



EagleIntuition

Centro de Formação

Course: 3D Printing and Robotics in Education

Organization E10026783

Target Participants:

Teachers (Pre-school, primary, secondary, vocational, adult, special needs), Teacher trainers, Careers officers, educational guides and counselors, Inspectors, Head teachers/principals/managers of schools/organizations offering adult education, Other (Paid or voluntary) management staff in the institution/organization, Members of students/teachers councils in adult education, Other, namely: Local municipal education officers, Members of students/teachers councils in adult education

Training Venue:

FCT FABLAB

Ed. IV | Faculdade de Ciências e Tecnologia | Universidade Nova de Lisboa |

Campus de Caparica

2829-516 Caparica - PORTUGAL

[Click here](#)

Accommodation and Meals: Accommodation and meals are not included in this course, just are some refreshments during the course.

Participants must find and book their own accommodation.

Course leader: Rui Baltazar

Website: <https://europe.ei.edu.pt>

e-mail: europe@ei.edu.pt

phone: +351 91 944 944 5



Preparation

There is no special preparation for this course.

Objectives

- Understand the principles of 3D printing technology and its applications in education;
- Familiarize themselves with various 3D printing software and hardware;
- Develop hands-on experience in operating 3D printers and preparing 3D models for printing;
- Gain a basic understanding of robotics concepts, including mechanics, electronics, and programming;
- Learn how to assemble and program simple robots using various robotics kits;
- Explore different types of robots and their applications in education;
- Develop computational thinking skills and problem-solving abilities through robotics programming;
- Explore innovative pedagogical approaches to incorporating 3D printing and robotics into the classroom;
- Learn how to design and implement engaging cross-curricular projects using these technologies;
- Develop strategies to assess student learning and promote creativity, collaboration, and critical thinking through 3D printing and robotics activities;
- Cross-cultural Collaboration and Sharing of Experiences;
- Promote a global perspective on the application of 3D printing and robotics in education;
- Facilitate the development of collaborative projects that utilize the expertise of teachers from diverse backgrounds;
- Design and create engaging 3D models and robotic projects that align with educational objectives;
- Integrate 3D printing and robotics into various subject areas, including STEM, arts, and humanities.



Methodology

- Active, Collaborative, and Participative Approach;
- Conceptual and Theoretical Framing of Concepts and Combinations;
- Sharing and Development of Products;
- Critical analysis and reflection relating theoretical and practical dimensions, with objects produced;
- Evaluation (with forms filled by trainees and trainers);
- Dissemination and Follow-up Strategies.

Follow-up

Allow participants to share their experience and develop the project (and other projects) by web networking.

Actions:

- Creation social media groups;
- Upload of the pedagogical objects and critical approaches in a LMS;
- Upload of pedagogical object developed by trainees in their own professional contexts using the Pedagogical Kit;
- European Projects Development among participants.

Certification

- A certificate of attendance is presented to participants at the end of the course.
- Europass Mobility

COURSE FEE AND FUNDING

Course fee: 400€ for a 5 days course.

Participants should pay the course fee 4 months before the course starts.

Cancellation by the participant, between 6 and 3 weeks before the course, results in a cancellation fee of 60%.

Cancellation by the participant, later 3 weeks before the course, results in a cancellation fee of 80%.

If the organizers cancel the course, they reimburse the already paid amount to the beneficiary.

If the organizers cancel the course, they reimburse the already paid amount to the beneficiary.



EagleIntuition

Centro de Formação

Funding

You can request an Erasmus+ grant from your National Agency which will cover almost all costs of this course. <https://erasmus-plus.ec.europa.eu/contacts/national-agencies>

We can guide you through the process of funding and application. To do so, you need to make a pre-registration. After pre-registration, we'll contact you by mail and provide the application help.



View of Almada, on the left side of the Tagus river, and Lisbon in the right side

EAGLE INTUITION – Centro de Formação

Rua Piteira Santos, 30B

2975-333 Quinta do Conde

PORTUGAL

Phone +351 91 944 944 5

Email: europe@ei.edu.pt

Web site of the course: www.europe.ei.edu.pt