

Robotics and Augmented Reality at School

This course contains 40 hours of guided tuition over 6 days. Below is the proposed Agenda for the course in [Madeira Island](#). We will publish updates to this Agenda before the start of the course.

The course is held at the [University of Madeira](#), where participants will have the opportunity to visit and work in some of the university spaces/laboratories.

1st day, Sunday

PM	Course Welcome. Introduction of the course content and learning outcomes. Team building Different countries, different cultures, in the same Europe. Key Competences for 21st Century Citizens Informal and light dinner
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2nd day, Monday

AM	Presentations by the participants on their schools and experience (if there is) in educational robotics and augmented reality. DROIDE II – Educational robotics project at the University of Madeira (UMa). ITEC (Innovative Technologies for Engaging Classrooms) – Associate Partner UMa.
PM	1 st Workshop Introduction to building and programming Lego robots.

3rd day, Tuesday

AM	2 nd Workshop Learning with robots. Making a Movie.
PM	3 rd Workshop Learning with robots. Robot Race.

4th day, Wednesday

AM	4 th Workshop Learning with robots. A Journey to the center of the Earth.
PM	Visit to local school Robotics at School Francisco Franco - visit to the Robotics Club.

5th day, Thursday

AM	Learning with Augmented Reality Visit to the Exhibition " Learning with Augmented Reality "
PM	5 th Workshop Augmented Reality at School.

6th day, Friday

AM	6 th Workshop Augmented Reality. "Auras". 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 advice to bring a device as it might be handy during workshops. The trainers don't provide computers.

Target group: Pre-school teachers, primary teachers, teachers in the STEM areas, researchers, politicians and others stakeholders.

Language used for the training: English

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 trainers are enthusiastic educational agents involved in university projects that integrate activities in schools, namely teachers with a broad experience and actively involved in 21st Century Skills.

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 stimulating the use of Robotics and Augmented Reality in schools;
- Promoting interdisciplinary through Robotics and Augmented Reality;
- Promote a deeper understanding of the practical ways of incorporating Robotics and Augmented Reality in teaching;
- Develop methodologies, strategies, techniques and resources for a differentiated teaching;
- Create spin-off effects like curriculum development and research collaboration;
- Improve educational practices through collaborative working approaches among teachers;
- Increase knowledge of social, linguistic and cultural matters.

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 as partners:

- [Hotel Windsor Group](#): provides accommodation at special prices according to availability.
- [Lido Tours](#): organizes additional cultural activities (Funchal Sightseeing, Levada Walks, Boat Tours, One Day Cruise to Porto Santo Island, Jeep Safari, etc.)

For any information, please contact:

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Information updated in www.21knowledge.pt

