



“STEAM Capacity Building”



Erasmus+

TEACHERS' PROFESIONAL DEVELOPMENT PROGRAMME

Course Summary

In-service training/professional development program (PDP) is aimed to support development of teachers' competences and raise their awareness in the current educational needs, challenges and trends. The programme is designed for teachers of basic education and offers a set of 4 thematic modules which will cover integrated teaching skills based on STEM & STEAM (teacher's STEM capacities development in the classroom), competencies that teachers and educators need to effectively facilitate students' learning process, to enable them to develop those social and cognitive skills needed for successful personal development and professional career. The four modules (40 hours, face-to-face training) are STEM & STEAM, From theory to practice,

Collaborative problem solving & Problems based learning, Assessment & validation of students learning achievements. This is the result of a KA2 Erasmus+ project “STEAM CAPCITY BUILDING”.

The course is eligible for funding from Erasmus+ Programme

Target Group

The course is addressed to:

- ✓ Teachers;
- ✓ School principals;
- ✓ School administration staff;
- ✓ Other education management staff;

Participants should come from one of the European [countries eligible](#) for Erasmus+ projects.



EPIMORFOTIKI
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Program Developers:

- [Ugdymo Pletotes Centras](#), Vilnius, LT
- [Epimorfotiki Kilkis, Kilkis](#), GR
- [CAFI \(Centro Autnómico de Formación e Innovación\)](#), Santiago De Compostela, ES
- [CREF EDUCATION \(Centro de Recursos Educativos e Formação\)](#), Sesimbra, PT
- [DIDE KILKIS](#), Kilkis GR
- [Amsterdam University](#), NL

*It is important to note that
"Individuals cannot apply
directly for a grant".*



Enrolment

An eligible participating **organization/institution** must apply for a grant to the [National Agency](#) of Erasmus+ Programme in the country in which the applicant organization is established.

Applicants have to submit their grant application by **5 February 2019 at 12.00** (midday Brussels time) for projects starting between 1st June and 31st December of the same year.

Who can attend the course

Participants must be aged 18+ and be residents in the country of the nominating partner organization.

Staff engaged in primary and/or secondary education, in a working relation with the sending education institute(s), as well as staff involved in the strategical development of the institute(s).

Maximum number of participants: **20**

National Agencies may organize a second round of applications. In that case, applicants have to submit their grant application by **4 October at 12.00** (midday Brussels time) for projects starting between 1st January and 31st May of the following year.

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Location and Dates

The course takes place in [Thessaloniki](#) (GR) on:

- 25 Aug.2019 - 31 Aug. 2018
- 15 Sep.2019- 21 Sep. 2019
- 06 Oct.2019 – 12 Oct. 2019
- 08 Mar – 14 Mar 2020
- 29 Mar – 04 Apr 2020
- 10 May – 16 May 2020

Epimorfotiki's Pic Number:
949382651



Costs/Funding Opportunities

Each participant will be charged **500€** for the 5 days training course. This fee is analysed as follows:

A) **Course Fee:** 5 days course X 70,00€ per day= **350€**

B) **Organization Support:** Each participant receives 350€ for "Organization Support". Epimorfotiki Kilkis will charge each participant **150€** for administration and organization costs (preparation educational activities, cultural activities, learning validation and

The course is eligible for funding from Erasmus+ Programme Key Action 1 (KA1)

Apart from the above fees, the funding from Erasmus+ also covers:

- 1. Travel costs.** It refers to the travel from the place of origin to the venue of the activity and return. The amount is based on the travel distance and is calculated using the [distance calculator](#) supported by the EC.
- 2. Accommodation and Meals.** These costs are covered through "Individual Support" of the Erasmus+ Grant. The amount depends on the Country where the course is delivered. For Greece the amount between 70 and 140€ per day and is specified by the National Agency in participants country. This amount covers the

cost of the hotel and the meals during participants' stay in Greece. The participant can arrange by himself the hotel and choose where to spend the meals. On the other hand, Epimorfotiki Kilkis can support participants by proposing solutions both for the hotel as well as for the meals.

Epimorfotiki Kilkis is committed to assist and to support participants' organization during the submission phase by providing participants with the necessary information, materials and documents.

certification with "Europass Mobility")

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Preparation

The participants' preparation begins along with their enrolment in the course. The trainers and a Tutor, who will be assigned, will have the task to manage the preparation. The Tutor will respond quickly to questions or requests from candidates, and to keep in touch regularly. Preparation will be based on Epimorfotiki's **e-learning Moodle Platform, on social media and emails.** Participants, following their enrolment will be asked to access the Platform, where most of the training materials will be available.



Together with the educational material, during preparation participants will:

- for preparatory purposes, so that they can get acquainted with the main thematic that the course will deal with and the expected level of technical language;
- ✓ be invited to answer a Questionnaire related to their specific skills, i.e. on digital competencies, gamification, on STEAM techniques, on collaborative problem solving methods etc., their expectations, as well as suggestions about topics to go

Participants need to have some fluency in English (level B2) and also be PC literate;

- ✓ be acquainted on the use of the Moodle platform;
- ✓ receive information about culture, customs and everyday life in the hosting country, as well as the cultural programme during their stay in Greece.

