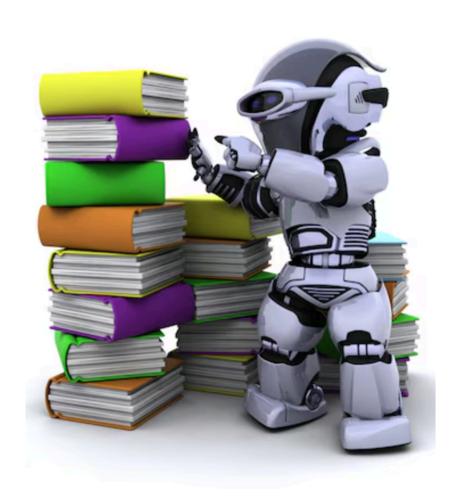# Erasmus+ Cooperation partnerships in education

"THE NEXT GENERATION OF AI POLICY MAKERS: INNOVATIVE¸ APPROACHES TO AI EDUCATION FOR DIVERSE SOCIETY" (2023-EL01-KA220-SCH-000152718)
Curriculum for 10-18 Years old Pupils

Curriculum On Teaching AI For Social Inclusion Proposes And Civic Engagement

CONTENT

1. PROJECT INTRODUCTION

ATHENA aims to develop an education package aiming at using AI for social inclusion of newcomer students into the society. Our goal is to empower students aged 10+, including refugees, migrants, and marginalized individuals, to shape the norms, values, and rules of AI. To do so, ATHENA will increase students' literacy in AI-related technical, ethical, and legal issues. In the process, ATHENA will strengthen the profiles of the teachers on how to use AI for integrating newcomer students.

Results:

-ATHENA AI Documentary.

-ATHENA Curriculum On Teaching AI For Social Inclusion Purposes And Civic Engagement.

-ATHENA Policy Recommendation Report.

2. General Information about the Curriculum

ATHENA Curriculum On Teaching AI For Social Inclusion Proposes And Civic Engagement was developed, which includes lesson topics, content, learning outcomes and foreseen workload. Additionally, lesson contents and plans were created by Athena consortium to support the curriculum. As part of WP3, a staff training session was organized in Bursa on 3-7 September 2024 to teach teachers how to use the curriculum to help refugee students adapt.

3. Overview of the Programme

The learning objectives, outcomes of the above defined modules will be further elaborated in the following sections. Overview of the programme is presented in the table below.

Table 1. Overview of the programme

No	Teaching Units	Workload		Total
		T	P	
1	AI FOR SOCIAL INCLUSION, CIVIC ENGAGEMENT, AND EQUALITY			
2	LEGAL AND ETHICAL DIMENSIONS OF AI			
3	LANGUAGE, LITERACY, AND COMMUNICATION THROUGH AI			
4	EDUCATION, HEALTH, AND WELL-BEING			
5	AI IN GEOGRAPHY, ECONOMICS, AND ENTREPRENEURSHIP			
6	AI, FAIRNESS, AND CRITICAL THINKING			
7	INTERCULTURAL EXCHANGE AND CREATIVE EXPRESSION			
	TOTAL			

3a. Curriculum

TOPICS	CONTENT	LEARNING OUTCOMES	WORKLOAD
AI For Social Inclusion Purposes And Civic Engagement: Equality	• Introduction to AI: Basic concepts of AI and machine learning. • AI for Social Good: How AI can be used to enhance social inclusion (e.g., AI in education for disabled students). • AI and Inequality: Examples of bias in AI, such as discriminatory algorithms in hiring or law enforcement. • Regulating AI: The role of governments and organizations in ensuring AI contributes to equality and fairness.	• Understand how AI can contribute to or challenge social equality and inclusion. • Analyze how AI can influence civic engagement, democratic participation, and equal access to resources. • Identify both the positive and negative consequences of AI in various social contexts (e.g., education, healthcare, public services). • Use digital tools to engage with AI-based applications that promote equality and fairness. • Correlate the role of AI in addressing issues like discrimination, inequality, and bias.	45 minutes

