



NAAB International Certification

Appendix 1: Template for Course Descriptions - Electives [limit 1 page per course]

Number & Title of Course (total credits awarded):

ELDGC4&502 - Introduction to Cartographies of the Gaze - Semester - ECTS - Cicle/Profile: - Scientific Area:

Course Description (limit 25 words)

This curricular unit promotes research about diverse ways of perspectival representation, aiming at the optimization and broadening of the use of Perspective as a conceptual instrument.

Course Goals & Objectives (list):

1. To understand the practice of freehand drawing as a privileged means to the embodiment and interpretation of visuality;
2. To develop a broad and plural acknowledgement of perspective representational codes;
3. To develop observational/conceptual/transformational skills through freehand drawing, as a synthesis of visual data and geometrical structuring methods;
4. To be able to interpret critically the diverse pictographic structures regarding visual three-dimensional space;
5. To understand, plan and execute an integrated process of graphical representation, by joining concepts and procedures of geometry, algebra, and computer programming.

Student Performance Criterion addressed (list number and title):

Primary - A.1 Professional Communication Skills; A.2 Design Thinking Skills; Secondary -

Topical Outline (include percentage of time in course spent in each subject area):

Syllabus:

1. Computation / theory and practice

Purposes and reach of digital representation in Architecture

> 6,25% Lecturing

Computation and the computer: the case of shape grammars

> 6,25% Studio Work

2. Drawing / theory

Drawing as the order of architectural thinking

- Drawing and the creative process in Architecture

The observer

- The codes of the body as a defining mark of place and territory, and the body as a inhabitant of architectural space

> 12,5% Lecturing

3. Drawing / theory and practice

Perspectival three-dimensionalities:

- Origins and formulations

- The renaissance perspective paradigm and its evolutions

> 6,25% Lecturing

Drawing of visual three-dimensional space:

- Drawing by visual recall and Drawing with auxiliary device

- Critical analysis and interpretation of the results

> 6,25% Studio Work

4. Geometry / theory and practice

A cartographic interpretation of Perspective:

- The visual sphere as an omnidirectional projective settlement

- The cartographical methods and its properties
- The plurality of perspectival representations
- > 6,25% Lecturing
- The generation of computational cartographic perspectives: geometry, algebra, and programming
- > 43,75% Investigative Work
- 5. Drawing / practice
- Interaction and hybridization of perspective systems in freehand drawing
- Transformations of spatial thinking in the practice of the architect
- > 12,5% Studio Work

Textbooks/Learning Resources:

BARRE, A. e FLOCON, A., 1968, La Perspective Curviligne □ De l'espace visuel à l'image construite, Paris, Flammarion

CORREIA, J. V. et al., 2013, A New Extend Perspective System for Architectural Drawings, Global Design and Local Materialization - 15th International Conference CAAD Futures, Shanghai, pp. 63-75

CORREIA, J. V. et al., 2015, Eyesight Cartographies - unfolding the Visual Sphere, Journal for Geometry and Graphics, Volume 19, Number 1, Heldermann Verlag, pp. 119-132

RAHIM, S. Y., 2018, O Desenhador: Estudos Cognitivos, Artísticos e Fenomenológicos, Lisboa, Edições ex-Libris

RODRIGUES, A. L. M., 2000, O Desenho, Ordem do Pensamento Arquitectónico, Lisboa, Estampa

Offered (semester and year):

2nd Year - Fall;

Faculty assigned (list all faculty assigned during the two academic years prior to the visit):

Ana Cristina dos Santos Guerreiro; Ana Leonor Magalhães Madeira Rodrigues; José Vítor de Almeida Florentino Correia; Luís António dos Santos Romão; Shakil Yussuf Rahim;