

**Erasmus+: Cooperation partnerships in higher education**  
**Collaborative e-platform for innovation and educational enhancement in**  
**medical engineering**

# CALLME Training – Report

<b>Project Title</b>	<b>Collaborative e-platform for innovation and educational enhancement in medical engineering 2022-1-RO01-KA220-HED-000087703</b>
<b>Output</b>	<b>CALLME – Training</b>
<b>Date of Delivery</b>	<b>November 2024.</b>
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## 1. Description of CALLME Project

### CALLME Project Overview and Objectives

The CALLME project is designed to introduce an innovative educational framework known as the New Educational Methodology (NEM), which integrates STEM (Science, Technology, Engineering, and Mathematics) principles into the field of medical engineering education. This novel methodology will be seamlessly incorporated into existing educational structures, enhancing multiple academic curricula and courses as part of the project's outcomes. A key deliverable of the project will be the development of an open e-platform, E-COOL, aimed at fostering collaboration, knowledge exchange, and cross-disciplinary partnerships. The platform will serve as a critical tool for the application of NEM, facilitating the formation of a molecular network that connects various stakeholders within the "triangle of knowledge," which includes business professionals (from biomedical companies), innovation hubs, and higher education institutions. Additionally, the platform will promote the continuous improvement of existing curricula and the creation of new educational programs at higher education institutions.

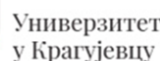
### Project Objectives

The core objectives of the CALLME project are as follows:

- Establishment of a Collaborative Network:

To create a comprehensive network for medical engineering and education that fosters collaboration and knowledge exchange primarily between higher education institutions, businesses, and governmental entities. This network will encourage interdisciplinary partnerships and drive innovation in the biomedical engineering field.

- Integration of NEM and STEM Principles:



The project aims to embed the New Educational Methodology (NEM) and STEM principles into current educational materials, providing a solid foundation for the development of future curricula at both higher education institutions and in the business sector.

- **Development of the E-COOL Platform:**

A pivotal component of the project is the creation of the E-COOL Smart Content Management System, an advanced web platform designed to integrate the established network and facilitate the creation of courses based on NEM and STEM methodologies. This platform will support the dissemination of educational content and resources in an accessible and interactive format.

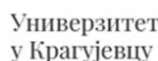
- **Promotion of Network Access and Long-term Sustainability:**

The project seeks to increase access to the collaborative network and NEM approach, ensuring that its impact is sustained through the effective use of the E-COOL platform and other available resources. This objective emphasizes the long-term development and sustainability of the initiatives initiated by the project.

## Project Consortium

The realization of the CALLME project is being led by a consortium of institutions, including:

- Technical University of Cluj-Napoca, Romania (Project Coordinator)
- University of Nis, Serbia
- Technical University of Riga, Latvia
- University of Dublin, Ireland
- University of Kragujevac, Serbia
- G.M Eurocy Innovations LTD, Cyprus



## 2. Summary of the CALLME training

The second training session related to the CALLME project was conducted at the Faculty of Engineering, University of Kragujevac. The session was attended by a group of students who expressed interest in specializing in biomedical engineering. The training aimed to introduce the participants to the core components of the CALLME project, the innovative educational methodology, and the E-COOL web platform.

### Training Structure and Content

The training consisted of the following key sections:

- Introduction to the CALLME Project:

The training began with an introduction to the goals and objectives of the CALLME project. Participants were familiarized with the concept of integrating New Educational Methodology (NEM) and STEM principles into biomedical engineering education. Emphasis was placed on the molecular (atomic) learning concept, which serves as the foundation for the project's innovative approach to medical engineering education.

- Demonstration of the CALLME Web Platform:

In the second part of the training, the entire CALLME web platform was presented. This included a walkthrough of the platform's functionalities, such as user registration and login processes, as well as how to navigate the platform. Participants were shown the available teaching materials and courses accessible through the platform, and were introduced to the concept of e-centers, which enable networking among stakeholders from academia, business, and the public sector.



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- Utilizing E-Centers and Networking:

The session also included a demonstration on the use of e-centers for fostering collaboration among various stakeholders involved in the project. The attendees were shown how e-centers facilitate knowledge exchange, enabling professionals from diverse sectors to network and collaborate on multidisciplinary projects.

- Discussion and Feedback

The final part of the training consisted of an open discussion. During the discussion, attendees raised several questions regarding the implementation and functionality of the web platform. A significant portion of the participants also expressed keen interest in the available courses and teaching materials offered through the platform. Some attendees provided valuable feedback, suggesting that the application should not be limited to biomedical engineering alone. They proposed expanding the platform's scope to encompass other fields, leveraging the versatility of e-centers to bring together professionals from various disciplines who are involved in multidisciplinary projects.



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### 3. Attendance

A training session was held at the Faculty of Engineering with a group of students from the Department of Computer Technique and Software Engineering, who expressed interest in specializing in biomedical engineering. During this training, the attendees were provided with an overview of the CALLME project, its objectives, and its educational impact on the field of biomedical engineering.

