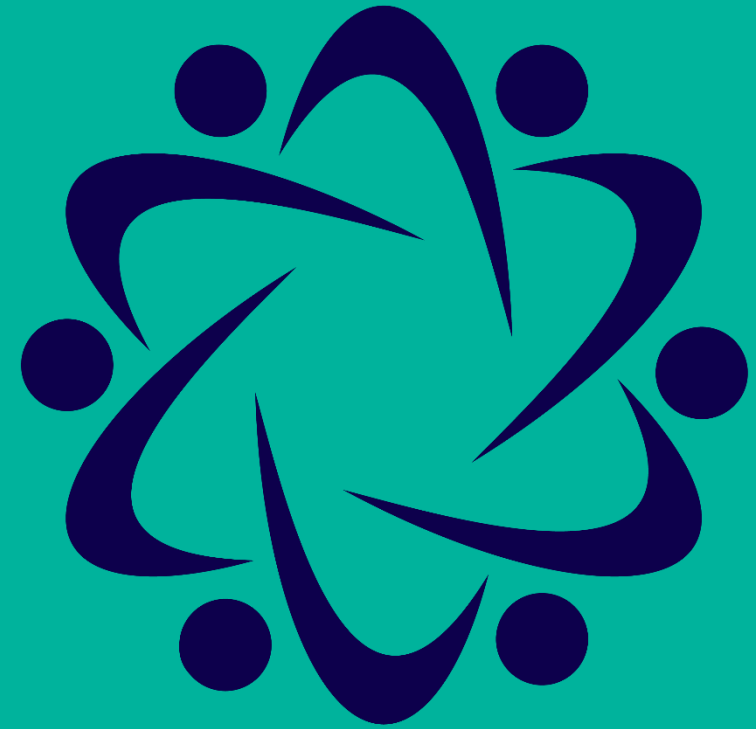


International Cooperation Framework for Next Generation Engineering Students



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Universidad de Jaén



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1. Basic information

Name	International Cooperation Framework for Next Generation Engineering Students
Acronym	NextGEng
Webpage	www.nextgeng.eu
Funded	Erasmus+ Cooperation partnership in higher education
Implementation	October 2022 - September 2025
Aims	<ul style="list-style-type: none">- to develop an international cooperation framework- to promote international team-teaching aligned 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	University of Jaen	UJA	https://www.ujaen.es/en	WP4 and WP5
Spain	Sensory Integration and Robotics	ISR	https://isr.es/company/	



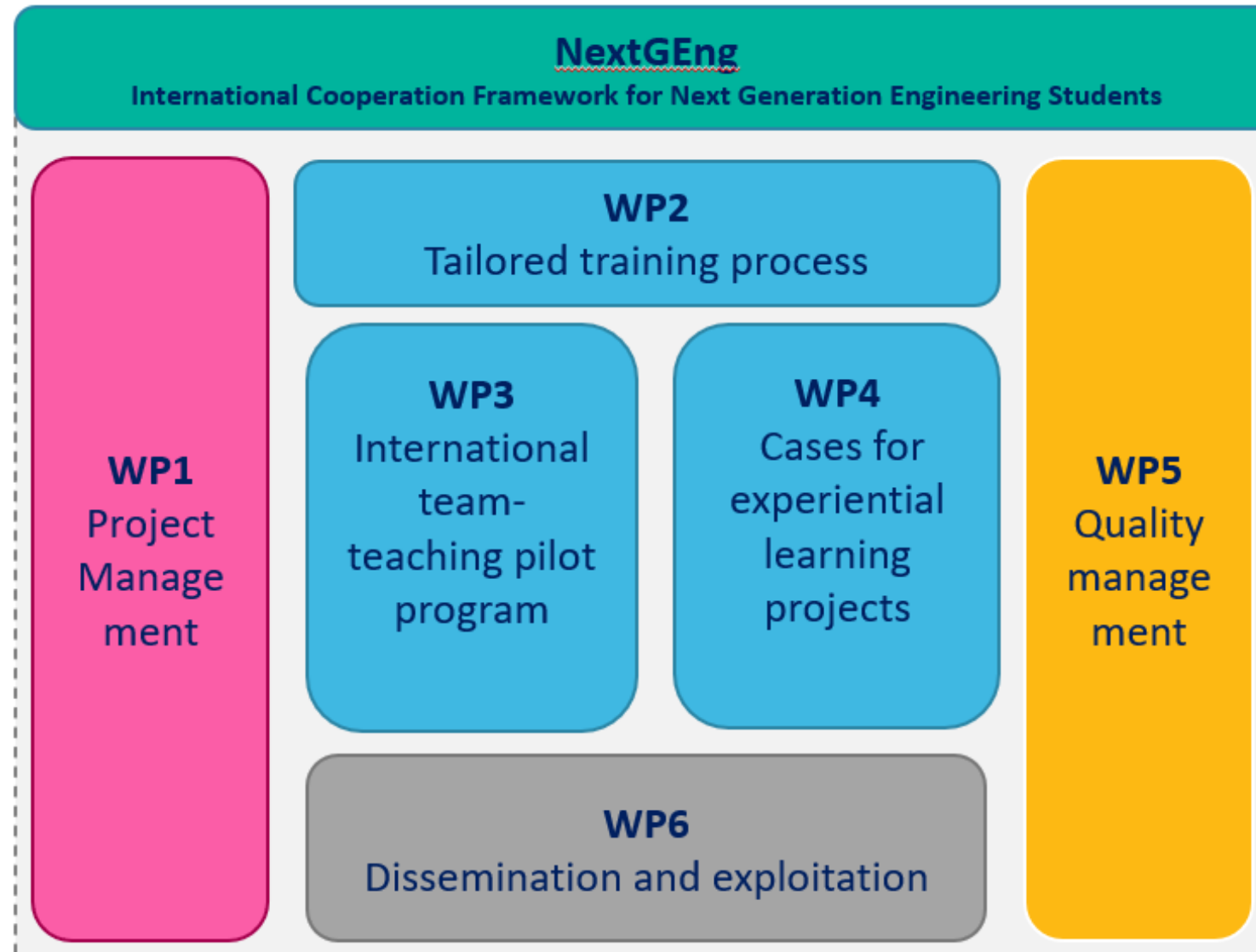
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3. Work packages



