

**TRAINING COURSE**

# ETHICS IN ARTIFICIAL INTELLIGENCE



Digital School

Eethnics



Funded by the  
Erasmus+ Programme  
of the European Union



inerciadigital

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Thank you for registering for our training courses!  
Here you will find detailed information regarding the training course

# 1. Training Course Information

*"Artificial intelligence is not just a technological issue, but also an ethical one. This course explores the principles, risks and regulatory frameworks necessary for the responsible, transparent and inclusive development and use of AI."*

**Training Course:** Ethics in Artificial Intelligence

**Course Code:** IA20263

**Programme:** Digital School (Erasmus+).

**Venue:** Centro de Formación e Innovación de Inercia Digital.

**Address:** Plaza Tallista Miguel Hierro Número 9, A, 21007, Huelva, Spain.

**Duration:** 5 days courses (35 hours). According to the Flipped Classroom methodology, it will take 20 presential hours (during the morning, from 9:00 to 13:00), and 15 hours of self-learning out of this time slot.

**Training fee covered:** 100%

**Special instructions:** 100% presence is required.

**Preliminary requirements:** An A1 level (newcomer) in all of the DigCompEdu Framework competences (Certification not needed).

**Additional resources available:** computers, Internet connection, digital projector, speakers, headphones, tutors, online platform with supporting materials, papers, pens.

**Proficiency profile:** B1 – Integrator / B2 – Expert

**Methods and schedule for evaluation:** This training course will follow a Non-Formal methodology in every domain, in order to promote the interaction between learners and trainers as well as between students themselves. Different methods will be developed within the in-person sessions, giving special attention to the Case method, methodology based on project, learning by doing and the Interrogative one. The basic methodology of the course is the flipped one. It means that students will work on the Inercia Digital's online platform. It will be useful to download the learning and supporting materials, to participate in debate forums, to ask doubts, to interact with other students, to complete the required tasks for evaluation, and to do the final self-assessment of their achievement theoretical questionnaires. The learners will have access to the online platform at any moment, and they must spend almost 10 hours of dedication. All this provision is completed with in-person classes, in which different activities are carried out to definitively integrate conceptual, procedural and attitudinal course content. This method is based on some curriculum conditions, referring to both the methodology and the content of the courses, according to the DigCompOrg framework.

- Staff and learners are both creators of contents, as the courses are adapted depending on the specific learning objectives, context, pedagogical approach, and learner group. used Curricula are redesigned or reinterpreted to reflect the pedagogical possibilities afforded by digital technologies
- Content repositories are widely and effectively used. Intellectual property and copyright are respected. Digital tools and contents are licensed as required, although Open Educational Resources are promoted.

**Evaluation:** in order to guarantee the quality of our courses, evaluation is perceived as an extended process. This will mean the continuous evaluation of the learners in several aspects, which are discussed below:

- **Initial assessment:** before the start of the course, participants will be evaluated on their willingness to participate, as well as on certain aspects related to the course organization.

- **Theoretical:** The wide theoretical knowledge will be evaluated at the end of the course with a questionnaire that will be done on the online platform. The theoretical evaluation is the 40% of the final mark and it is compulsory in order to pass the course. Students' digital competence is developed across the curriculum, and that's why this evaluation will be used to define the proficiency profile of each participant, according to the DigCompEdu (Digital Competence Framework for Educators) system, proposed by the European Commission.
- **Practice:** This training course is based on the Continuous Assessment. Therefore, the students will participate in the debates and sessions planned. The participation and realization of the sessions' tasks will be 60% of the final mark and it is compulsory in order to pass the course. In order to evaluate learners' participation and dedication, all the daily activities will be saved on the online platform. The tutor will write every evaluation of the sessions on the online platform to establish a continuous feedback system.
- **Final assessment:** participants will be evaluated on their participation and own considerations and proposal.

### Type of Certification of Attendance Awarded

- Certificate of attendance including description of training content and time input
- Europass mobility certificates – to be issued by the applicant's NA

**General objective:** to analyse the ethical principles relating to the development and use of Artificial Intelligence, promoting a responsible, inclusive and transparent approach to its application in various professional contexts.

### Specific objectives:

- To understand the fundamental concepts of Artificial Intelligence and its impact on society.
- To analyse the main ethical approaches applied to technology and AI.
- To identify ethical risks associated with the use of AI, including bias, opacity and misuse of data.
- To familiarise oneself with the main international ethical and regulatory frameworks (such as those of UNESCO or the European Commission).
- To assess ethical implications in AI systems within specific professional contexts.
- To apply principles of responsibility, fairness and transparency in the design or use of AI-based solutions.
- To encourage critical thinking regarding automated decisions and algorithmic systems.

- To promote best practice in the use of data and smart technologies within organisations.

### Learning outcomes:

- Explain the basic concepts of AI and its ethical impact across different sectors.
- Distinguish between different ethical approaches and apply them to AI-related cases.
- Identify biases in datasets or algorithmic systems and analyse their social consequences.
- Evaluate an AI system using criteria such as transparency, fairness and accountability.
- Apply ethical and regulatory frameworks (e.g. the General Data Protection Regulation) to real or simulated situations.
- Critically evaluate automated decisions, weighing up risks and benefits.
- Propose mitigation measures for ethical risks identified in AI projects.
- Design recommendations or best practices for the responsible use of AI in professional settings.
- Integrate ethical considerations into the lifecycle of an AI system (design, development, implementation and use).

