

Creativity for Higher Education Engineering Teachers

CHET aims to address Technical Higher Education (HE) Teachers, with the skills and competences to embed innovation and creativity in their teaching activities. HE Teachers will be able to prepare their students better for the labor market and contribute to the reduction of university. To make this happen the project will develop learning materials and content, based upon the needs of teachers and universities, delivered through the CHET app and learning environment, which will allow them to implement learner-centered learning approaches which foment creativity and innovation among their students (aged 18-25) and increase their interactive learning with teachers and peers in the school setting.



Latest Results & Resources

Over last months, the CHET partnership developed our first resource:

“101 – CHET Curriculum Design and Development”.

More info and download the full document:
<http://chetproject.eu/en/resources>

CHET Project methodology is step-by-step process, support by ADDIE teaching design model. ADDIE was chosen because it is (i) a very well-known instructional design model, (ii) practiced in many different fields and (iii) used in different cultures.

In the analysis phase, needs of the learners are determined and analyses for these needs are carried out. At this stage, many data collection and analysis techniques are used when determining the needs. It is decided to use the **Delphi Technique** to collect data for the analysis phase.

This process went through **2 rounds of analysis survey**, total of 101 participants attended the first round and 66 participants attended the second round from **engineering higher education entities from Spain, Turkey, Denmark and Lithuania**.

One of the most important result is that **97% of the respondents think that there is a need for a training** on how to use creative teaching techniques/methods.

Besides, mainly Higher Education teachers believe that **creativity techniques will offer students more solutions** to tackle specific problems (i.e.: problem-based learning, design thinking, ...).

Creative teaching methods / techniques could **improve the motivation and engage students**, make them experiment more, open up different perspectives when analyzing a problem, even find a subject more interesting and develop critical thinking skills.

In summary, a first remarkable result of the CHET project, Higher Education teachers need more training, tools and resources in creativity, and **they consider creativity skill has great potential to improve student aptitudes during their university studies** in other fields.

CHET TRAINING CURRICULUM

General Objectives of the Program, HE teachers will be able to:

- ✓ Use creative techniques in their teaching processes,
- ✓ Know how to use collaborative techniques in connection with creative teaching techniques,
- ✓ Use and find new, creative ways to motivate their students in their learning process,
- ✓ Design teaching processes based on creative thinking skills,
- ✓ Have the skills to use creativity related technological tools during the teaching process,
- ✓ Know how to evaluate the students' creative learning process.

Qualifications expected to be gained by teachers:

- ✓ Creative learning techniques,
- ✓ Motivation skills related to creativity,
- ✓ Creative thinking related to creativity,
- ✓ Problem solving skills,
- ✓ Digital skills related to creativity,
- ✓ Evaluation skills related to creativity.

Program Content

The program is set as 3 units and can be completed between 18 to 25 hours:

- **Unit 1. Introduction to Creativity (6-8 hours)**
It provides HE engineering teachers with a definition of creativity, phases of the creative process and examples for creative thinking.
- **Unit 2. Creativity Techniques Toolkit (The Toolkit; 6-8 hours).**
A collection of techniques classified according the categories below and according to a set of criteria.
- **Unit 3. Creativity and Technology in Teaching (6-8 hours)**
Focused in how to use technology with creativity techniques, the methods and tools for teaching using creative techniques.

Highlights and Meetings

PROJECT WEBSITE LAUNCHED

Visit us at www.chetproject.eu



OUR FIRST MEETING IN ATHENS (GREECE)

On December 2019, we met in Athens and become this ambitious project!



2020 MEETINGS

During 2020, due the COVID-19 pandemic, we have met using an online platform, we desire meeting again face to face, while we are working and learning together with creativity and open mind!



Next Steps

We are working in develop contents of learning program: including creativity methods and techniques.

Stay tuned for the next few weeks and follow our news on social media and the website!

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PROJECT PARTNERS



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