4. Implementation work packages

- 4.1. Tailored training process (WP2)**
- 4.2. International team-teaching pilot program (WP3)**
- 4.3. Cases for experiential learning (CEL) projects (WP4)**

4.1. Tailored training process (WP2)

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.

NextGEng partners at Tailored training seminar at JAMK in Jan. 2023



4.2. International team-teaching pilot program (WP3)

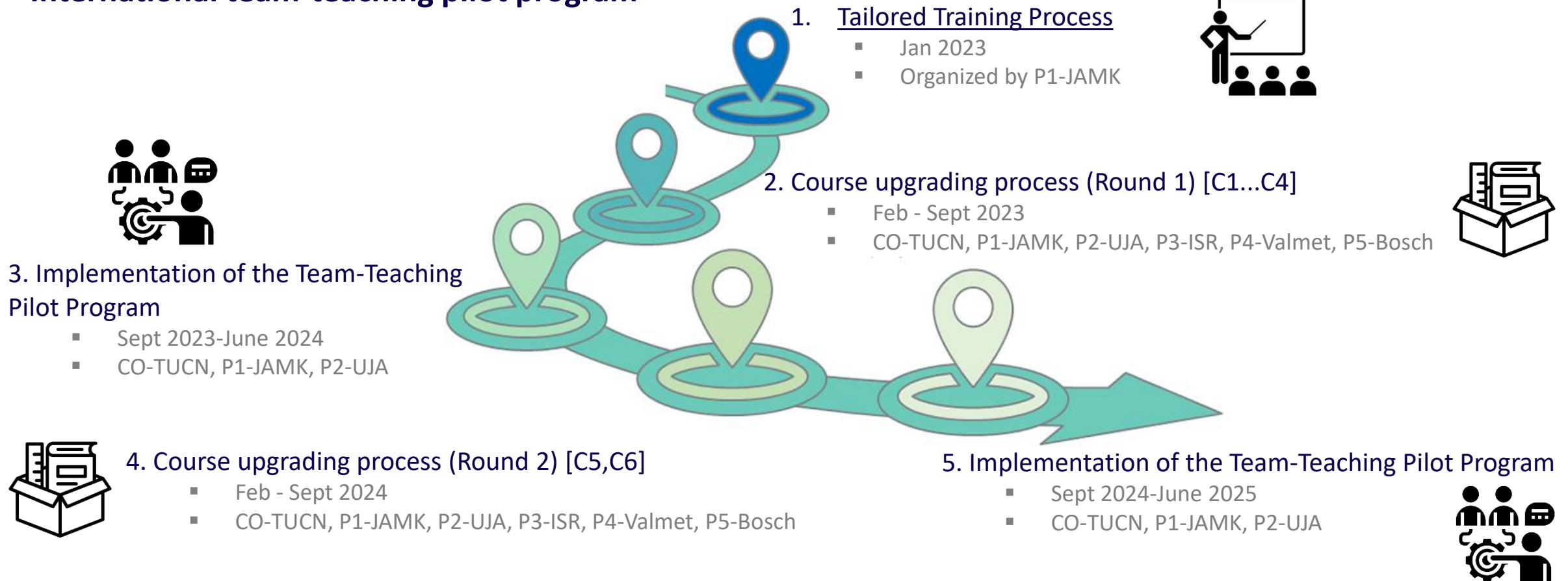
Six engineering courses of every HEI partner's curriculum are upgraded by applying new teaching methods and updating existing content and materials in close collaboration with company partners.

