

Course Unit	Design Documents and Storyboard			Field of study	Game Design			
Bachelor in	Game Design			School	School of Public Management, Communication and Tourism			
Academic Year	2021/2022	Year of study	2	Level	1-2	ECTS credits	6.0	
Туре	Semestral	Semester	2	Code	8309-414-2202-00-21			
Workload (hours)	162	Contact hours	T - TP	30 PL 30 T	c - s -	E - OT	- 0 -	
T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other								
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Name(s) of lecturer(s) Barbara Costa Vilas Boas Barroso, Carlos Sousa Casimiro da Costa

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

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 1. Demonstrate ability to build procedural documents for games pre-production;

 2. Develop the structure of digital games (gameplay and game mechanics);

 3. Master skills for the design and structuring of storyboards;

 4. Understand and employ, in order to magnify the results, the inter-flow between design document and storyboard;

Prerequisites

Before the course unit the learner is expected to be able to: Recognize and use in a practical context the fundamental elements of a game.

Course contents

Elements of game design. The game's industry and the work teams. The game design process. Design documentation. Project methodology. Gameplay styles and design. Mechanics design. User Experience and interface design. Level design. Visual design. Pre-visualization. Art documentation.

Course contents (extended version)

- 1. Elements of game design:
 - Formal;
 - Dramatic;
 - Dynamic
- Dynamic.

 2. The game's industry and the work teams:
 Platforms and game modes;
 Goals and genres;
 The player(s);
 Aesthetics;
 The role of the game designer;
 Team roles and responsabilities.

 3. The game design process:
- The game design process:
 Development stages;
 Documentation;

 - Prototyping;Playtesting;
 - · Pitch.

- Priject methodology:
 Common terminology;
 Components (world, system, content, writing, level, interface);

 - Constraints; "Player-centric" perspective;
- "Player-centric" perspective;

 Additive and subtrative design.

 MDA design;

 Iterative process;

 Variations in the design process.

 5. Gameplay styles and design:

 Gameplay as emergent caracteristic;

 Gameplay and genres;

 Challenges hierarchy;

 Luck, skill, stress, difficulty;

 Actions.

 6. Mechanics design:
- Mechanics design:

 Rules;

 - Emergence and progression;
 Internal economy;
 Common mechanisms;
 Design patterns;

- Design patterns;
 Balance.
 7. UX and interface design:
 Practical, experiential, significant and valuable aspects of interacting with a game;
 Usability for games;
 Interface types;
 Camera;
 HUDs;
 Icons;

 - · Icons;
- Controls.8. Level design:
- Structure; Time;

- Space; Maps. 9. Visual design: The role of concept art;
 - The grammar of concept art;Functionality analysis;
- Point of view.10. Pre-visualization:
 - Storyboards;

07-04-2022

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Course contents (extended version)

- Animatics:
- Vertical slices
- 11. Art documentation:
 Visual treatment;

 - Work pipeline;Considerations on the game dynamics

Recommended reading

- 1. Adams, E., & Dormans, J. (2012). Game mechanics: Advanced game design. Berkeley: New Riders. [ISBN: 9780321820273] 2. Bratwaite, B., & Schreiber, I. (2009). Challenges for game designers. Boston: Charles River Media. [ISBN: 9781584505808] 3. Mitchell, B. L. (2012). Game design essentials. Indianapolis: Wiley & Sons. [ISBN: 9781118159279] 4. Pardew, L. (2005). Beginning Illustration and Storyboarding for Games. Boston: Thomson. [ISBN: 9781592004959] 5. Upton, B. (2017). Situational game design. New York: AK Peters and CRC Press. [ISBN: 9781138031814]

Teaching and learning methods

Lecture method, using different materials, enabling the transmission of structured and continuous knowledge. Interrogative method, systematically questioning the students. Active method, in which students must take the initiative in problem solving and project development in order to allow greater consolidation of knowledge.

Assessment methods

- DISTRIBUTED EVALUATION with Game Jam: (Regular, Student Worker) (Final, Supplementary, Special)

 Development Topics 10% (Module 1: theoretical-pratical exercises solved during the semester (individual).)
 Practical Work 10% (Module 2: analysis work and work on a storyboard (individual).)
 Development Topics 10% (Project developed during Interdisciplinary Week.)
 Projects 25% (M1 + M2: project #1 [design documentation, prototyping, playtesting, assets, pitch] (individual).)
 Projects 10% (M1 + M2: project #2 [project developed during a Game Jam] (group).)
 Projects 35% (M1 + M2: project #3 [capstone project with the other curricular units of the semester] (group).)

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05-04-2022

Language of instruction

05-04-2022

- Portuguese
 English

Electronic validation			
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07-04-2022