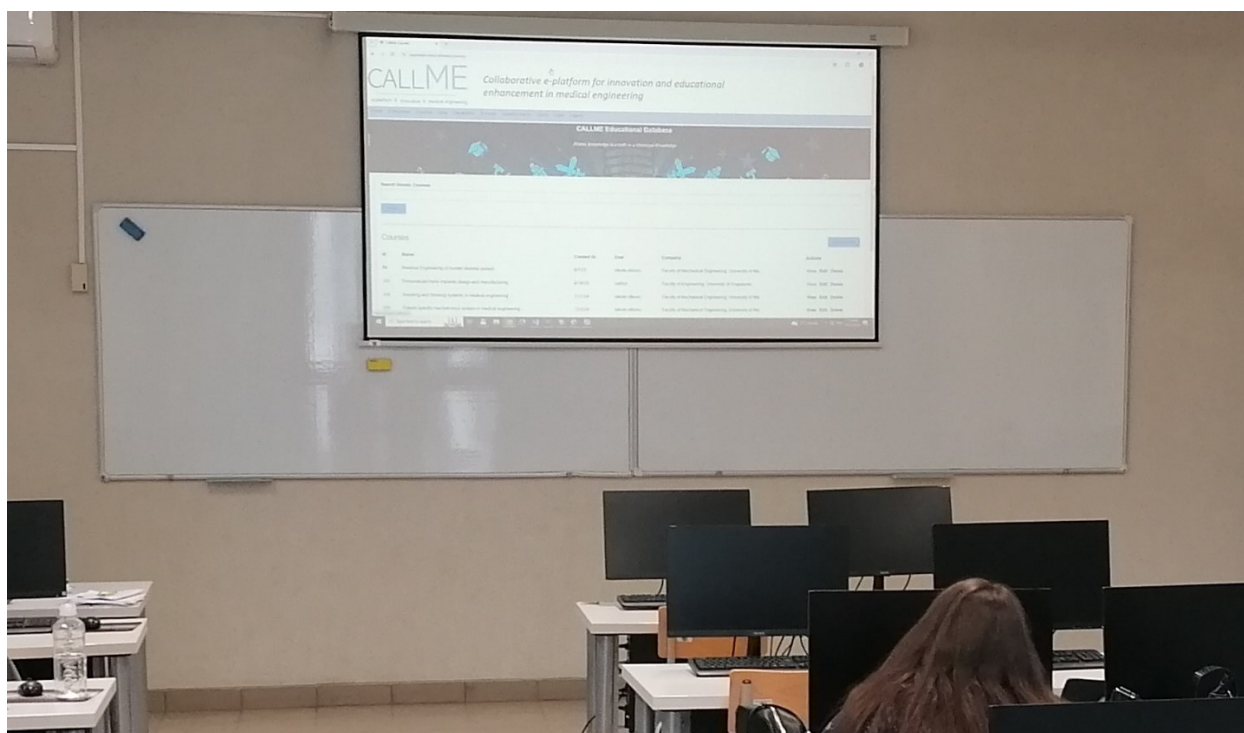
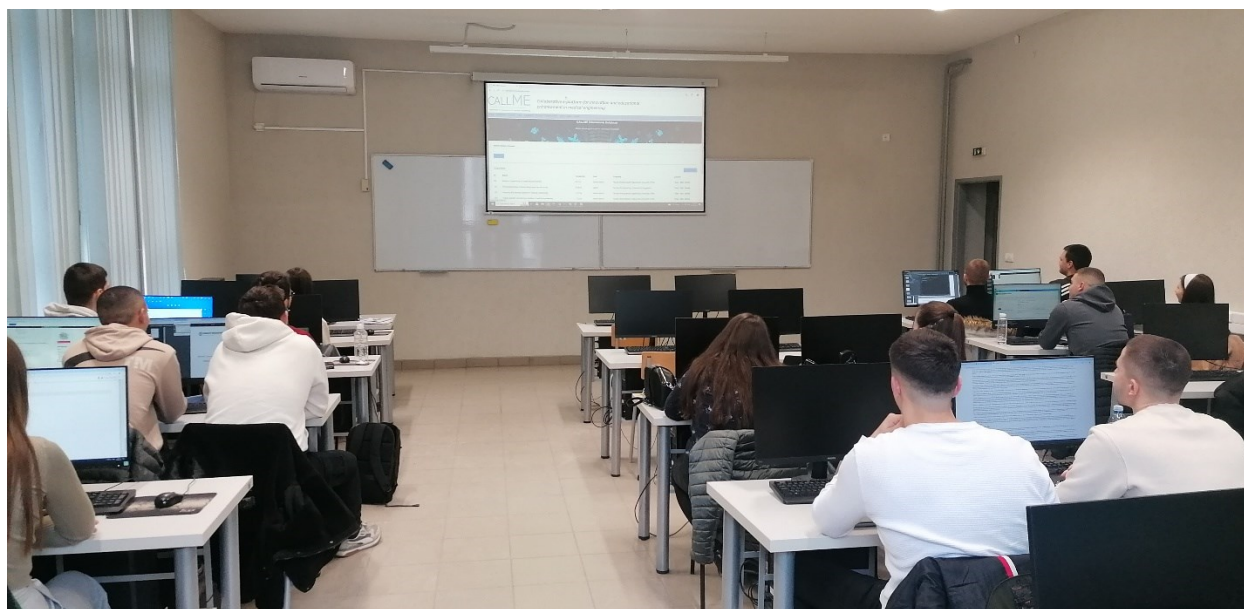
The session included a detailed presentation of the project's web platform, highlighting the available courses and teaching materials, as well as demonstrating the functionalities of the platform. Additionally, the concept and usage of e-centers were discussed, emphasizing their role in fostering networking and collaboration among stakeholders, including academia, industry, and the public sector.