Understanding the Impact of Migration Through AI	**Overview of Migration and Social Inclusion:** ● Understanding migration patterns, the reasons for migration, and the specific challenges migrants face when adapting to a new country. **AI Applications for Migrants:** ● Key AI tools used to address the challenges of migration, such as language translation, job matching, legal assistance, and healthcare access. **Ethical Considerations:** ● Understanding the ethical issues surrounding AI use, including algorithmic bias, privacy concerns, and ensuring equitable access to AI	● Understand the role of AI in addressing migration issues. ● Correlate different aspects of migration with AI applications. ● Explore how AI can promote social inclusion and improve civic engagement for migrants. ● Use different digital tools and platforms to learn about migration and AI solutions.	45 minutes

		solutions for all migrants.		
	AI For Social Inclusion Purposes - Citizenship and Democracy	● Overview of AI and its functionalities ● Case studies of AI applications in civic engagement ● Discussion on social inclusion and democracy ● Tools and resources for further exploration	✔ Understand the basics of AI and its relevance to social inclusion. ✔ Correlate different social issues with AI applications. ✔ Get an introduction to different tools and platforms that support civic engagement.	90 minutes
	Evaluating the Impact of AI on Social Inclusion and Civic Engagement:Migration and AI	Overview of Migration and Social Inclusion: ● Understanding migration patterns, the reasons for migration, and the specific challenges migrants face when adapting to a new country. AI Applications for Migrants: ● Key AI tools used to address the challenges of migration, such as language translation, job matching, legal assistance, and	● Understand the role of AI in addressing migration issues. ● Correlate different aspects of migration with AI applications. ● Explore how AI can promote social inclusion and improve civic engagement for migrants. ● Use different digital tools and platforms to learn about migration and AI solutions.	45 minutes

		healthcare access. Ethical Considerations: ● Understanding the ethical issues surrounding AI use, including algorithmic bias, privacy concerns, and ensuring equitable access to AI solutions for all migrants.		

	Evaluating the Impact of AI on Social Inclusion and Civic Engagement : Contributing to Equality	• Introduction to AI: Basic concepts of AI and machine learning. • AI for Social Good: How AI can be used to enhance social inclusion (e.g., AI in education for disabled students). • AI and Inequality: Examples of bias in AI, such as discriminatory algorithms in hiring or law enforcement. • Regulating AI: The role of governments and organizations in ensuring AI contributes to equality and fairness.	• Understand how AI can contribute to or challenge social equality and inclusion. • Analyze how AI can influence civic engagement, democratic participation, and equal access to resources. • Identify both the positive and negative consequences of AI in various social contexts (e.g., education, healthcare, public services). • Use digital tools to engage with AI-based applications that promote equality and fairness. • Correlate the role of AI in addressing issues like discrimination, inequality, and bias.	45 minutes

	Evaluating the Impact of AI on Social Inclusion and Civic Engagement in Citizenship and Democracy	- Introduction to Artificial Intelligence (AI) - AI and Social Inclusion - AI and Civic Engagement - Ethical Issues with AI in Social Inclusion and Civic Engagement - Regulation and Governance of AI - Case Studies of AI in Social Inclusion and Civic Engagement	- Understand the concept of AI (Artificial Intelligence) and its role in shaping society. - Explore the intersection of AI, social inclusion, and civic engagement. - Evaluate how AI can either promote or hinder citizenship and democracy. - Use and correlate different tools to assess the social impact of AI on marginalized groups. - Engage in discussion and reflection about the ethical implications of AI on social justice and democratic participation.	45 minutes

Writing for Vulnerable Social Groups Using Artificial Intelligence	● The specific lesson aims for students to understand the importance of good communication and be able to express their experiences and feelings. Also, to be able to define the characteristics of vulnerable social groups and at the same time be able to design and choose the appropriate tools of artificial intelligence that will help them achieve the above purpose.	● Reflect on their personal experiences to improve written expression ● Choose the right tools to adapt language to fit the audience's needs ● Enhance acceptance and understanding of the culture of individuals belonging to vulnerable social groups ● Understand the importance of meaningful and effective communication in fostering relationships of trust and respect ● Practice accurate use of vocabulary and grammar for conveying messages	90 minutes

