



## NAAB International Certification

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

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

TECH301 - Building Technologies - Semester 5 - ECTS 6 - Cycle/Profile: 1st. Cycle/Core - Scientific Area: TAUD- Technologies of Architecture, Urbanism and Design

#### Course Description (limit 25 words)

Knowledge of concepts, techniques, and application methods of a multidisciplinary nature, related to the process of the construction and renewal of buildings

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

Analysis of each construction component of the building  
Understanding the constructive solutions existing in a building  
Empower students with the necessary technical knowledge to propose 'primary elements' and 'secondary elements' solutions in building construction  
Empower students to design detailed technical solutions for the diverse components of the building

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

Primary - B.7 Building Envelope Systems and Assemblies; B.8 Building Materials and Assemblies; Secondary - B.3 Codes and Regulations; B.4 Technical Documentation;

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

Lecturing □ 30%  
Studio Work / Tutoring □ 30%  
Critics □ 10%  
Design independent work □ 30%

#### Prerequisites:

TECH112 - Building Materials; TECH202 - Physics and New Materials for Architecture; TECH112 - Building Materials; TECH202 - Physics and New Materials for Architecture; TECH112 - Building Materials; TECH202 - Physics and New Materials for Architecture;

#### Textbooks/Learning Resources:

Allen, E. How buildings work The natural order of architecture. 2005  
Allen, E.; Rand, P. Architectural Detailing. Function, Constructability, Aesthetics. 2016  
Beinhauer, P. Atlas de Detalhes Construtivos nova edição. 2012  
Beinhauer, P. Atlas de Detalhes Construtivos Reabilitação. 2013  
Chudley, R. (). Manual de Construcción de Edificios (3a Edición Revisada y Ampliada). 2017

#### Offered (semester and year):

3rd Year - Fall;

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

Alexandrino José Basto Diogo; Carlos Filipe Chambel Duarte; Francisco Manuel Camarinhas Serdoura; Luísa Maria da Conceição dos Reis Paulo; Maria João Bravo Lima Nunes Delgado; Alexandrino José Basto Diogo; Carlos Filipe Chambel Duarte; Francisco Manuel Camarinhas Serdoura; Luísa Maria da Conceição dos Reis Paulo; Maria João Bravo Lima Nunes Delgado; Alexandrino José Basto Diogo; Carlos Filipe Chambel Duarte; Francisco Manuel Camarinhas Serdoura; Luísa Maria da Conceição dos Reis Paulo; Maria João Bravo Lima Nunes Delgado;

