

Robotics and Augmented Reality in 21st Century School

Madeira Island, Portugal

This course contains 40 hours of guided tuition over 6 days (*). Below is the proposed Agenda for the course in [Madeira Island](#). The course is held mostly at the [Teachers Training Division of Regional Directorate of Education](#) , but participants will have the opportunity to visit other schools/institutions.

Language used for the training: English.

Target group: kindergarten teachers, pre-school teachers, primary teachers, secondary teachers, headmasters, deputy heads, future head teachers, trainers, councilors, researchers, politicians and other stakeholders.

Description: The course has been designed to provide tools to prepare European teachers for a future that happens today, where Robotics and Augmented Reality will increasingly become part of the school curriculum. The topics and training activities take into account the Key Competences for 21st Century Students. The course is designed to be very practical, demonstrative and interactive. The trainers are enthusiastic educational agents, namely teachers with broad experience and actively involved in 21st Century Skills.



February 2020

Course Objectives:

- Promote the debate about Key Competences for 21st Century Citizens;
- Experiment and develop new learning practices and teaching methods;
- Promote educational innovation and stimulate the use of Robotics and Augmented Reality in schools;
- Promoting interdisciplinary work through Robotics and Augmented Reality;
- Develop methodologies, strategies, techniques and resources for differentiated teaching;
- Create spin-off effects such as curriculum development and research collaboration;
- Improve educational practices through collaborative working approaches among teachers;
- Promote a deeper understanding of the practical ways of incorporating Robotics and Augmented in teaching;
- Improve quality and efficacy in management of international projects;
- Increase knowledge of social, linguistic and cultural issues.

Course Agenda

(We will publish updates to this agenda before the start of the course)

1st day

PM	Course Welcome. Introduction of the course content and learning outcomes. Team building Different countries, different cultures, in the same Europe
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2nd day

AM	Presentations by the participants on their schools and experience Key Competences for 21st Century Citizens The "European Schoolnet" and its projects
PM	Visits and Cultural Activities (outdoor learning context)

3rd day

AM	1 st Workshop Learning with robots: LEGO® MINDSTORMS® Education EV3.
PM	2 nd Workshop eTwinning - the most exciting learning community in Europe

4th day

AM	3 rd Workshop Learning with robots: LEGO® Education WeDo 2.0
PM	Visit to a school robotics laboratory.

5th day

AM	Visit/Session on a School
PM	4 th Workshop: Augmented Reality at School.

6th day

AM	5 th Workshop: Apps for Robotics and Augmented Reality Validation of learning outcomes. Final feedback of the course and evaluation.
PM	Certification. Follow-up and networking. Closure Session.

It is necessary to bring a laptop or tablet. We advise to bring a device as it might be handy during workshops. The trainers do not provide computers.

(*) The course has 6 days, but as it is designed by modules, we can accept participants in less/more days.

Costs

All costs can be supported with a grant under Key Action 1 of the Erasmus+ programme.

Course Fees: 420€ for a 6-day course

Admin & Organizational Fees: 150€ per participant

(Includes: pedagogical and intercultural support; training materials; validation of learning outcomes; certification; validation of Europass Mobility; admin and organizational costs; transport for school visits. Institutions will receive from Erasmus+ founding 350€ per participant for "Organizational Support" - the remaining 200€ per participant will be kept by the participant institution).

How to apply for the course?

Contact us by email: info@21knowledge.pt or by landline phone +351 232 407135

Thinking about applying for funding?

Consult: <https://ec.europa.eu/programmes/erasmus-plus>

Logistics:

The main activity of Madeira Island is tourism. The quantity, diversity and quality of tourism services in Madeira Island are recognized as being of excellence. A simple search on the Internet confirms the diversified offer. We provide support during the stay and 21knowledge has same "cultural partners".

For any information, please contact:

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Information updated in www.21knowledge.pt