	What are Ethics In AI?	• Students will explore the concept of ethics in general, then apply it to Artificial Intelligence (AI). They will define AI ethics and examine its importance in shaping AI systems that benefit society. The lesson will use real-life examples to make the subject relatable.	• Students will understand the meaning of ethics in the context of AI. • Students will identify key ethical principles (e.g., fairness, accountability, transparency). • Students will explain why ethical considerations are essential in AI design.	45 minutes
	Ethical Challenges in AI Systems	This lesson delves into specific ethical dilemmas in AI, such as bias, privacy, and accountability. Students will learn to identify these challenges and discuss their implications using real-world scenarios.	• Students will recognize ethical challenges in AI. • Students will analyze the consequences of these challenges on society. • Students will propose solutions to mitigate ethical dilemmas.	90 minutes

	Building Ethical AI Frameworks	● In this lesson, students will collaborate to create their own AI Code of Ethics, synthesizing their understanding from previous lessons.	● Students will articulate principles for ethical AI. ● Students will demonstrate teamwork in developing a framework. ● Students will apply ethical considerations to hypothetical AI systems.	45 minutes
	Regulatory Challenges and Ethical Considerations in AI Development	• Ethical challenges in AI, including fairness, transparency, and accountability. • Regulatory issues, including privacy concerns, data protection laws, and AI-specific regulations. • Examples of regulatory bodies and their influence on AI development, such as GDPR and AI Act.	• Understand the regulatory challenges in AI development. • Identify key ethical considerations related to AI technologies. • Examine the societal impact of AI and its ethical implications. • Apply ethical frameworks to analyze AI use cases and regulatory challenges.	120 minutes

	Advanced Exploration of AI and Legal Issues	• The lesson plan covers what AI is, how it affects society, its ethical issues, and the rules and laws that govern it.	• After this lesson you are able to understand the issues of AI from a legal perspective • Use and correlate different different research skills to reason and argument in discussions and activities. • Get an introduction about different tools such as legal databases or resources for researching AI-related laws.	105 minutes
	Legal Aspects of AI Implementation	• Core principles of AI-related legal frameworks. • Challenges related to data privacy, liability, and transparency in AI. • Relevant laws and regulations such as GDPR, AI Act, and sector-specific regulations.	•Understand the core principles of legal compliance in AI applications. • Identify and analyze the legal challenges associated with AI technologies. • Utilize legal research tools to explore AI-related regulations. • Discuss the implications of AI implementation from a legal perspective.	120 minutes

	Understanding and Engaging in AI Development	• Students will be introduced to the fundamental concepts of AI and the significance of involving diverse groups of people in its development and deployment. They will participate in interactive activities to create simple AI projects and discuss the ethical aspects of AI.	• Understand basic concepts of AI. • Recognize the importance of participatory approaches in AI development. • Develop simple AI-related projects using participatory methods. • Reflect on the ethical implications of AI deployment.	90 minutes
	Using AI as Scaffolding for Vocabulary Building	• AI vocabulary tools: introduction to AI platforms that support vocabulary learning (e.g., Quizlet, Grammarly etc. – see website). • Personalised learning: vocabulary lists and exercises generated by AI based on individual student performance.	• Understand how AI can be used to build and reinforce vocabulary skills. • Use and correlate different AI-powered tools to enhance your vocabulary in a targeted and personalised manner. • Apply new vocabulary in meaningful contexts, improving both written and spoken communication.	90 minutes

	Composing Poetic Verses: Limericks and Haikus Using AI	• Students are expected to learn and understand basic concepts regarding poetry and use their creativity to compose poems (limericks and haikus) in both their native language and English using the AI tool Editpad poem-generator. • The lesson aims to motivate refugee and other minority-group students to express themselves freely by experimenting in both Greek and English without worrying about grammatical or lexical errors. Additionally, students will learn about the participatory approaches in AI, understanding how AI can assist in creative processes and the importance of their involvement in AI development.	Students will be able to compose a poem using the AI tool Editpad poem-generator, incorporating the structures of limericks and haikus accurately while understanding participatory approaches in AI.	90 minutes

