



NEWSLETTER #4

JANUARY, 2026

We have unveiled our **FuturENG Experience Report** with insights from our journey to transform engineering education. At its core are two learning resources: the **Tech Essentials MOOC** and the **Challenge-Based Learning (CBL) Toolbox**, both designed to blend theory with practical, real-world challenges.

Across **Romania, Lithuania, and Austria**, **114 students** from diverse STEM backgrounds piloted these tools. The received feedback from them highlighted the clarity, usability, and relevance of the learning materials, with students valuing how theory connected to real-world applications and collaborative problem-solving.



THE FUTURENG EXPERIENCE REPORT IS NOW LAUNCHED

WHAT YOU MAY FIND IN IT?

- A structured overview of how the project's learning activities were designed, implemented, and assessed. We have described our methodology, including data collection methods and validation processes to show the importance of grounding the FuturENG materials in student feedback and insights to ensure practicality.
- A dedicated section on key activities that examines the pilot implementations in partner universities, the **FuturENG Digital Hackathon**, and the **Learning, Teaching and Training Activity (LTTA)** hosted by ISQ in Portugal, analysing their contribution to engagement, skills development, and interdisciplinary learning.
- A dedicated critical reflection section that analyses what worked well, where improvements are needed, and how challenge-based learning can be strengthened in engineering education.
- Overall results summary, recommendations and next steps in relation to educator support, curriculum integration, and the wider uptake of FuturENG tools.



ACCESS THE REPORT HERE



OUR NEWS

The FuturENG team has produced the first draft of the Training Guide & Roadmap for Higher Education (HE) educators (R3) - a practical resource designed to help lecturers bring the Tech Essentials MOOC and Challenge-Based Learning (CBL) Toolbox into engineering curricula. This guide supports educators in teaching complex technical concepts while promoting digital, green, and transversal skills, helping students develop the competencies needed for Industry 5.0 and the twin transition to a sustainable, digital future.



The guide will offer advice for delivering e-learning lessons and learning through webquests as structured, challenge-based activities that let students apply knowledge to real-world problems. It will contain strategies for creating inclusive learning environments, cultural backgrounds, and learning preferences.

WITH THE TRAINING GUIDE & ROADMAP, FUTURENG IS EMPOWERING EDUCATORS TO BRING INDUSTRY 5.0-READY SKILLS INTO CLASSROOMS AND HELP SHAPE THE ENGINEERS OF TOMORROW

UPCOMING IN FEBRUARY-MARCH 2026

TRAIN THE TRAINER WORKSHOPS FOR EMPOWERING EDUCATORS

WHAT?

Train the trainer workshops in the partner universities in **Romania**, **Austria**, and **Lithuania** set to offer educators in technical disciplines practical guidance on how to integrate the **FuturENG MOOC** and **Challenge-based learning toolbox (CBL)** in the courses they teach.

WHO IS IT FOR?

HE lecturers, trainers, and academic staff involved in engineering or STEM education who are interested in innovative pedagogy, digital tools, and sustainability-focused learning.

HOW TO JOIN?

Visit our website at <https://futureng.projectsgallery.eu/> and use the contact form to express interest or contact the participating universities directly:

- The George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș (Romania);
- Kaunas University of Technology (Lithuania);
- FH Joanneum University of Applied Science (Austria);

YOU HAVE A CHANCE TO GAIN ACCESS TO FUTURENG RESOURCES, CONNECT WITH A NETWORK OF PEERS, AND HELP STRENGTHEN THE FUTURE OF ENGINEERING EDUCATION ACROSS EUROPE!
JOIN US TODAY!