

# COGNITIVE SKILLS THROUGH GAME-BASED LEARNING

**Course Duration:** one week, from Monday to Saturday, 30 hours

**Number of Participants:** Min. 6 – Max. 20

**Course location:** BRAGA and Porto (Portugal)

**Teacher:** Alberto Pereira

## COURSE DESCRIPTION

Discover the fascinating world of cognitive skills enhancement through the innovative approach of game-based learning. The "Cognitive Skills through Game-Based Learning" course is a captivating and interactive experience that empowers participants to develop and refine essential cognitive abilities while engaging in a variety of stimulating games.

Over the span of six dynamic mornings, participants will embark on an engaging journey of self-improvement. From sharpening critical thinking and problem-solving skills to fostering creativity, teamwork, and emotional intelligence, this course provides a comprehensive exploration of cognitive growth within the context of games.

Each session is carefully designed to integrate theory with practical application, enabling participants to experience firsthand how cognitive skills can be honed through immersive gameplay. Whether unraveling complex puzzles or collaborating in multiplayer scenarios, every activity contributes to a holistic understanding of the mind's potential.

Join us in this transformative learning adventure, where the world of games becomes a powerful platform for cognitive development, social interaction, and personal growth. By the end of the course, participants will have acquired valuable cognitive skills that can be applied across various aspects of life.

## LEARNING OUTCOMES

**By the end of the course, participants will:**

- **Enhanced Critical Thinking:** Develop the ability to analyze situations, evaluate options, and make informed decisions by engaging in strategic gameplay.
- **Effective Problem-Solving:** Apply creative and logical thinking to tackle intricate problems, both in-game and real-world scenarios.
- **Unleashed Creativity:** Cultivate innovative thinking and imaginative solutions through experiential learning in diverse game environments.
- **Refined Social Intelligence:** Strengthen teamwork, communication, and collaboration skills through cooperative gameplay and interactive challenges.
- **Empowered Emotional Intelligence:** Recognize and manage emotions, understand others' feelings, and enhance empathy through emotionally engaging games.
- **Mathematical Proficiency:** Improve mathematical skills and logical reasoning by exploring numbers, patterns, and calculations in game contexts.
- **Reflective Learning:** Reflect on personal growth and cognitive advancements achieved during the course, fostering self-awareness and metacognition.

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## PROGRAM

### Day 1 - Monday Braga

Introduction to Cognitive Skills and Game-Based Learning

- Registration and Welcome
- Exploring the Foundations of Cognitive Skills
- Unleashing Potential through Game-Based Learning

### Day 2 - Tuesday Braga

Elevating Critical Thinking and Problem-Solving

- Mastering Critical Thinking with Interactive Challenges
- Cracking Complex Problems Using Game Strategies
- Real-world Applications of Enhanced Problem-Solving

### Day 3 - Wednesday Braga

Nurturing Creativity and Imagination

- Stimulating Creativity: Games as Catalysts
- Imagination Unleashed: Innovative Solutions in Gaming
- Bridging Creativity into Practical Situations

### Day 4 - Thursday Braga

Cultivating Social and Emotional Intelligence through Games

- Cooperative Gameplay for Strengthening Social Bonds
- Emotional Mastery: Connecting in Multiplayer Games
- Empathy and Effective Communication through Gaming

### Day 5 - Friday Porto

- Discovery - STEAM outdoor game: Explore the vibrant city of Porto through a series of activities and challenges that encourage teamwork, problem solving and creativity.

### Day 6 - Saturday Porto

- Cruise of the 7 bridges by Rabelo Boat on the Douro River, with observation of the architecture of the Ribeira do Porto.
- Port wine tasting. The importance of oenology in Portuguese culture.

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**Note:** The course programme may undergo minor changes based on logistical considerations and resource availability.