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

Six courses are C1_Strengths of Materials, C2_Industrial Automation, C3_Design Project, C4_Quality Assurance and Applied Methods, C5_Computer-Aided Design and C6_Manufacturing Technologies.

4.1. & 4.2.

International team-teaching pilot program

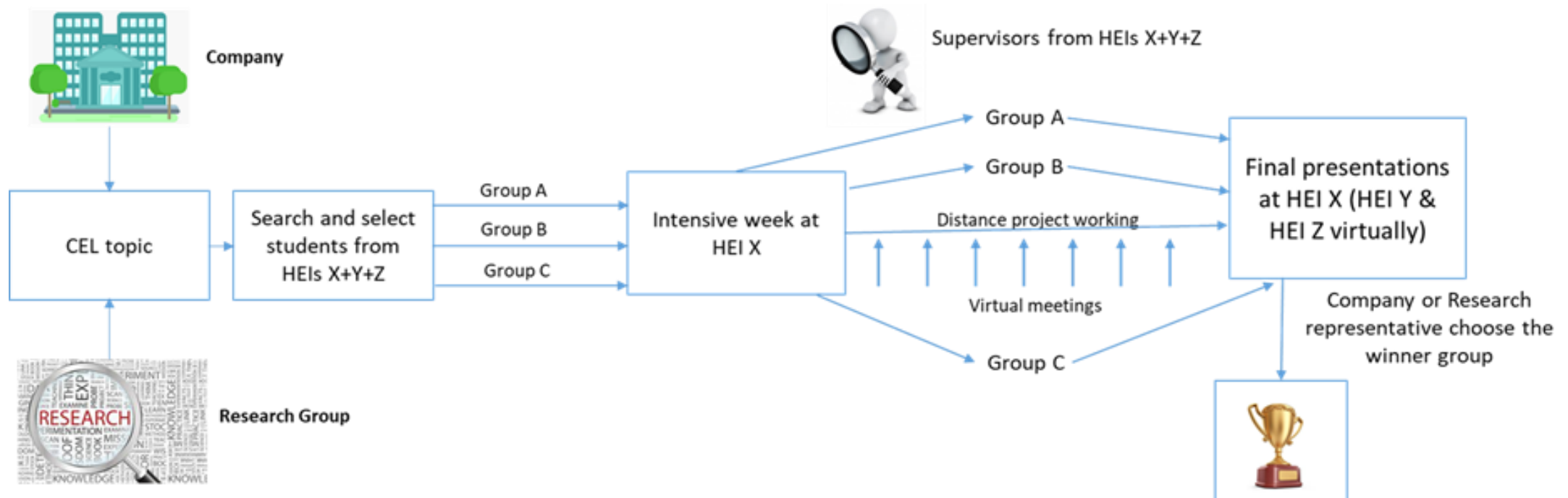


Some photos from International team-teaching pilot program activities



4.3. Cases for experiential learning (CEL) projects (WP4)

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 the 1st round of tailored training and co-teaching were formed
- Updating of team-teaching courses was started

Autumn 2023

- Four of six team-teaching courses' implementations in all three HEIs
- Teaching mobilities from all three HEIs
- Updating of team-teaching courses continues
- The 1st round of CEL projects' topics and contents ready

6. Next steps

Spring 2024

- The 2nd round of tailored training
- Updating of team-teaching courses continues
- Teaching mobilities from all three HEIs continue
- Implementation of the 1st round of CEL projects => mobilities of students and teachers

Autumn 2024

- Two of six team-teaching courses' implementation in all three HEIs
- Teaching mobilities from all three HEIs continue
- The 2nd round of CEL projects' topics and contents ready

Thank you very much for your attention!

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