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/conceptional/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;