	Creative Script Writing Using Chatgpt	● At the end of this lesson, students will be able to create a script featuring a protagonist with a disability, utilizing ChatGPT to explore character development and narrative structure while demonstrating empathy and inclusion. More specifically they are expected to: · develop empathy in writing: understand the importance of representing diverse experiences and perspectives, particularly those of individuals with disabilities. · to be able to develop film characters: create relatable and multi-dimensional characters that	● develop empathy in writing: understand the importance of representing diverse experiences and perspectives, particularly those of individuals with disabilities. ● to be able to develop film characters: create relatable and multi-dimensional characters that resonate with audiences. ● to become familiar with script structure: familiarity with the elements of a script, including dialogue, stage directions, and scene settings. ● use ChatGPT as a tool: learn how to interact with and utilize ChatGPT effectively to enhance creative writing. ● understand the importance of Inclusion: learn about the importance of inclusivity in storytelling, ensure diverse voices are represented authentically.	180 minutes

		resonate with audiences. · to become familiar with script structure: familiarity with the elements of a script, including dialogue, stage directions, and scene settings. · Use ChatGPT as a tool: learn how to interact with and utilize ChatGPT effectively to enhance creative writing. · Understand the importance of Inclusion: learn about the importance of inclusivity in storytelling, ensure diverse voices are represented authentically.		
	A Song About Human Rights	Students are expected to learn and understand basic concepts regarding human rights and compose the lyrics of a song about Human Rights	● After this lesson students will be able to understand the concept of Human Rights ● Use and correlate different vocabulary and key concepts related to human rights, grammatical and syntactic structures in	90 minutes

		using the AI tool Magic School Song Generator .The lesson is of particular importance as there are students in this class who belong to refugee groups.	English related to song writing ● Get an introduction to AI tool Magic School (Song Generator) for song writing and editing ● By the end of the lesson, students will be able to create a song about human rights using the AI tool Magic School (Song Generator). A music teacher will compose music for the song and students will perform their song in front of the class alongside their refugee classmates. ● Their song will be evaluated based on their incorporation of human rights concepts and vocabulary, creativity, collaboration and overall presentation. ● The lesson incorporates human-centered principles, specifically tailored for refugee students. The goal is to ensure the lesson is inclusive, empathetic, and empowering for all students, particularly those who might have experienced human rights issues firsthand.	

		The specific lesson aims for students to understand the significance and functionality of artificial intelligence systems in promoting empathy and acceptance of cultural diversity.	• Define artificial intelligence and understand its role in society. • Highlight the functionality of AI systems in promoting understanding of different cultures. • Gain experience using AI tools to create a presentation about their homeland. • Recognize the importance of empathy and acceptance in embracing cultural diversity.	90 minutes
	Languages and Religions Presentation of My Homeland			
	Food and Health	• Learning the significance of a healthy diet • Encourage teamwork and critical thinking • Development of search skills • Learn to use AI tools : Open Food Facts and ChatGPT • Participate in AI development by providing feedback and suggestions for Open Food Facts.	1.To understand the importance of a healthy diet for well-being. 2.Familiarize themselves with the use of Open Food Facts software for food control. 3. Engage in participatory approaches to AI development by contributing data and feedback.	90 minutes
	Developing a Healthy Lifestyle with AI Assistance	• Students will be able to analyze and create a personalized healthy lifestyle plan using AI tools while understanding potential biases and fairness issues	• Understand the role of artificial intelligence in developing a healthy lifestyle. • Be familiar with the most common AI-based health and lifestyle support applications	90 minutes

		in AI-generated health recommendations.	(e.g., smart devices, fitness apps, nutrition analyzers). ● Can use artificial intelligence-based digital tools (e.g., pedometer, sleep monitor, AI trainer) to monitor or improve their own lifestyle.Becomes open to the use of digital tools and AI for health preservation. ● Has a conscious attitude toward the role of technology: recognizes its advantages, but is also aware of its limitations.	
	Learning English through evaluating AI systems for Diverse Users and Communities	This specific lesson aims for students to understand the importance of considering diverse students when designing AI systems. Also, students will be able to use English vocabulary related to the principles that AI Tools must have in order to be inclusive, fair, accessible to everyone, transparent, and culturally sensitive. Students will be involved in discussions, analyze and	● Define artificial intelligence and inclusivity ● Understand the importance of designing AI systems for diverse users and communities ● Use and correlate different factors to ensure inclusivity, fairness, accessibility, transparency, and cultural sensitivity (the basic principles in AI systems design)	135 minutes

