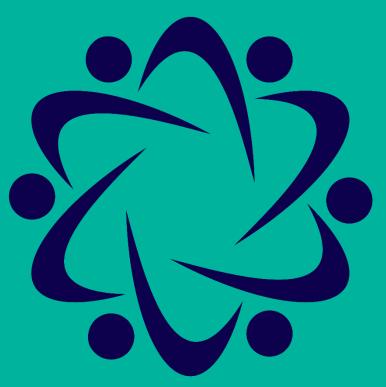
International Cooperation Framework for Next Generation Engineering Students

Anneli Kakko

Jamk University of Applied Sciences

SEFI Conference 2023 11-14 September, Dublin

















Content

- 1. Basic information
- 2. Partners
- 3. Work packages
- 4. Implementation
- 5. Outcomes
- 6. Next steps

1. Basic information

International Cooperation Framework for Next Name

Generation Engineering Students

NextGEng Acronym

Webpage www.nextgeng.eu

Funded Erasmus+ Cooperation partnership in higher

education

Implementation October 2022 - September 2025

to develop an international cooperation frameworkto promote international team-teaching aligned Aims

with the European Education Area 2025 and labour

market needs

- to support collaborative, international, and experiential learning in engineering

2. Partners

Country	Name	Acronym	Website	Leader of
Romania	Technical University of Cluj- Napoca	TUCN	www.utcluj.ro/en	WP1 and WP3
Romania	Robert Bosch SRL	BOSCH	www.bosch.ro/en/	
Finland	JAMK University of Applied Sciences	JAMK	www.jamk.fi/en/	WP2 and WP6
Finland	Valmet Technologies Oyj	VALMET	www.valmet.com	
Spain	J	UJA	https://www.ujaen.es/en	WP4 and WP5
Spain	Sensory Integration and Robotics	ISR	https://isr.es/company/	







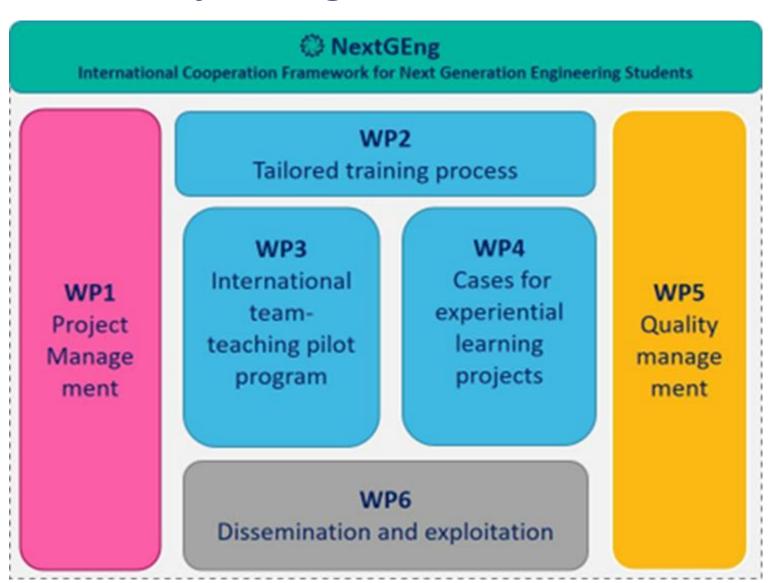








3. Work packages



4. Implementation

WP2 Tailored training process

Two rounds of tailored training stimulate teachers for innovative learning and teaching practices and the development of an international team-teaching pilot program.

Teachers are trained in team-teaching, problem-based learning, flipped learning, and student-centered learning methods.

In tailored training workshops, teachers plan and design six chosen courses in a student-centered way.

4. Implementation work packages ...

WP3 International team-teaching pilot program

Six engineering courses of every HEI partner's curriculum are upgraded by applying new teaching methods and updating existing content and materials in close collaboration with company partners.

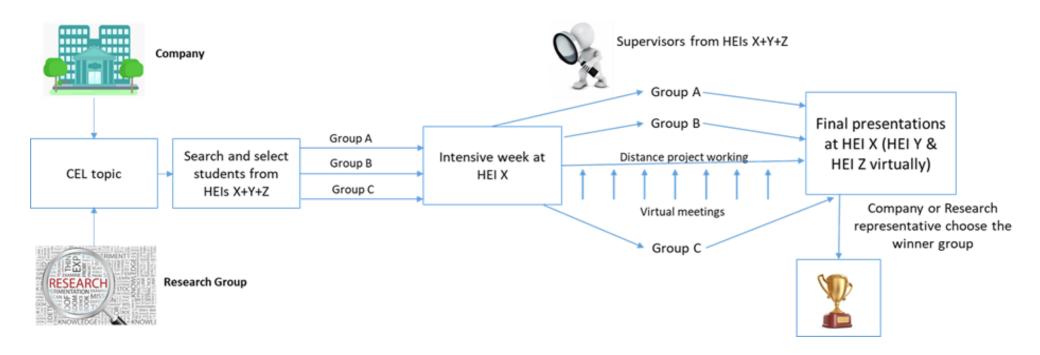
For each course, teachers from all three HEIs and company experts form an international co-teaching team.

Six courses are Strengths of Materials, Industrial Automation, Design Project, Quality Assurance and Applied Methods, Computer-Aided Design and Manufacturing Technologies.

4. Implementation work packages ...

WP4 Cases for experiential learning (CEL) projects

Two rounds of one-semester projects where international student groups solve research or an industry-specific topic in direct collaborations with teachers and company experts.



5. Outcomes

Spring 2023

The teams for 1st round of tailored training and co-teaching were formed

Update of team-teaching courses was started

Autumn 2023

Four of six team-teaching courses' implementation in all three HEIs

Teaching mobilities from three HEIs start

The update of team-teaching courses continues

The 1st round of CEL projects' topics ready

6. Next steps

Spring 2024

The 2nd round of tailored training

The update of team-teaching courses continues

Teaching mobilities from three HEIs continues

The 1st round of CEL projects' implementation => student and teacher mobilities

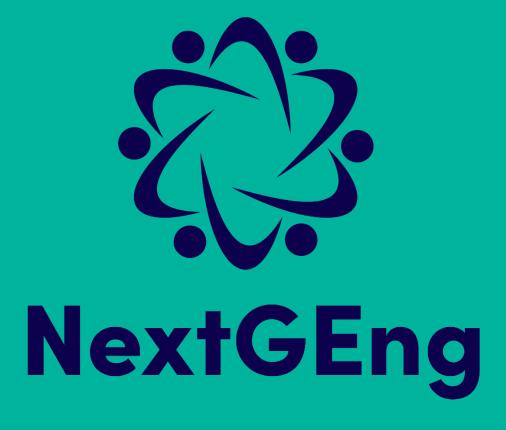
Autumn 2024

Two of six team-teaching courses' implementation in all three HEIs Teaching mobilities from three HEIs continues

The 2nd round of CEL projects' topics ready

Thank you very much for your attention!

Anneli Kakko Jamk University of Applied Sciences anneli.kakko@jamk.fi



www.nextgeng.eu













