

The graphic features a central blue globe with a glowing city skyline. A white robotic arm is on the left, and a human hand is on the right, both reaching towards the globe. The word 'FUTURENG' is written across the globe in a stylized, purple-to-white gradient font. The background is dark blue with a network of white hexagons and lines.

FUTURENG

Shaping the Engineers of Tomorrow

Project № 2023-1-RO01-KA220-HED-000155387

After three years of collaboration, research and testing across Europe, FuturENG leaves behind innovative resources preparing engineering education for Industry 5.0 and the digital and green transitions..

Bringing together higher education, research and industry, the project has developed practical tools for students, educators and institutions.

Explore the four key FuturENG results and continue the journey!

**3 YEARS | 4 RESULTS | HACKATHON | MOBILITY | 3 WORKSHOPS | 7 EVENTS |
HUNDREDS OF UNIVERSITY STUDENTS & LECTURERS REACHED**



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THE TECH ESSENTIALS MOOC

The FuturENG Tech Essentials MOOC is a flexible online learning programme designed to equip engineering and STEM students with the knowledge and skills needed for Industry 5.0. Its five modules and 24 lessons cover future engineering, Deep Tech, AI, the twin transition, and the social, environmental and ethical implications of disruptive technologies. The MOOC combines concise learning content with quizzes and practical examples and can be used for independent learning or integrated into existing higher education courses. Its modular structure also allows educators to adapt learning pathways to different learner profiles and levels.

TRAINING GUIDE & ROADMAP FOR HEI EDUCATORS

The FuturENG Educators' Guide & Roadmap supports higher education lecturers and institutions in integrating Industry 5.0 and Challenge-Based Learning into engineering curricula. It provides practical guidance on using the MOOC and WebQuests, assessment and micro-credentials, alongside a strategic pathway for embedding FuturENG resources into existing or new study programmes.

KNOWLEDGE TRIANGLE COOPERATION METHODOLOGY

The FuturENG Knowledge Triangle Cooperation Methodology provides a practical framework for strengthening collaboration between higher education, research and industry. Drawing on the FuturENG experience, it offers best practices and tools for building partnerships, aligning education with labour-market needs, co-designing learning and supporting sustainable, future-oriented cooperation.

CHALLENGE-BASED LEARNING TOOLBOX

The Toolbox transforms knowledge into practice through 9 WebQuests linked to the MOOC. Students explore real-world challenges related to Deep Tech, AI, human-robot collaboration, prompt engineering, cybersecurity. Through investigation, teamwork and problem-solving, the WebQuests help learners apply technical knowledge while developing transversal skills such as critical thinking, creativity, communication, collaboration and sustainability awareness.



FIND OUR RESOURCES HERE:

www.futureeng.projectsgallery.eu



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