

Introduction to the Gamification Course

COURSE OVERVIEW



Introduction to the Gamification Course

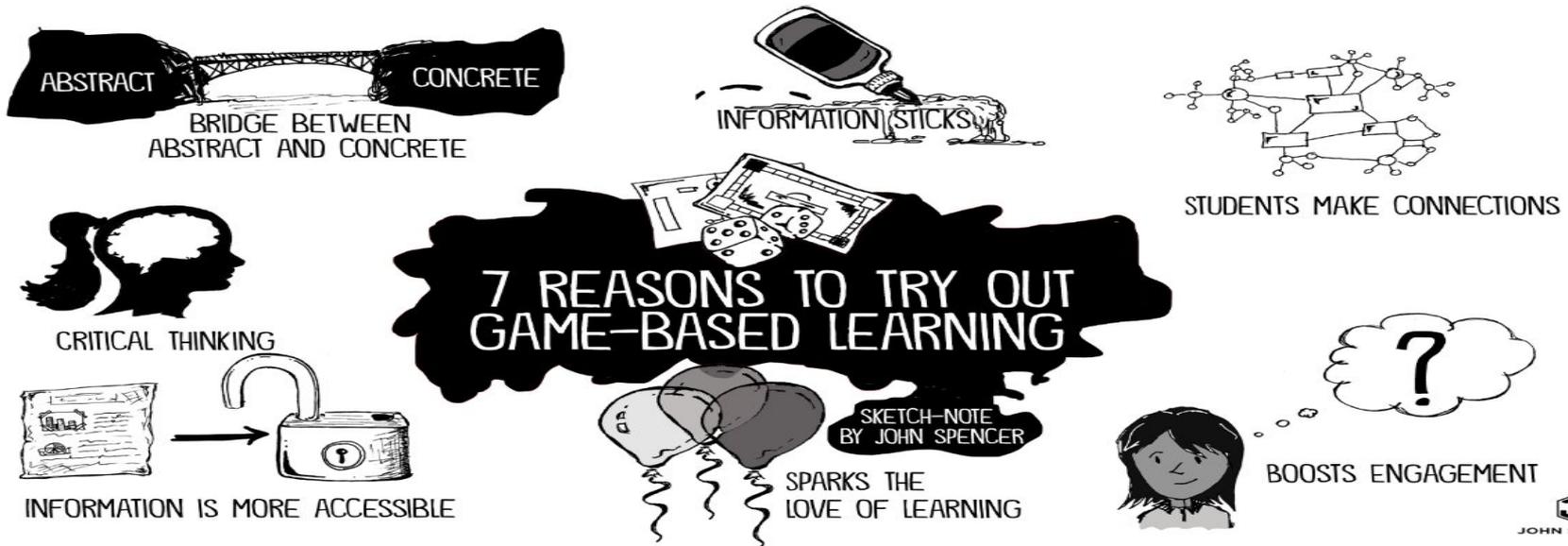
- ✓ This course is about implementing Game-Based Learning / Gamification in ways that generate sustained learner engagement and produce measurable educational benefits.
- ✓ The course is aimed at educators serving both primary and secondary school level (including special needs education).
- ✓ The purpose of the course is to introduce you to the concepts of Games-Based Learning / Gamification ensuring responsible and successful implementation of digital educational games both in different countries and across school subjects.
- ✓ The course is mainly streamlined to the conduct of gamified activities in Virtual Reality Environments (3D Virtual Worlds) but no particular technical skills or game-playing experience are required.

COURSE DESCRIPTION



Highlights

- ✓ Game-Based Learning is considered to be one of the most prevalent approaches that can boost learners' motivation and increase engagement.
- ✓ Gamification is defined as the application of digital game design techniques in non-game contexts (such as business, education).



COURSE DESCRIPTION



Intended Learning Outcomes

Upon successful completion of this course, you will be able to...

- ✓ ...understand the advantages and disadvantages of Game-Based Learning and Gamification in education.
- ✓ ...identify and assess the potential of the available Serious Games in view of their students' educational preferences and needs.
- ✓ ...establish new educational practices by integrating Games-Based Learning features and Gamification strategies.
- ✓ ...integrate ICT tools (such as 3D Virtual Worlds) and custom-made learning interventions in their classroom activities.

LEARNING OBJECTIVES



Intended Learning Outcomes

In terms of knowledge...

- ✓ ...understand the theoretical and conceptual principles of Games-Based Learning.
- ✓ ...identify the differences between the (serious) games genres.
- ✓ ...describe the structural elements of educational games.
- ✓ ...understand the potential and the risks that the games may bring in education.

