

**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>March 2024.</b>
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## 1. Description of CALLME Project

The CALLME project aims to introduce a novel educational approach, named New Educational Methodology (NEM), and integrate STEM (Science, Technology, Engineering, and Mathematics) principles into medical engineering education. This innovative methodology will be integrated into existing educational frameworks, enhancing multiple curricula and courses as project results. Alongside NEM, a key outcome will be the development of an open e-platform, named E-COOL, fostering collaboration and knowledge sharing. This platform will facilitate the application of NEM, fostering a molecular network structure among entities within the 'triangle of knowledge'—business (experts from biomedical companies), innovation, and higher education institutions. It will further facilitate the enhancement of current curriculums and programs and the creation of new ones in higher education institutions.

The objectives of the CALLME project include the establishment of a network for medical engineering and education, fostering knowledge exchange and collaboration primarily among higher education, business, and governmental institutions. The project also aims to embed NEM and STEM principles into existing learning materials, laying the groundwork for future curricula in both the higher education and business sectors. Additionally, the project seeks to develop a web platform, the E-COOL Smart Content Management System, to integrate the established network and facilitate the creation of courses based on NEM and STEM methodologies. Promoting access to the network and NEM, as well as ensuring sustainability through the utilization of the developed E-COOL platform and other available resources, are also crucial objectives.

The consortium spearheading the realization of this project comprises the following institutions:

- Technical University of Cluj-Napoca, Romania (Coordinator)
- University of Nis, Serbia
- Technical University of Riga, Latvia
- University of Dublin, Ireland
- University of Kragujevac, Serbia



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- G.M Eurocy Innovations LTD, Cyprus

## 2. Summary of the CALLME training

The first training related to the CALLME project was held at the Faculty of Engineering at the University of Kragujevac. The training was attended by a group of students interested for specialization in the field of biomedical engineering.

The training consisted of the following sections:

- familiarizing the attendees with the goals of the CALLME project,
- demonstration of web platform content,
- demonstration of courses within the platform,
- demonstration of ways of using e-centers,
- discussion.

In the introduction, attendees had the opportunity to see the concept of the CALLME project, in terms of new learning methods and a concept of molecular (atomic) learning especially in the field of biomedical engineering.

Second part of training was presentation of whole CALLME platform, including web application, associated teaching materials in the form of courses available through the platform and demonstration of ways of using e-centers in terms of networking between all stakeholders involved in the project: academia, business and public sector. The attendees were shown the platform in its currently available form. The functionalities of the platform are explained in detail including user registration, user login, networking (through eCenters), searching for available courses and teaching materials, etc.

In the final part, a comprehensive discussion was held. During the discussion, the attendees asked questions about the implementation of the application (web platform), but also a large number of them showed interest in the available courses and the teaching materials contained in courses. The attendees even gave their proposals and suggestions that the application should not be



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limited only to the field of biomedical engineering, considering the versatile possibilities of e-centers to gather people from various professions who are engaged in multidisciplinary projects and jobs.

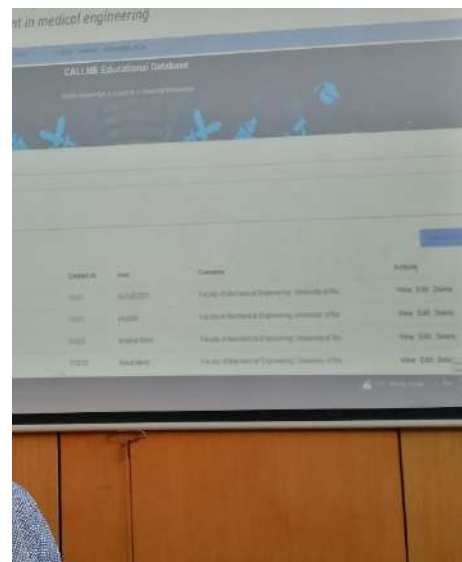
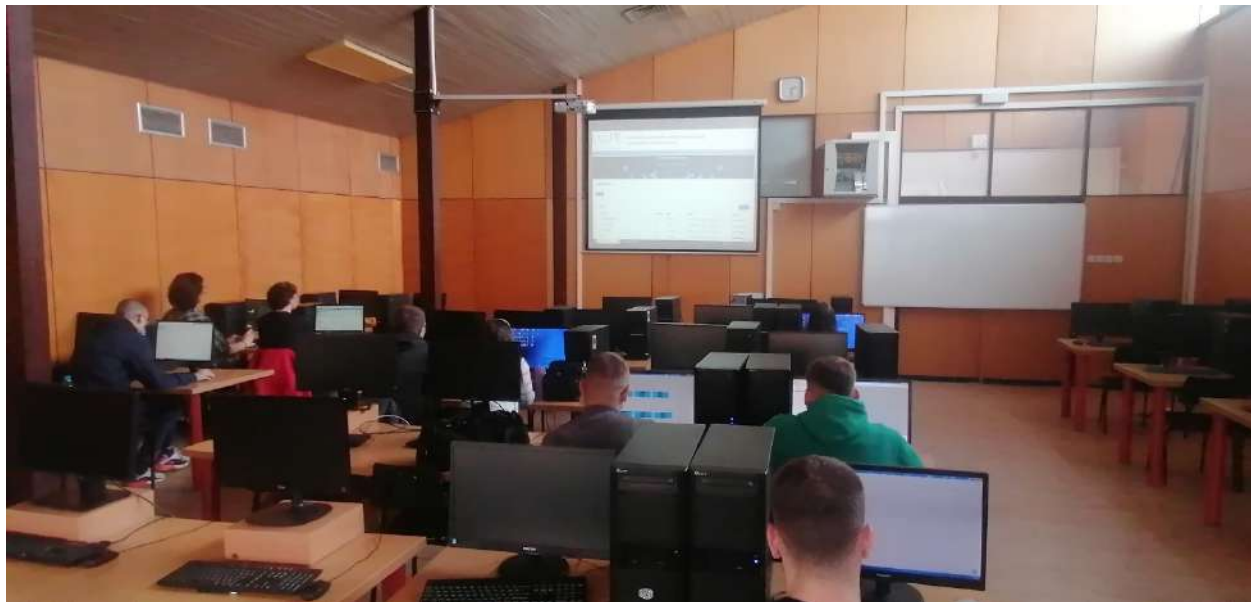