Collection of participants' individual profiles beforehand will help organizers to fine-

✓ receive texts, videos and any other training material related to the course topics

selves and their “culture” in a 3 minutes presentation, thus contributing to know each other and to improve the ambience of the course. The preparatory phase is important because it allows organizers to get acquainted with the team of participants, to identify their needs and knowledge level, thus to deliver a course that will satisfy fully the needs of each individual. The task assignment aims at self-preparation, and it also might help participants to get more easily acquainted with the specific learning situations they will encounter.

deep into, or treated as examples.

tune contents and objectives. Participants will be given the opportunity to present them-

Aim of the Programme

Strengthen didactic and key competences of teachers in the fields of STEAM, collaborative problem solving; raise their awareness about changing role of teacher, innovative methods of teaching and learning; share good practices in the fields of STEAM, collaborative problem solving.



Objectives

The **Objectives** of the course are:

- Raise participants’ awareness of the needs of changing the education paradigm by engaging them into debate about their learning-teaching practices by sharing and exchange their own opinions and experiences;
- Help participants to improve everyday teaching practice by strengthening their methodological background using a holistic approach to develop key competences and transversal skills of students;
- Enable participants to enrich their teaching practices by using innovative tools, techniques and ways (e.g., STEAM, collaborative problem solving, etc.) to make teaching and learning more understandable, attractive and motivating;
- Foster innovative and critical thinking of participants by using collaborative team work;
- Enrich teaching and learning content and process through strengthening responsibility, balancing evaluation and learning strategies, enhancing



Thematic Field of the Programme (Modules)

- ✓ STEM & STEAM
- ✓ From Theory to Practice
- ✓ Collaborative problem solving & Problems-based Learning

cross-thematic approach and strengthening team work and co-operative skills of participants. ✓ Assessment & Validation of Students Learning Achievements

Skills to be developed

Module: STEM & STEAM

- Analytical and critical thinking, research skills
 - Engineering skills
- Ability to integrate different thematic areas
 - Creativity and initiative
 - Perceptiveness
 - Adaptive thinking
- Ability to solve problems
- Ability to work together

Module: From Theory to Practice

- Learning to learn competence
 - Digital competence
- Personal and social responsibility
- Ability to reflect on STEAM approach in relation to your own way of teaching

Module: Collaborative problem solving & Problems based learning

- Ability to explore and backup knowledge
- Ability to understand and identify roles, strengths and weaknesses of the team
- Ability to monitor and review a common understanding, achieved results and evaluate the success

Module: Assessment & validation of students learning achievements

- Thinking and working interdisciplinary
 - Ability to acknowledge skills
 - Ability to evaluate skills and competences
- Ability to assess different thematic areas
- Ability to understand and identify roles, strengths and weaknesses of the team
 - Emotional Intelligence, leadership
 - Investigate a scientific question

Methodology

Participants are supposed to be experienced in education matters, as well as in their own educational system and practices; therefore, course provider intends to facilitate this expertise in a way that profits the whole group. On this regard, the course planning takes into consideration:

- the methodology used emphasizes participants' active involvement in the process with presentations on specific topics, case studies taken from participants' own experience to be discussed. This way participants may learn with and from each other which can help learners to develop particular professional skills'
- less traditional teaching in the classroom and more practicing and use of appropriate tools, collaborative environments, workshops, according to the participants' skills and background;
- a balanced rotation between group activities and individual learning is adopted to keep participants attention vivid;
- a new pedagogical approach, a variety of training methods and working techniques are offered in correspondence to the participants' different learning styles: Gamification methodology, STEAM techniques, Collaborative Problem Solving methods in order to strengthen didactic and key competencies of teachers;
- organizers adopt a flexible time management during the course in order to meet different expectations in the group. Also, changing methods, regular breaks, pauses for own reflection, energizing games, and other balancing activities are adopted to compensate the demanding situation to work in a foreign language.

Follow-up

Course provider will apply some methods and tools that might help participants' follow up

- ✓ Use of Epimorfotiki's e-learning Moodle Platform, so as to provide to the group the opportunity for mutual exchange of experiences and materials and to communicate with the tutor and the trainers;
- ✓ Participants will be supported to establish their own forum, by doing it together during the course;
- ✓ In a pre-determined time after the course a Questionnaire will be send to the participants about the impact the course had and how did they apply the acquainted knowledge;

- ✓ The network composed by educational institutions and adult teachers/trainers established during (and as a result of) the course in order to facilitate the exchange of experiences, best practices and information on innovative developments will be supported and fostered.

The whole follow-up process is planned in a way to allow participants to test, evaluate, complete and upgrade the knowledge acquired.

CERTIFICATION

Participants will get:

- a Certificate of Attendance, issued by Epimorfotiki Kilkis, and;
- the [Europass Mobility Certificate](#)



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