

NEWSLETTER – II

EMPOWERING WOMEN THROUGH KNOWLEDGE AND SKILLS ON CODING FOR EMPLOYMENT OPPORTUNITIES IN INFORMATION TECHNOLOGY SECTOR

INTERACTIVE CODING MODULES BUILDING DIGITAL SKILLS FOR WOMEN

The ENCODE-IT project has launched six interactive and multilingual coding modules designed for low-skilled women. Each module introduces the basics of coding and AI through simple explanations, step-by-step activities, and practical tasks.

The modules include short exercises, quizzes, and real-life examples, and are available in TR, PT, and FR to ensure accessibility for all participants. These tools will also prepare women for the upcoming Virtual Bootcamp and the International Hackathon.



THE INTERACTIVE CODING MODULES A NEW LEARNING PATHWAY

The ENCODE-IT interactive modules go beyond basic coding by showing participants how AI can simplify and accelerate the creation process. Women learn to approach problems with Design Thinking, use AI tools like ChatGPT and GitHub, Copilot to generate ideas, and choose the right tool for each task.

The modules also introduce algorithmic logic, effective prompt writing, and simple workflow automation. By the end of the training, participants build small AI-assisted projects, helping them see technology as an accessible, creative, and empowering tool.



Opening Doors to Women in Tech



Empowering Women
through Coding

ENCODE-IT aims to empower 60 low-skilled women in Portugal, Türkiye, and Belgium by providing them with basic coding and digital literacy skills. The project includes three key activities: Interactive Coding Modules, a 4-month virtual bootcamp, an international hackathon in Belgium, and a learning community that promotes ongoing knowledge sharing.

Together, these activities support women's participation in digital transformation and create new pathways to employment.

The Learning Journey: From AI Basics to Product Creation Empowering Women to Build with Confidence

The ENCODE-IT interactive modules offer a clear and accessible pathway for women to explore coding and AI-supported creation. Beginning with the module “Why Code with AI?”, participants discover how modern tools remove traditional coding barriers and make technology accessible for everyone.

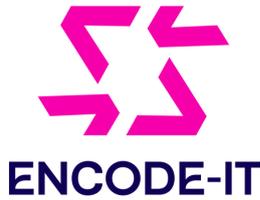
They learn how AI democratizes creation, reduces inequalities, and transforms coding into a fast and achievable skill. Building on this foundation, the “Design Thinking with AI” module guides women to approach problem-solving creatively, using AI as a design partner to generate ideas, visualise wireframes, and plan user-friendly solutions.

As the learning journey continues, the “AI Coding Tools and Usage” module introduces practical platforms such as ChatGPT, GitHub Copilot, Replit Ghostwriter, and Claude Coder, helping participants understand which tools are best for different tasks. This experience is strengthened through the “Algorithm Logic and Prompt Engineering” module, where women learn how to think step-by-step like a machine, break down problems, and write

effective prompts that produce cleaner and more accurate code outputs. The following modules explore real-world application. Through “Workflow, Automation, and Agent Logic”, participants discover how AI can automate daily tasks, build simple workflows, and even manage entire processes independently.

Finally, the “Product Development with AI” module brings everything together, allowing women to create a small but functional digital product such as a simple app or automation by requesting code from AI, testing prototypes, and refining their work.

Together, these modules provide women with both theoretical understanding and tangible digital skills. They learn how to approach technology with confidence, how to transform ideas into working solutions, and how to use AI as a supportive partner in creation. This foundation prepares them for the upcoming Virtual Bootcamp and the International Hackathon, where their newly developed skills will evolve into real projects, teamwork experiences, and innovative digital solutions.



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Empowering Women through Knowledge and Skills on Coding for Employment Opportunities in Information Technology Sector

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