

Training Course in Educational Robotics and DIY electronics for teachers in Athens (ERASMUS+ KA1)

Face to Face (F2F) Course plan

Day 1

- Introduction and ice-breaking activities
- Pedagogy behind Educational Robotics, focus on constructivism & constructionism: Teachers work in groups to elaborate relevant topics/questions, plenary discussion follows
- Learning & teaching methodologies in educational robotics; the teachers work in groups to elaborate a lesson plan and design worksheets for students

Day 2

- Lab: Robotics for kids (ages 4-5)
- Pedagogical discussion

Day 3

- Lab: Robotics for kids (ages 6-7)
- Pedagogical discussion

Day 4

- Robotics for kids (ages 8+) (Emphasis on Lego Mindstorms)
- Pedagogical discussion

Day 5

- Robotics and DIY electronics for students (ages 13+) (emphasis on Arduino, Circuit Scribe, MakeyMakey)
- Pedagogical discussion

Day 6

- Work in groups: Re-thinking & revising the lesson plan and worksheets of the day 1
- Work in groups: the teachers write a proposal for integrating ER in the school curriculum (context specific)
- Discussion: Exploring opportunities for a new Erasmus+ proposal based on the ideas formed and making plans for future collaboration in ERASMUS+ projects
- Evaluation of the course by the participant teachers
- Cultural program (optional)

Before the F2F course

- Registration of teachers in the e-class
- Access to the online resources (available through the e-class)
- Forum: profile creation and online introductions

After F2F course

- e-class remains active as a reference tool
- Forum is up and running, communication channel is open
- We explore opportunities for further collaboration in the context of European projects