



## NAAB International Certification

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

#### Number & Title of Course (total credits awarded):

ARCH101 - Design Studio I - Semester 1 - ECTS 12 - Cycle/Profile: 1st. Cycle/Core - Scientific Area: AU- Architecture and Urbanism

#### Course Description (limit 25 words)

Introduction, Experimentation on conceptual elements of Architectural Composition: space-limit, light-shadow, atmospheres, matter,time, from abstract to natural contexts, through drawing and 3dmodels.

#### Course Goals & Objectives (list):

1. To acquire Design thinking and Architectural design skills through tectonic (ex. bamboo) and hypogeum (ex. stone, concrete) typologies.
2. To develop professional communication skills through graphical representation, drawings, 3d models, photography, videos, orthogonal projects, critical verbal and written argumentation.
3. To use precedence for analysis and comprehension of architectural paradigmatic cases.
4. To acquire the basis for the use of structural systems through mono-material compositions: bamboo, wood, stone, bricks, concrete.
5. To approach framing elements of an architectural design: site, topography, winds and solar orientation, bioclimatic principles, urban and landscape contexts, framing views, lines of forces.
6. To raise awareness about sustainability and ecological footprint of architectural design from project models to building materials.

#### Student Performance Criterion addressed (list number and title):

Primary - A.2 Design Thinking Skills; A.4 Architectural Design Skills; Secondary - A.1 Professional Communication Skills; A.6 Use of Precedents; B.5 Structural Systems;

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

Studio Design Work with Tutoring: 30%  
Studio Design Independent Work: 40%  
Site Visits: 2.5%  
Lecturing: 10%  
Seminar Sessions: 2.5%  
Critics and Final review: 5%  
Readings and Investigative Work: 10%

#### Prerequisites:

It does not have; It does not have;

#### Textbooks/Learning Resources:

CAMPO BAEZA, Alberto: Principia Arquitectonica, Caleidoscópico, Lisboa, 2013  
PALLASMAA Juhani: Habitar, Editorial GG, Barcelona, 2016  
PINTO, Jorge Cruz: A Caixa, Metáfora e Arquitectura, Edições ACD + FAUTL, Lisboa, 2007  
SIZA, Alvaro: Imaginar a Evidência, Edições 70, Coimbra, 2012  
ZUMTHOR, Peter: Atmosferas, Editorial GG, Barselona, 2006

#### Offered (semester and year):

1st Year - Fall;

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

Ana Cristina Oliveira Vasconcelos; Carla Sofia Alexandrino Pereira Morgado; Francisco José de Almeida dos Santos e Agostinho; Joana Raquel de Sousa Basto Malheiro; João Francisco Freitas Figueira da Silva; Jorge Filipe Ganhão da Cruz Pinto; Ljiljana Cavic; Pedro Miguel Pinheiro Alves Cabrito; Ana Cristina Oliveira Vasconcelos; Carla Sofia Alexandrino Pereira Morgado; Francisco José de Almeida dos Santos e Agostinho; Joana Raquel de Sousa Basto Malheiro; João Francisco Freitas Figueira da Silva; Jorge Filipe Ganhão da Cruz Pinto; Ljiljana Cavic; Pedro Miguel Pinheiro Alves Cabrito;