		evaluate real-world examples, create a report and an infographic poster about AI systems. The lesson includes interactive activities and group work to build effective communication skills.	• Understand and use English vocabulary related to AI and ICT tools to write a report • Use an AI tool to create an infographic poster	
	Exploring Asia: Harnessing Artificial Intelligence in Geography	• Students will create inclusive projects using Canva, chatgpt. Students who finish early can explore additional AI tools that can be used for geographic analysis and create a one-page summary of their findings.	• collaborate effectively with peers from diverse backgrounds, • create a project using Canva AI and Chat gpt.	90 minutes
	The Rational Consumer: Navigating Economic Choices	• Apply economic concepts to analyze consumer behavior and decision-making processes in real-life situations, incorporating the use of AI-powered tools and information sources. • Evaluate the role of entrepreneurs in	• Cooperating with others in solving theoretical and practical problems in different groups • Demonstration of an active and responsible social behavior appropriate to a changing world • create a human-centered project using Canva AI and	90 minutes

		leveraging AI technologies to understand and respond to consumer needs, demonstrating how innovation in social sciences can impact economic processes ● Students will create inclusive projects using Chat GPT,Canva, etc	Chat Gpt, CHAT GPT, AI tools.	
	The AI Revolution: Navigating Social and Economic Changes	● Economic Transformations Automation and the Future of Work Innovation and Productivity ● Social Impacts Changes in Daily Life Privacy and Security Risks	By the end of this lesson, students will be able to: 1. Accurately define what Artificial Intelligence (AI) is and identify common examples of its use in daily life. 2. Describe the economic impact of AI, including job automation and the creation of new career opportunities. 3. Analyze key social changes driven by AI, particularly in areas such as education, healthcare, and communication. 4. Identify ethical concerns related to AI technologies, including data privacy, algorithmic bias, and decisionmaking	45 minutes

		accountability.	
Exploring AI: Empowering Entrepreneurs and Consumers	● Analyzing market trends and customer behavior ● Automating repetitive tasks ● Personalizing marketing campaigns ● Optimizing inventory management ● Providing personalized product recommendations ● Offering virtual shopping assistants ● Enabling price comparisons across multiple platforms	● At the end of this lesson, students will be able to: explain how each application works, its benefits, and potential drawbacks. The presentation will be evaluated based on accuracy, creativity, and understanding of AI's role in business and consumer decision-making.	45 minutes
Critical Thinking in Daily Life AI in the Modern World	● Acknowledge the fundamental legal and regulatory considerations surrounding AI technologies in everyday life ● Encourage teamwork and	● Understand how to use AI in their daily life ● Familiarize themselves with the EU regulations on AI ● Analyze ethical dilemmas related to AI	135 minutes

		- critical thinking - Improvement of digital competencies - Developing a responsible attitude towards AI development and usage - Ability to identify key legal and regulatory issues in Ai - Ability to find key information in the given article		
	A 6th Grade Exploration of Bias and Fairness in AI Communication	to understand and explore these AI concepts in an interactive and accessible way	- collaborate effectively with peers from diverse backgrounds, - demonstrate empathy - create a human-centered project using Canva AI, Chatgpt, Kahoot.	90 minutes
	Building Bridges: Refugee and Greek Students Talk about Their Countries	Students will create inclusive projects using Canva, focusing on empathy, inclusion, and collaboration.	- collaborate effectively with peers from diverse backgrounds, - demonstrate empathy - create a human-centered project using Canva AI and Grammarly AI tools.	90 minutes

VLE Delivery:
INFOGRAPHICS FOR EACH TOPIC
Link to infographics:
https://drive.google.com/drive/folders/1BdNSMXKfOXrXqcYk591pyuygoR4n6-V1

CONCLUSION

The ATHENA curriculum provides a holistic framework for empowering teachers and as a result students to understand, critique, and responsibly engage with artificial intelligence in ways that promote social inclusion, civic participation, and equality. By combining technical knowledge with ethical, legal, cultural, and creative dimensions, the programme equips pupils not only with digital and soft skills but also with the values of empathy, fairness, and democratic responsibility. In other words, this was a collective endevaor of international Athena project consortium, to provide students AI related abilities with already existing concrete subjects like history, geography etc. Through interactive activities, participatory approaches, and real-life applications, students are encouraged to see themselves as active contributors to an inclusive AI-driven future—capable of shaping technologies that respect diversity and strengthen cohesion within society.