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PRESENTATION OF THE EUROPEAN PROGRAMME SYS-STEM

April 13th 2022 | 15:00 – 17:00 | HERAKLION



SYS-STEM: The Arduino **SYS-STEM** for Schools

SYS-STEM

The SYS-STEM Project is a thirty-month-long project funded by the European Union Erasmus+ Strategic Partnerships Programme.

WHY SYS-STEM?

The development of professional automated industrial systems nowadays is still a “proprietary technology” at high costs, which in a way impede its development and makes its implementation complicated.

OBJECTIVES:

To harness the innovative possibilities of both digital (online platforms) and electronics (Arduino technology) to make the latter accessible to the largest number of school students possible.

- To connect and promote collaboration between schools, VET and HE providers for the highest quality education and preparation of young people through knowledge and technology sharing.
- Provide educators at school level with OPEN ACCESS to the best electronics Arduino pedagogy, materials, and facilities.
- Support general education schools and technology teachers establish their own ArdLAB should they have the means to do so
- Creation of a working methodology that allows to have common criteria for designing automated systems.
- Through use of any of the SYS-STEM outputs, support educators enthuse and inspire general education school students about electronics and cause them to positively consider STEM occupations.
- Prepare young people for the growing opportunities in electronics in the future labour market.

RESULTS:

- A complete package of didactical materials in basic electronics using Arduino, including exercises and solutions, and guidelines for delivery with different age and competence level learners.
- 4 well equipped remote project partner ArdLABs which can be reserved and connected to via the SYS-STEM ArdLAB hub - an online platform which coordinates and manages reservations and the remote connections.
- An ArdLAB starter Guide for schools or centers who wish to establish their own ArdLAB, with support on how to make this a remote ArdLAB should they wish to share their facilities with other schools and register their ArdLAB with the SYS-STEM ArdLAB hub.

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- A certificate of attendance will be issued to all participants.
- **No fees are required.**

Section 1

Arduino SYS-STEM for Schools: An overview

Prof. Giorgos Papadourakis

Section 2

SYS-STEM curriculum modules: content, repository, necessary equipment, costs

Assoc. Prof. Spyros Panagiotakis

Section 3

HUB & ArdLabs Presentation

Dr. Kostas Karampidis

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