

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	2017/2018	Year of study	2	Level	1-2
Type	Semestral	Semester	2	ECTS credits	6.0
Code	8309-414-2202-00-17				
Workload (hours)	162	Contact hours	T -	TP 30	PL 30
			TC -	S -	E -
			OT -	O -	

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

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:

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. Navigation and interface design. Level design. Visual design. Pre-visualization. Art documentation.

### Course contents (extended version)

1. Elements of game design:
  - Formal;
  - Dramatic;
  - 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 responsibilities.
3. The game design process:
  - Development stages;
  - Documentation;
  - Prototyping;
  - Playtesting;
  - Pitch.
4. Project methodology:
  - Common terminology;
  - Components (world, system, content, writing, level, interface);
  - Constraints;
  - "Player-centric" perspective;
  - Additive and subtractive design.
  - MDA design;
  - Blue-sky;
  - Slow boil;
  - Iterative process.
5. Gameplay styles and design:
  - Gameplay as emergent characteristic;
  - Gameplay and genres;
  - Challenges hierarchy;
  - Luck, skill, stress, difficulty;
  - Actions.
6. Mechanics design:
  - Rules;
  - Emergence and progression;
  - Internal economy;
  - Common mechanisms;
  - Design patterns;
  - Balance.
7. Navigation and interface design:
  - Interface types;
  - Camera;
  - HUDs;
  - 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;
  - Animatics;

**Course contents (extended version)**

- 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. Fullerton, T. (2008). Game design workshop, Second Edition: A playcentric approach to creating innovative games. Burlington, MA: Morgan Kaufmann. [ISBN: 978-0240809748]
4. Mitchell, B. L. (2012). Game design essentials. Indianapolis: Wiley & Sons. [ISBN: 9781118159279]
5. Pardew, L. (2005). Beginning Illustration and Storyboarding for Games. Boston: Thomson. [ISBN: 9781592004959]

**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: minimum 8/20 each module - (Regular, Student Worker) (Final, Supplementary, Special)
- Intermediate Written Test - 20% (Module 1: theoretical-practical tests solved individually during the semester.)
- Reports and Guides - 10% (Module 2: individual work of analysis.)
- Practical Work - 10% (Module 2: individual work on a storyboard.)
- Projects - 60% (Module 1 (30%) + Module 2 (30%): development of 3 game design processes: group work.)

**Language of instruction**

1. Portuguese
2. English

**Electronic validation**

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05-06-2018	13-06-2018	13-06-2018	14-06-2018