

# Robotics and Augmented Reality in 21<sup>st</sup> Century School

Madeira Island, Portugal

This is a 6 day course (\*). Below is the proposed Agenda for the course in [Madeira Island](#).

**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 21<sup>st</sup> 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 21<sup>st</sup> Century Skills.



February 2020

## Course Objectives:

- Promote debate on Key Competences for 21<sup>st</sup> 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;
- Promote 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)

### 1<sup>st</sup> day

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

### 2<sup>nd</sup> day

Presentations by the participants on their schools and experience  
Key Competences for 21<sup>st</sup> Century Citizens  
The "European Schoolnet" and its projects  
Visits and Cultural Activities

### 3<sup>rd</sup> day

1<sup>st</sup> Workshop: Learning with robots: Part 1

### 4<sup>th</sup> day

2<sup>nd</sup> Workshop: eTwinning - the most exciting learning community in Europe  
Visit to a school robotics laboratory.

### 5<sup>th</sup> day

3<sup>rd</sup> Workshop: Learning with robots: Part 2  
4<sup>th</sup> Workshop: Augmented Reality at School.

### 6<sup>th</sup> day

5<sup>th</sup> Workshop: Apps for Robotics and Augmented Reality  
Validation of learning outcomes.  
Final feedback of the course and evaluation.  
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.

### Course Venue: Funchal City Center

Calçada de Santa Clara, nº 32, 9000-036 Funchal - Madeira, Portugal  
([DTIM](#) - Regional Association for the Development of Technologies in Madeira)

**Course Fees:** 480€ for a 6-day course

### Cultural Activities:

The artistic and cultural richness of the city of Funchal is recognized worldwide. The course includes a cultural visit in Funchal City Center with a tasting of Madeira wines, from one of the most renowned wineries.

### How to apply for the course?

Registration at <http://www.21knowledge.pt> (<http://www.21knowledge.pt/registration-form.html>)

Contact us by email: [info@21knowledge.pt](mailto:info@21knowledge.pt), landline phone +351 232 40713 or mobile +351 924406405.

### 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. We provide support during the stay and 21knowledge has same "cultural partners".

For any information, please contact:

[info@21knowledge.pt](mailto:info@21knowledge.pt) / +351 962445476