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### 3. Attendance

The training was held at the Faculty of Engineering with a group of students from department of computer technique and software engineering but interested for specialization in the field of biomedical engineering. During this training, attendees had the opportunity to see the purpose of the project, implementation of web platform, available courses and teaching materials, and definition and usage of e-centers in terms of networking.



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



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Erasmus+ Programme – Cooperation partnerships  
 Project No.: 2022-1-RD01-KA220-HEED-000087703  
 Title of the activity: Training  
 Starting date: 18.03.2024.  
 End date: 18.03.2024.  
 Place: Faculty of Engineering, University of Craiova

### ATTENDANCE LIST Training activity

No.	Participant name	Sending organization name	Sending organization address (city, country)	Participant signature
1.	Анита Мрђковић	UK	Kragujevac, Serbia	<i>[Signature]</i>
2.	Дуња Радоновић	UK	Kragujevac, Serbia	<i>[Signature]</i>
3.	Никола Ђорђевић	UK	Kragujevac, Serbia	<i>[Signature]</i>
4.	Григорина Дезић	UK	Kragujevac, Serbia	<i>[Signature]</i>
5.	Марко Петровић	UK	Kragujevac, Serbia	<i>[Signature]</i>
6.	Давид Милић	UK	Kragujevac, Serbia	<i>[Signature]</i>
7.	Микило Тимотијевић	UK	Kragujevac, Serbia	<i>[Signature]</i>
8.	Екатерина Јефтић	UK	Kragujevac, Serbia	<i>[Signature]</i>
9.	Урош Дедичић	UK	Kragujevac, Serbia	<i>[Signature]</i>
10.	Јелена Димитријевић	UK	Kragujevac, Serbia	<i>[Signature]</i>
11.	Марија Бајетић	UK	Kragujevac, Serbia	<i>[Signature]</i>
12.	Александар Савић	UK	Kragujevac, Serbia	<i>[Signature]</i>
13.	Ђорђе Милићевић	UK	Kragujevac, Serbia	<i>[Signature]</i>
14.	Саша Трипуновић	UK	Kragujevac, Serbia	<i>[Signature]</i>
15.	Нискола Машћ	UK	Kragujevac, Serbia	<i>[Signature]</i>
16.	Нереза Јовић	UK	Kragujevac, Serbia	<i>[Signature]</i>



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## 4. Conclusion

As mentioned in the previous section, the aim of CALLME project is to introduce a novel educational approach, named New Educational Methodology (NEM), and integrate STEM (Science, Technology, Engineering, and Mathematics) principles into the education especially in the field of biomedical engineering.

Also, the objective of the CALLME project is to establish a virtual network (eCenters) for medical engineering and education, fostering knowledge exchange and collaboration primarily among higher education, business, and public institutions.

The first training related to the CALLME project was held at the Faculty of Engineering at the University of Kragujevac. The training was attended by a group of students interested for specialization in the field of biomedical engineering. The sections that made up the training were: familiarizing the attendees with the goals of the CALLME project, demonstration of web platform content, demonstration of courses within the platform, demonstration of ways of using e-centers and comprehensive discussion.



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