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Below is a list of students who attended the session where is presented the C1 course – Personalized bone implants design and manufacturing, that was created as a result of the project.




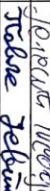





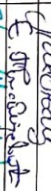

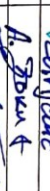









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Erasmus+ Programme – Cooperation partnerships  
Project No.: 2022-1-RO01-KA220-HED-000087703  
Title of the activity: Training  
Starting date: 06.11.2024.  
End date: 06.11.2024.  
Place: Faculty of Engineering, University of Kragujevac

## ATTENDANCE LIST Training activity

No.	Participant name	Sending organisation name	Sending organisation address (city, country)	Participant signature
1	Nenad Belović	Faculty of Engineering	Belgrade, Kragujevac	
2	Luka Radaičević	Faculty of Engineering	Serbia, Kragujevac	
3	Viktor Bekvaljević	Faculty of Engineering	Serbia, Kragujevac	
4	Milica Nedeljković	Faculty of Engineering	Serbia, Kragujevac	
5	Miroslav Jeković	Faculty of Engineering	Serbia, Kragujevac	
6	Radica Jeković	Faculty of Engineering	Serbia, Kragujevac	
7	Ornel Obradović	Faculty of Engineering	Serbia, Kragujevac	
8	Aneka Murenčević	Faculty of Engineering	Serbia, Kragujevac	
9	Anđela Stanićević	Faculty of Engineering	Serbia, Kragujevac	
10	Radica Stanićević	Faculty of Engineering	Serbia, Kragujevac	
11	Radica Stanićević	Faculty of Engineering	Serbia, Kragujevac	
12	Mirna Petrović	Faculty of Engineering	Serbia, Kragujevac	
13	Časla Dimitrijević	Faculty of Engineering	Serbia, Kragujevac	
14	Željka Petrović	Faculty of Engineering	Serbia, Kragujevac	
15	Emilija Stanićević	Faculty of Engineering	Serbia, Kragujevac	
16	Željka Stanićević	Faculty of Engineering	Serbia, Kragujevac	
17	Ljiljana Vinković	Faculty of Engineering	Serbia, Kragujevac	
18	Aleksandar Đorđević	Faculty of Engineering	Serbia, Kragujevac	
19	Lana Stanićević	Faculty of Engineering	Serbia, Kragujevac	



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## 4. Conclusion

As outlined in the previous section, the CALLME project aims to introduce an innovative educational approach known as the New Educational Methodology (NEM), which integrates STEM (Science, Technology, Engineering, and Mathematics) principles, particularly within the context of biomedical engineering education. The project's objective is to enhance existing educational frameworks by introducing these new methodologies to foster advanced learning in the biomedical engineering field.

Additionally, the CALLME project seeks to establish a virtual network—referred to as eCenters—that facilitates collaboration and knowledge exchange. This network will primarily connect higher education institutions, business entities, and public institutions, promoting interdisciplinary cooperation and advancing the field of medical engineering.

The second training session related to the CALLME project was held at the Faculty of Engineering, University of Kragujevac. This session was attended by a group of students interested in specializing in biomedical engineering.

The training was structured into several key sections:

- **Introduction to the CALLME Project:** The attendees were familiarized with the goals and objectives of the CALLME project, providing them with an understanding of its broader educational and collaborative impact.
- **Web Platform Content Demonstration:** A comprehensive demonstration of the web platform's content was presented, showcasing its educational resources and tools.
- **Course Demonstration:** Attendees were shown the various courses available within the platform, highlighting how they are structured to integrate NEM and STEM principles.
- **E-Center Usage Demonstration:** A demonstration of how to use e-centers was provided, illustrating how the platform facilitates networking and collaboration among stakeholders in academia, industry, and public institutions.



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- **Comprehensive Discussion:** The session concluded with a thorough discussion, allowing participants to ask questions and provide feedback on the project's implementation and the platform's functionalities.



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