

COMPUTER AIDED DESIGN II

Degree in Graphical Design

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Code: 11514

Main Scientific Area: Drawing

Lecturer: Pedro Mota Teixeira

Language of Instruction: Portuguese

Regime: S1

Contact Hours: 60h Total Workload: 100h

ECTS: 6,0

Objectives

The course in Computational Design I introduces students to learning two-dimensional representation technology tools, through practical exercises; associated with the idea of providing students a wide range of new imagery solutions in the area of graphic design and multimedia, including vectorial digital image's theoretical and practical concepts.

Learning Outcomes

At the end of the semester the student should master:

- Contemporary digital design (technical and aesthetic) in terms of vector illustration;
- vector drawing tools;
- Ability to draw vector for creating infographics and vector illustration;
- Understand the importance of Computational Design in the general scope of Design.

Course Contents

Vector illustration creation. Data interpretation and the relevance of infographics and vector design in the current context of graphic design. Two-dimensional infographic application of concepts related to graphic expression. Computer drawing exercises using the vector: consolidation of the contents and technologies / tools explored in the previous semester, in the Computational Design Course more specifically, approach to line, shape, volume, color and texture, using vector language created directly from the computer.

Recommended Bibliography

Adobe Creative Team - Adobe Illustrator CC Classroom in a Book (Book CD-ROM);

BAER, Kim - Information Design Workbook: Graphic Approaches, Solutions, and Inspiration plus 30 Case Studies, Massachusetts: Rockport Publishers Inc., 2010. ISBN: 9781592536276

CAIRO, Alberto, Sailing to the Future: Infographics in the Internet Era, North Carolina: Multimedia Bootcamp - University of North Carolina at

Chapel Hill, 2005;

ROAM, Dan - The Back of the Napkin: Solving Problems and Selling Ideas with Pictures, New York: Portfolio, 2008. ISBN: 9781591841999;

TUFTE, Edward R. - Envisioning Information, CT/US: Graphics Press USA, 1990. ISBN: 9780961392116;

TUFTE, Edward R. - The Visual Display of Quantitative Information, CT/US: Graphics Press USA, 2001. ISBN: 9780961392147.

Learning and Teaching Methods

Through vector approach, students acquire skills of theory and practice in the development of digital images Vector. The exercises aim at two distinct approaches:

- The acquisition of global knowledge about the tool and use of advanced drawing tools
- Acquisition of knowledge in global development plan charts infographics. The exercises and the contents are formatted so as to direct the students through a software global "tour" in order to acquire advanced skills in the use of creating and manipulating Vector images.

Assessment Methods

Continuous assessment based on class exercises will target the following parameters:

- Development project
- Compliance with the delivery of work in stipulated timings.
- Interest, participation and intervention.

Attendance and punctuality are key factors for a good performance in the course, as well as for the preparation of future professional life.

Active participation in the classroom makes students take full advantage of the professor and their colleagues.

The final classification is obtained by evaluating all proposed work. Only properly monitored work by the professor, is considered validated.

Exceeded deadlines are penalized. Attendance and punctuality are also considered in the final mark (10%).

In this lecture, it's not allowed the subscription to final exams, as clearly expressed in 9th article of RIAPA. The continuous and periodic evaluation is the only available evaluation method.

Finalists and students with special statutes have access to Special Period Exam that follows the end of the academic year, as expressed in RIAPA.

Final mark improvement exams can be subscribed by students whom attended to the lecture, which means that only students with verified 2/3 classes' frequency are validated to subscribe to this exam.

The exam consists of a proposed work, determined by the teacher of the lecture, and validated by the DRAWING Disciplinary Area. Students must subscribe themselves for the purpose within the stipulated deadlines by the services.

CE - Classroom Exercises = 20%

P1 - 1st Work Proposal = 35%

P2 - 2nd Work Proposal = 35%

P - Attendance and punctuality = 10%