

GAMIFICATION & GAME-BASED LEARNING

Teacher: João Garrido

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

Number of Participants: Min. 6 – Max. 20



DESCRIPTION

What is gamification? Gamification is the use of techniques, strategies and game design in other contexts that are not necessarily games. It's all about bringing the game to reality and thereby impact areas such as engagement, productivity, focus, determination, among others, and make it simpler to achieve goals and objectives at any context. Through gamification, it is possible to transform work or study routines and make people feel more inclined to dedicate themselves to the tasks and challenges that each situation requires.

Why is gamification so effective? According to experts, the gaming experience goes far beyond the entertainment factor and goes through other essential points, such as the need for competition (which is inherent to every human being), instant feedback, the possibility of rapid evolution, and the search for tangible rewards. The creation of communities and the sense of urgency that work on in games is also something that encourages you to continue on that task and makes it possible for the goals to be achieved.

How to implement gamification in teaching and learning? If you're thinking that implementing a gamification system in your classroom is expensive, complicated or requires a lot of resources, you're strongly mistaken. With some simple measures, you can apply certain notions of gamification to your content and encourage students to have greater engagement, motivation and to be able to evolve quickly and successfully. Some of the techniques go through:

- Creating a scoring and evolution system;
- Offering rewards;
- Stimulating competition;
- Offering fast and constant feedback.

In the context of teaching, where technology has always been present in different ways, it is even easier to make gamification functional and become a differential. Especially in cases where the Internet is used to transmit content, making different materials fit into a gamification logic is even simpler and more effective and can impact one of the most decisive issues, which is educational success.

The course will be very practical, combining theory with practice, group work and discussion with hands-on phases in which the participants will have the opportunity to explore the provided apps.

As a participant, you will interact with some of the most important apps for creating games and understand the usefulness and applicability of gamification in different indoor and outdoor situations of communication and learning.

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LEARNING OUTCOMES

Participants to the course will learn to:

- Understand the logics behind different types of games;
- Understand the concepts and methodology behind game design (phases of analysis, design, development and prototyping, implementation testing and evaluating);
- Create a game from scratch for educational purposes;
- Use gamification as a way to develop social and cultural values in the classroom and in the school, therefore impacting future society;
- Integrate games on instructional design to enhance learning and apply them into the Design of a Curricular Unit.

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Monday

Introduction

- Introduction of the course and the external activities.
- Icebreaking activity to introduce the trainer and the participants.
- Pedagogical Design of Learning Using apps or software tools:
- Contextualization – Learning Theories;
- “Instructional Design” methodologies and the Design of Constructivist Learning Environments.
- Introduction to the concept of Gamification.

Tuesday

Game design methodology

- What makes a Game fun (obstacles, rewards, tasks, pride, happiness);
- The Design Methodology;
- User-centered Design (know your audience; importance of evaluation testing);
- The Building Blocks of Great Missions for Gamification;
- Motivational Drivers and Gamification;
- Game Mechanics – Reasons to Play;
- Points, Badges and Leaderboards in Gamification;
- Relationships and Gamification;
- The Use of Story and Emotions in Gamification.

Wednesday

Introduction to games creation using Scratch

- What is visual coding?
- Introducing Scratch interface;
- Creating Sprites;
- Using code blocks;
- Types of Scratch games;
- How to make a game on Scratch:
 - Add a Backdrop;
 - Add a Sprite;
 - Make the Sprite Move;
 - Add Difficulty;
 - Add Sound;
 - Increase the Score.

PROGRAM

Thursday

Using apps and digital tools for gamification

- Gamification digital tools:
- Educational tabletop or board games online;
- Quiz games;
- Storytelling;
- Scavenger hunting.
- Evaluate learning through the use of gamification.

Friday

Practical Application Work

- Pedagogical design of a curricular unit using gamification to implement student-centered learning activities.

Saturday

Practical Application Work

- Course evaluation and awarding of the course Certificate of Attendance.
- 21st Century Skills – The Values of Art and Culture – Excursion Tour and external cultural activities

