# Newsletter

## *STEMKIT Curriculum*

A complete curriculum has been designed by the partners of the project to answer the goals of STEMKIT4Schools. Concentration has been put on the following topics which correspond to the training modules:

Introduction to Scratch 2.0

Scratch GPIO (Control GPIO pins/receive inputs)

Introduction to Raspberry Pi Edition of Minecraft

Raspberry Pi GPIO programming using Python

Physical Computing



Each of the modules has been prepared following a similar structure of information: glossary terms, main training content, practical examples, assessment, references, additional resources and general conclusions.

The re-purposed STEMKIT Curriculum, using instructional design principles, will be available in English, French, Greek, Polish, Portuguese and Romanian inside the Learning Portal in the form of interactive Learning Objects.

### PROJECT RESULTS

The following results will be available by the end of the project in all the Partners' languages:

- ✓ STEMKIT DIY Computer design
- ✓ Electronics Kits to be used with the STEMKIT Computer
- ✓ Guide and blueprint on how to assemble the STEMKIT Computer, install the software and configure the GPIO
- ✓ STEMKIT Curriculum and lesson plans
- ✓ STEMKIT Guide for Educators
- ✓ Educational portal with integrated skill and achievement frameworks
- ✓ STEMKIT Club virtual space

## *STEMKIT GUIDE FOR EDUCATORS & SKILLS FRAMEWORK*

The STEMKIT Skills & Achievements Framework offers informal recognition to students who have successfully completed a series of quests and/or challenges of the STEMKIT Curriculum. These quests/challenges may refer to one module or to the whole curriculum and are based on the Open Badges framework. The final Skills & Achievements Framework will be integrated into the Learning Portal which will check conditions and will award the STEMKIT Badges.

## DO YOU KNOW WHAT AN OPEN BADGE IS?

An Open Badge is visual verified evidence of achievement. It has a visual part (image) and meta-data, which is encoded in the image. You can share Open Badges in digital environment.

## *NEXT STEPS*

- Dry Runs (Internal Testing) of the STEMKIT Club virtual space
- Translations of remaining STEMKIT Club virtual space content
- Improvement, corrections and multilingual content integration to the learning portal
- Piloting of the STEMKIT Club virtual space with target groups
- Multiplier events organized by project Partners

## THE PARTNERS
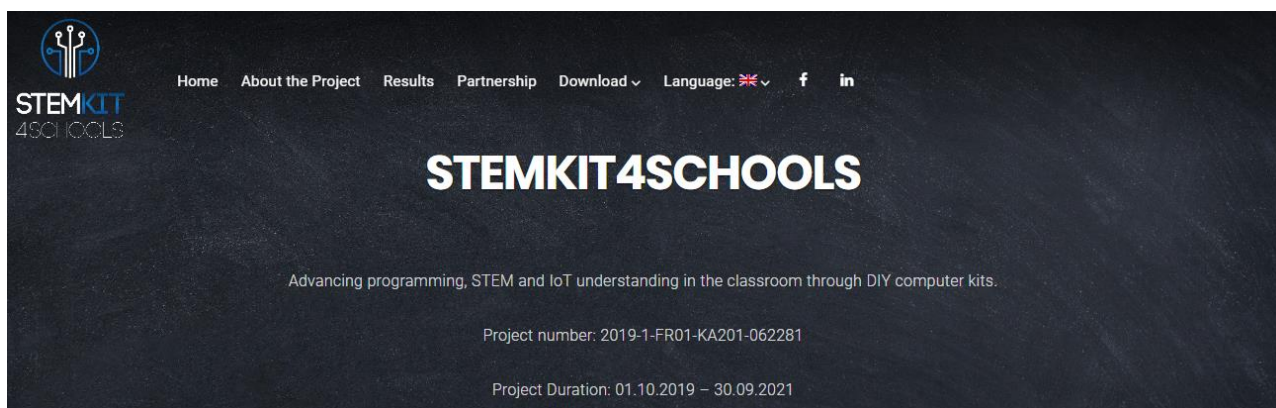
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