In terms of skills...

- ✓ ...conduct independent research related to educational games.
- ✓ ...design sample units of lesson plans based on gamification.
- ✓ ...develop gamified educational activities in 3D educational Virtual Worlds.

LEARNING OBJECTIVES



Intended Learning Outcomes

In terms of competencies...

- ✓ ...determine the roles that students can undertake in digital games
- ✓ ...determine the actions that students can perform in digital games
- ✓ ...recognise the fundamental Learning Mechanics used for the design of educational games
- ✓ ...recognise the fundamental Game Mechanics used for the design of educational games
- ✓ ...integrate gamified activities in class to increase students' motivation and make classes more effective.

COURSE STRUCTURE



Key Information

- ✓ The best way to learn gamification is to do gamification!
- ✓ For this reason, the whole course has been converted into a game!
- ✓ This is a 'flipped' course divided into 8 units which are denoted as 'Questlines'.
- ✓ Each questline involves different 'tasks' which are denoted as 'Quests'.
- ✓ Successful completion of each questline awards an 'Achievement'.
- ✓ At the same time, your 'Level' increases by 1.
- ✓ Finally, some questlines include 'Challenges' that can help you comprehend your understanding of the material.
- ✓ Below we provide an overview of the course structure (questlines).

COURSE STRUCTURE



Overview of the Gamification course questlines

Lv.	Questline	Achievement
0	Introduction to the Gamification Course	A Present for Teacher
1	Gamified Education	Spectral Teacher
2	Classification of (Serious) Games	Hunger For Games
3	Classification of Player Types	Know Your Role
4	Classification of Student Actions in 3D Virtual Worlds	Keepin' Busy
5	Classification of the Structural Elements of Educational Games	Knowledge Is Power
6	Classification of the Learning Mechanics	Learning The Ropes
7	Classification of the Game Mechanics	The Mechanar
8	Exploration of Example Educational & Leisure Games	Learning From the Best

COURSE ASSESSMENT



Integrated Assessment Tasks

- ✓ Assessment takes place both during and at the end of the course.
- ✓ The intermediate assessment focuses on the Learning Outcomes of each questline.
- ✓ Following completion of each assessment, you will receive Experience Points ('XP').
- ✓ The summative assessment concerns the evaluation of your training experience.

COURSE ASSESSMENT



Overview of the Gamification course assessment tasks

Assessment	Theme	Evaluation	Experience Points
#1	Game-Based Learning and Gamification	Quiz	100 XP
#2	Serious Games genres	Quiz	200 XP
#3	Player Roles	Quiz	350 XP
#4	Activities in 3D Virtual Worlds	Quiz	400 XP
#5	Elements of Serious Games	Quiz	450 XP
#6	Learning Mechanics	Quiz	500 XP
#7	Game Mechanics	Quiz	500 XP
#8	Deconstructing educational games	-	-

COURSE ASSESSMENT



Leaderboard: Experience-Ranking scale

Rank	Experience Points	Completion Rate	Title
#1	≥ 1250 XP	50%	Surveyor
#2	≥ 1500 XP	60%	Learner
#3	≥ 1750 XP	70%	Explorer
#4	≥ 2000 XP	80%	Adventurer
#5	≥ 2250 XP	90%	Champion

The maximum Experience Points is 2.500

RECOMMENDED READING



- ✓ Chou, Y. K. (2019). *Actionable gamification: Beyond points, badges, and leaderboards*. Packt Publishing Ltd.
- ✓ Fogg, B. J. (2009). A behavior model for persuasive design. In *Proceedings of the 4th International Conference on Persuasive Technology* (pp. 1-7).
- ✓ Fullerton, T. (2019). *Game design workshop: a playcentric approach to creating innovative games*. AK Peters/CRC Press.
- ✓ Hamari, J., Koivisto, J., & Sarsa, H. (2014, January). Does gamification work? A literature review of empirical studies on gamification. In *Proceedings of the 47th Hawaii international conference on system sciences* (pp. 3025-3034). IEEE.
- ✓ Kapp, K. M. (2012). *The gamification of learning and instruction: game-based methods and strategies for training and education*. John Wiley & Sons.
- ✓ Lee, J. J., & Hammer, J. (2011). Gamification in education: What, how, why bother?. *Academic Exchange Quarterly*, 15(2), 146.
- ✓ Walz, S. P., & Deterding, S. (Eds.). (2014). *The gameful world: Approaches, issues, applications*. MIT Press.
- ✓ Werbach, K., & Hunter, D. (2015). *The gamification toolkit: dynamics, mechanics, and components for the win*. Wharton School Press.