

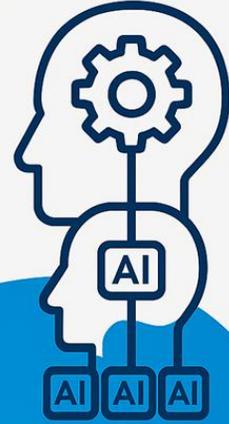


الجمهورية الجزائرية الديمقراطية الشعبية  
Algerian Democratic Republic and Populaire  
وزارة التعليم العالي والبحث العلمي  
Ministry of Higher Education and Scientific Research



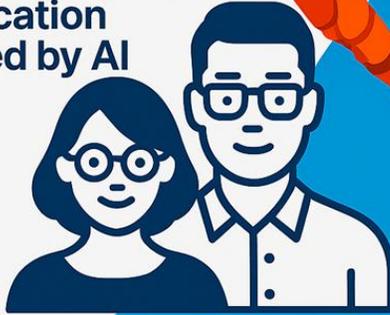
اللجنة الوطنية للإشراف ومتابعة تنفيذ برنامج تدعيم التكوين الأولي  
في الطور الثالث في مؤسسات التعليم العالي- 2025-

# Initial Training of Doctoral Students AI Techniques and Tools Subject



AXIS II: Learning and  
Communication  
Augmented by AI

# AI



AI Tools at the  
Service of the  
Researcher

# Workshop – Academic Writing Assisted by AI

## 1- 🕒 Duration

1h30

## 2- 🛠️ Tools Used

- ChatGPT
- Grammarly or LanguageTool
- DeepL (optional)

## 3- 🎯 Learning Objectives

By the end of this workshop, PhD students will be able to:

- Understand and apply a workflow for academic writing assisted by AI tools.
- Structure a scientific paragraph starting from an initial idea.
- Improve clarity, style, and linguistic correctness using AI-powered tools.
- Develop a critical perspective on the uses and limitations of these tools.

## 4- 📦 Required Equipment

- Computer with internet access
- Accounts created on ChatGPT, Grammarly/LanguageTool, and DeepL
- Grammarly browser extension installed (if used)

## 5- 🌀 Workshop Flow

### Step 1 – DRAFT: Writing the First Draft

**Objective:** Express a research idea as a raw paragraph.

- **Duration:** 30 min
- **Activity:** Each participant writes an introductory paragraph related to their thesis topic, without focusing on form or correctness.
- **Tip:** Focus on the core idea, not on grammar or style.

### Step 2 – REPHRASE & STRUCTURE: Clarification and Structuring

**Objective:** Refine the paragraph to convey a clear academic tone.

- **Tool:** ChatGPT
- **Suggested prompts:**

- “Can you rephrase this paragraph in a clear and structured academic style?”
- “Transform this paragraph into scientific language appropriate for a PhD level.”
- **Duration:** 15–25 min
- **Activity:** Paste the draft into ChatGPT, analyze the reformulated version, and revise as needed.

### Step 3 – CORRECT: Grammar and Style Editing

**Objective:** Correct grammar, punctuation, and improve the overall writing style.

- **Tools:** Grammarly or LanguageTool
- **Duration:** 20 min
- **Activity:** Paste the reformulated text into the tool of choice and apply relevant suggestions.

### Step 4 (Optional) – TRANSLATE: Translation or Language Comparison

**Objective:** Translate or compare the English version of the paragraph.

- **Tool:** DeepL
- **Duration:** 15 min
- **Tip:** Ensure the meaning and academic tone are preserved in translation.

## 6- **Practical Example** (*Topic: Ethics of AI*)

### Initial Draft (DRAFT):

Artificial intelligence is becoming more and more present in our daily lives. AI is used in healthcare, transportation, education, and even public administration. But its rapid development raises ethical issues. Some decisions made by AI systems are incomprehensible or unfair. Therefore, it is important to think about ethical rules to prevent potential abuses.

### Prompt used:

Rephrase this paragraph in a clear and structured academic style.

### Rephrased Version (ChatGPT):

Artificial intelligence (AI) is increasingly embedded in our daily lives, with growing applications in sectors such as healthcare, transportation, education, and public administration. However, the rapid pace of its development raises significant ethical concerns. Some decisions made by AI systems may appear opaque or unjust. It is therefore essential to consider the development of ethical principles to guide the use of these technologies and prevent potential misuse.

### Added solution (ChatGPT):

To address these challenges, it is particularly important to promote transparent algorithms, clearly defined accountability mechanisms, and enhanced human oversight.

### **Translation (DeepL):**

Artificial intelligence (AI) is increasingly embedded in our daily lives...

#### **7- 🤝 Group Activity**

- Compare versions produced by different participants
- Identify common types of improvements
- Discuss benefits and limitations of the tools used

#### **8- 🔗 Useful Resources**

- [ChatGPT](#)
- [LanguageTool](#)
- [Grammarly](#)
- [DeepL](#)