may include virtual laboratories and atlases that enrich students' experience in tissue examination and clinical thinking.

EXPERIENCE IN DEVELOPING AND IMPLEMENTING MODULES ON INNOVATION AND ENTREPRENEURSHIP IN HEALTHCARE

Popova I., Antofiichuk T., Shchudrova T., Antofiichuk M.

Bukovinian State Medical University, Chernivtsi

Contemporary higher medical education is facing considerable changes due to intensive innovations in healthcare technologies. Besides acquiring profound knowledge of clinical skills and competencies, young professionals need to expand their vision in career proceedings. BSMU has gained a unique experience in presenting and implementing both an offline and online course on entrepreneurship in healthcare for senior medical students and academic staff in the 2023-24 academic year.

Since 2022 BSMU has been a partner of the "HEI Innovation for Knowledge Intensive Entrepreneurship" project [1], a consortium which aims to develop opportunities for young generations in Ukrainian universities to expand practical skills in brainstorming, pitching their ideas and implementing them in start-ups. This project has gathered HEIs (higher educational institutions) of medical and non-medical specialities in Ukraine and EU countries for better higher education and their integration into entrepreneurship collaborations. The HIVE project aims

to increase the innovation and entrepreneurial capacity of project partners by networking and exchanging the best practices identified nationally and internationally. The aim was to increase innovation and entrepreneurial capacities, and to better integrate into and engage with the following innovation ecosystems [2]: Bulgarian Chamber of Commerce and Industry (Bulgaria); Coursera (USA); Czech University of Life Sciences (Czech Republic); Essec Business School (France); Riga Stradins University (Latvia); Ted University (Turkey); The University of Applied Sciences Wiener Neustadt (Austria); University of Coimbra (Portugal); University of Latvia (lead partner) (Latvia).

In the autumn semester of 2023 BSMU, due to its fruitful work in the HEI project, has developed and implemented an elective course “Innovation and Entrepreneurship in Healthcare” for students of the 6th course. Students had the opportunity to discuss the basics of the entrepreneurship process and to pitch their start-up ideas in healthcare. Besides the offline elective course, BSMU academics and non-academics have completed the 1st edition of the online course “Entrepreneurship: Turning Ideas into Business”.

The “Entrepreneurship: Turning Ideas into Business” training program has been developed by the HIVE consortium partners, represented by 10 HEIs and coordinated by the University of Coimbra. From January to September 2023, a dedicated team of over 30 individuals, comprising both academic and non-academic staff from the participating HEIs, collaborated intensively [2]. This collaborative effort resulted in the creation of a comprehensive self-paced online training program. The program encompasses meticulously developed content for each module, engaging activities, and a collection of informative videos.

The goal of this training program is to create an inclusive training programme that fits the entire academic community (students, academic, and non-academic staff) and in the future could be embedded in the curricula (bachelor and master level) of HEI HIVE partners.

The structure of the training program includes three general modules and three optional modules: Module I: Entrepreneurship and Innovation, Module II: Turning an Idea into a Business, Module III: Launching a Start-up and three Optional modules: Innovation and Entrepreneurship in Healthcare; Social Entrepreneurship and Social Innovation, and IT and Digitization Basics for Young Entrepreneurs.

Hence, the consortium unites the integral components of the knowledge triangle, encompassing education, research, and businesses. This international collaboration is pivotal for enhancing the innovation and entrepreneurial capabilities of participating organizations, fostering sustainable economic growth, and bolstering the competitiveness of partner countries. The project envisions the

dissemination of knowledge, the refinement of internal processes, and integration into innovation ecosystems. This involves facilitating policies, regulations, and finance accessibility, elevating human resource expertise, promoting research, and cultivating a supportive culture of innovation and entrepreneurship.

Drawing from the wealth of experience and knowledge shared, an online training program, featuring blended learning options and curriculum adoption, has been developed for the sustained impact of the project. The enduring success of this initiative is further ensured by mobilizing diverse stakeholders in the knowledge triangle, creating tangible distinctions, and unveiling new possibilities for target groups and stakeholders such as students, academic and non-academic staff of HEIs, and startups. The commitment of partners is not confined to the current project; it extends to future collaborations, encompassing joint commercialization endeavours, research activities, operational management of established structures, and the continuous evolution of training courses.

References:

1. EIT HIVE Initiative (EIT: European Institute of Innovation and Technology; Funded by the European Union).
2. Ackerler E., Antofiichuk T., Bairrada C. et al. (2023), New Training modules, teaching materials and updated mentoring scheme for students, academic and non-academic staff, DEL13 of the EIT project HIVE.

SCENARIO-BASED LEARNING EFFICIENCY FOR MILITARY TRAININGS Rogachevsky O.P., Pervak M.P.

Odesa National Medical University, Odesa

The National Emergency Association of Medical Technicians (NAEMT), Committee for Tactical Emergency Casualty Care (C-TECC) USA [1; 2], and Lithuanian University of Health Sciences (Kaunas, Republic of Lithuania) all emphasize the importance of medical training formation and development.

Mandatory training on this topic is still in its early stages, leaving structure and effectiveness analysis gaps.

The new peculiar conditions of institutions operating amid full-scale armed aggression foster the quick development of new teaching methods and techniques.

To tackle this challenge, we analyzed the experiences of various nations, particularly Kaunas Medical University in the Republic of Lithuania.

Employees of Odesa National Medical University received face-to-face training at this prestigious institution in the fall of 2022. The MARCH [3]