### Competences acquired by our learners:

*Competences were designed and distributed according to what the European Commission establishes in the European Framework for the Digital Competence of Educators. This training course is designed under the influence of all the competencies defined in the framework, and they are taken into account in a transversal sense.*

- To use digital technologies to engage in collaboration with other educators and professionals, sharing and exchanging knowledge and experience, and collaboratively innovating pedagogic practices.
- To organize digital content and make it available to learners, parents and their educators.
- To appropriately manage and orchestrate digital teaching strategies, planning for and implementing digital resources in the teaching process, so as to enhance the effectiveness of teaching interventions.
- To use digital technologies and services to enhance the interaction with learners, individually and collectively, within and outside the learning session, as well as to enhance learner collaboration, enabling learners to use digital technologies as part of collaborative assignments, as a means of enhancing communication, collaboration and collaborative knowledge creation.
- To use digital technologies to offer timely and targeted guidance and assistance, experimenting with and developing new forms and formats for offering guidance and support.

## 2. Training Course Programme

### DAY 1. INTRODUCTION TO ARTIFICIAL INTELLIGENCE (MONDAY)

**09:00 - 09:15** Welcome. Greetings and introductions.

**09:15 - 09:30** Presentation of the Training Course and Training Programme.

**09:30 - 10:00** Presentation of the Moodle Platform.

**10:00 - 10:15** Break.

**10:15 - 11:45** Introduction to Artificial Intelligence: basic concepts, types of AI, current applications and general challenges.

**11:45 - 12:45** First activity: identifying AI applications and discussing their main opportunities and risks.

**12:45 - 13:00** Sharing. Group conclusions.

**13:00** End of the sessions.

*Activities on the online platform: Reading the content of the topic discussed and completing the required task on the platform (4 hours).*

### DAY 2. ETHICAL FOUNDATIONS AND INTERNATIONAL FRAMEWORKS (TUESDAY)

**09:00 - 09:15** Welcome. Objectives Exhibition Session.

**09:15 - 10:45** Foundations of Ethics: general concepts, main ethical theories, ethics in technology and ethical principles applied to AI.

**10:45 - 11:15** Break.

**11:15 - 12:45** Ethical principles and international frameworks: UNESCO principles, European Commission guidelines and comparison of ethical frameworks.

**12:45 - 13:00** Sharing. Group conclusions.

**13:00** End of the sessions.

*Activities on the online platform: Reading the content of the topic discussed and completing the required task on the platform (4 hours).*

### DAY 3. LOCAL GOOD PRACTICES: VISITS DAY (WEDNESDAY)

**09:00 - 13:00** Participants will visit local strategic partners related to ethical AI, responsible innovation, data protection, transparency, human-centred technology and social impact.

*Activities on the online platform: Reading the content of the topic discussed and completing the required task on the platform (4 hours).*

### DAY 4. LEGAL ASPECTS, GOVERNANCE AND ETHICAL RISKS (THURSDAY)

**09:00 - 09:30** Review of topics covered the previous day. Exhibition Session Objectives.

**09:30 - 10:45** Legal aspects and governance: privacy, data protection, GDPR, legal responsibility and emerging AI regulation.

**10:45 - 11:15** Break.

**11:15 - 12:45** Ethical risks in AI: algorithmic bias, discrimination, transparency, black-box models, disinformation, malicious use and technical and social risks.

**12:45 - 13:00** Sharing. Group conclusions.

**13:00** End of the sessions.

*Activities on the online platform: Reading the content of the topic discussed and completing the required task on the platform (4 hours).*

### DAY 5. AI IN CRITICAL CONTEXTS AND RESPONSIBLE DEVELOPMENT (FRIDAY)

**09:00 - 09:30** Review of topics covered the previous day. Exhibition Session Objectives.

**09:30 - 10:45** AI in critical contexts: health, justice, security, finance, employment, education and the public sector.

**10:45 - 11:15** Break.

**11:15 - 11:30** Responsible development and future of AI: good practices, ethical impact assessment, human-centered AI and future dilemmas.

**11:30 - 12:30** Complete the assessment questionnaire course. Evaluation and conclusions of the course. Suggestions. Complete the quality evaluation questionnaires.

**12:30 - 13:00** Delivery of certificates.

*Activities on the online platform: Reading the content of the topic discussed and completing the required task on the platform (4 hours).*

# End of the course.

*All training courses and the evaluation processes coordinated and delivered by Inercia Digital are based on the UNE-EN-ISO 9001:2015, UNE-EN-ISO 14001:2015 and ISO/IEC 27001:2013 standards to achieve continuous improvement in the quality of the services provided and the activities developed by Inercia Digital, minimizing the environmental impact of our actions. Our courses in Digital and Entrepreneurial school are also based on the DigComp 2.0 conceptual reference model, Inercia Digital develops all courses under the European Reference Framework of Digitally Competent Educational Organisation (DigCompOrg), the European Framework for the Digital Competence of Educators (DigCompEdu), the EntreComp: Entrepreneurship Competence Framework, and the EntreCompEdu, Developing teachers' entrepreneurial education skills. Both are initiatives by the European Commission, Directorate-General for Education and Culture (DG EAC).*



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Programa Operativo de  
Fomento de Empleo Digital  
2014-2020



Digital School



# inerciadigital

*Boost your digital skills*



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